

## گروه کالا صنعتی

### بروشور گیربکس سایکلو

برند: سومیتومو SUMITOMO

**Sumitomo**  
Drive Technologies



Web-site: [www.kalasanati.com](http://www.kalasanati.com)



Email: [info@kalasanati.com](mailto:info@kalasanati.com)

## WORLDWIDE LOCATIONS

### Sumitomo Machinery Corporation of America Headquarters & Manufacturing

4200 Holland Boulevard  
Chesapeake, VA 23323  
Tel: +1-757-485-3355 • 1-800-SMCYCL0  
Fax: +1-757-485-7490

www.sumitomodrive.com  
E-mail: customer\_service@suminet.com

#### U.S. Sales and Support

Chicago (Midwest)  
Sumitomo Machinery Corporation of America  
175 West Lake Drive  
Glendale Heights, IL 60139  
Tel: +1-630-732-0200 • 1-800-SMCYCL0  
Fax: +1-630-752-0208

Los Angeles (West)  
Sumitomo Machinery Corporation of America  
2375 Railroad Street  
Corona, CA 92880-5411  
Tel: +1-951-340-4100 • 1-800-SMCYCL0  
Fax: +1-951-340-4108

Canada  
Toronto (East)  
SM Cyclo of Canada, Ltd.  
1065 South Service Road, West  
Oakville, Ontario, Canada L6L 6K3  
Tel: +1-905-469-1050 • Fax: +1-905-469-1055

Vancouver (West)  
SM Cyclo of Canada, Ltd.  
740 Chester Road, Anacis Island, Delta  
B.C., Canada V3M 6J1  
Tel: +1-604-525-5403 • Fax: +1-604-525-0879

Montreal  
SM Cyclo of Canada, Ltd.  
3843 Blvd. Daniel Johnson  
Laval, Quebec, Canada H7P 5Z7  
Tel: +1-450-486-8808 • Fax: +1-450-686-8000

#### World Headquarters

Japan  
Sumitomo Heavy Industries, Ltd.  
Power Transmission & Control Group  
ThakPark Tower, 1-1, Otsuki 2-chome,  
Shinagawa-ku, Tokyo 141-0025 Japan  
Tel: +81-307-737-1111 • Fax: +81-368-66-5160



#### Mexico

Monterrey  
SM Cyclo de Mexico, S.A. de C.V.  
Av. Desarrollo No. 541  
Parque Industrial Fina  
Guadalupe, N.L., Mexico CP 97114  
Tel: +52-81-8144-5130 • Fax: +52-81-8144-5130 ext. 3109

Mexico City  
SM Cyclo de Mexico, S.A. de C.V.  
Privada Coyula No. 59-B Bto Colonia  
Industrial Vallejo  
Delegacion Ascasoapalco, DF Mexico 02100  
Tel: +52-55-2282-8700

Guadalajara  
SM Cyclo de Mexico S.A. de C.V. Calle  
Bono No. 2005, Bodega 4 Parque  
Alamo Industrial Tlaquepaque, JAL.  
Mexico 44490  
Tel: +52-33-3675-4923

#### Brazil

São Paulo  
SM Cyclo Redutores do Brasil Comercio Ltda. Av.  
Mangabeira de São Vicente, 587 - Cj. 10 Barra Funda -  
CEP 01139-001  
São Paulo, Brazil  
Tel: +55-11-55385-3600 • Fax: +55-11-5585-3600

#### Chile

Santiago  
SM Cyclo de Chile Ltda. San  
Pablo 3507  
Comuna de Quinta Normal - Santiago, Chile  
Tel: +56-2-2892-7000 • Fax: +56-2-2892-7001

Antofagasta  
SM Cyclo de Chile Ltda. Calle E.  
Manzana N2, Sillón 1  
Sector La Negra, Antofagasta, Chile  
Tel: +56-5-25256-1611 • Fax: +56-5-25256-1616

Concepción  
SM Cyclo de Chile Ltda.  
Camino a Coronel Km 10, #3380, Módulo 2-A Casapue,  
San Pedro de la Paz - Concepción, Chile  
Tel: +56-4-1246-9806 • Fax: +56-4-1246-9808

#### Argentina

Buenos Aires  
SM Cyclo de Argentina SA Ing.  
Delamini E236  
Area de Promoción el Triangulo, Partido Malvinas Argentinas Gral.  
Bovis, Buenos Aires, Argentina B1415AGD  
Tel: +54-3327-454095 • Fax: +54-3327-454099

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Sumitomo Drive Technologies

Sumitomo Drive Technologies  
Always on the Move

# Cyclo® 6000 Speed Reducers



Speed Reducers

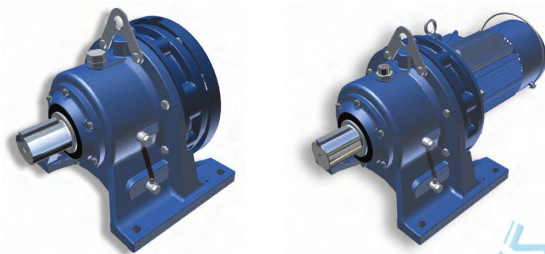
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Catalog 03.601.50.010



## Cyclo® 6000

Superior design, powerful performance



► The Cyclo® 6000 is also available as an inline Gearmotor

Use our online product configurator to build a Cyclo® to fit your application. See inside back cover for further details. Configure your Cyclo® today at [www.sumitomodrive.com/configurator](http://www.sumitomodrive.com/configurator)



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**Cyclo® BBB4**  
Right Angle, Spiral Bevel Gearbox with Cyclo® Reducer Input.

**Cyclo® BBB5**  
Right Angle, Spiral Bevel Gearbox with Cyclo® Reducer Input.

**Hyponic®**  
Features all-steel hypoid gear design, maintenance-free grease lubrication and high efficiency operation.

**Cyclo® HBB**  
Parallel Shaft, Helical Gearbox with Cyclo® Reducer Input; features keyless, steel Taper-Grip® Bushing for easy mounting.

**HSM**  
Helical Shaft Mounted Speed Reducer available with CEMA Screw Conveyor Drive Option.

**Paramax® 9000**  
Right Angle and Offset Parallel Industrial Gearboxes in Universal Housing.

**Trying to select a drive?  
Need more technical specifications?  
Need pricing?**



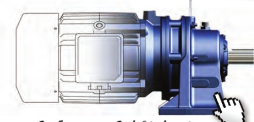
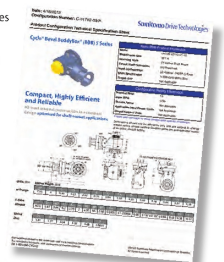
Sumitomo Drive Technologies' online product Configurator streamlines the selection process, enabling you to build our power transmission products for your specific application\*.

Available 24 hours a day, 7 days a week, registered users quickly receive results that include:

- Download 2D and 3D CAD files
- Product literature
- Technical specification sheet
- Product ratings
- Request for quote\*\*
- Quotations\*\*

This unique interactive tool is one more reason Sumitomo Drive Technologies is the world's premier power transmission and control solutions provider.

\* Not all products are available for configuration  
\*\* Not available for all markets.



Configure your Cyclo® today at [www.sumitomodrive.com/Configurator](http://www.sumitomodrive.com/Configurator)

# Speed Reducers

► Cyclo® 6000 boasts an expanded range of standard sizes and ratings. Use this chart to select a new Cyclo® 6000 when replacing Cyclo® series 3000 and 4000 models.

## CYCLO® Frame Size Cross Reference

| SERIES |      |      |
|--------|------|------|
| 3000   | 4000 | 6000 |
|        |      | 6060 |
| 3075   | 4075 | 6065 |
|        |      | 6070 |
| 3085   | 4085 | 6075 |
|        |      | 6080 |
|        |      | 6085 |
| 3090   | 4090 | 6090 |
| 3095   | 4095 | 6095 |
| 3097   | 4097 | 6095 |
| 3100   | 4100 | 6100 |
| 3105   | 4105 | 6105 |
| 310H   | 410H | 610H |
|        |      | 6110 |
|        |      | 6115 |
| 3110   | 4110 | 6120 |
| 3115   | 4115 | 6125 |
| 311H   | 4125 | 612H |
| 3140   | 4130 | 6130 |
| 3145   | 4135 | 6135 |
|        |      | 6140 |
| 3155   | 4145 | 6145 |
| 315H   | 4155 | 614H |
| 3160   | 4160 | 6160 |
| 3165   | 4165 | 6165 |
| 316H   | 416H | 616H |
| 3170   | 4170 | 6170 |
| 3175   | 4175 | 6175 |
| 3180   | 4180 | 6180 |
| 3185   | 4185 | 6185 |
| 3190   | 4190 | 6190 |
| 3195   | 4195 | 6195 |
| 3205   | 4205 | 6205 |
| 3215   | 4215 | 6215 |
| 3225   | 4225 | 6225 |
| 3235   | 4235 | 6235 |
| 3245   | 4245 | 6245 |
| 3255   | 4255 | 6255 |
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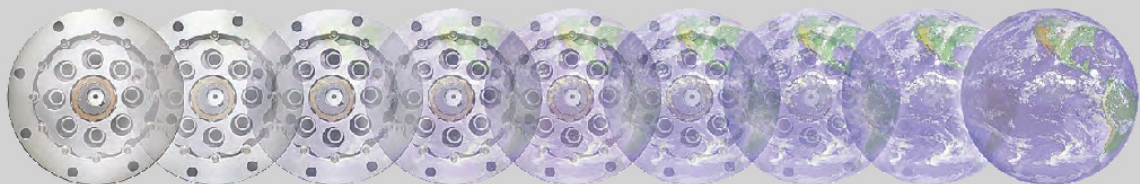
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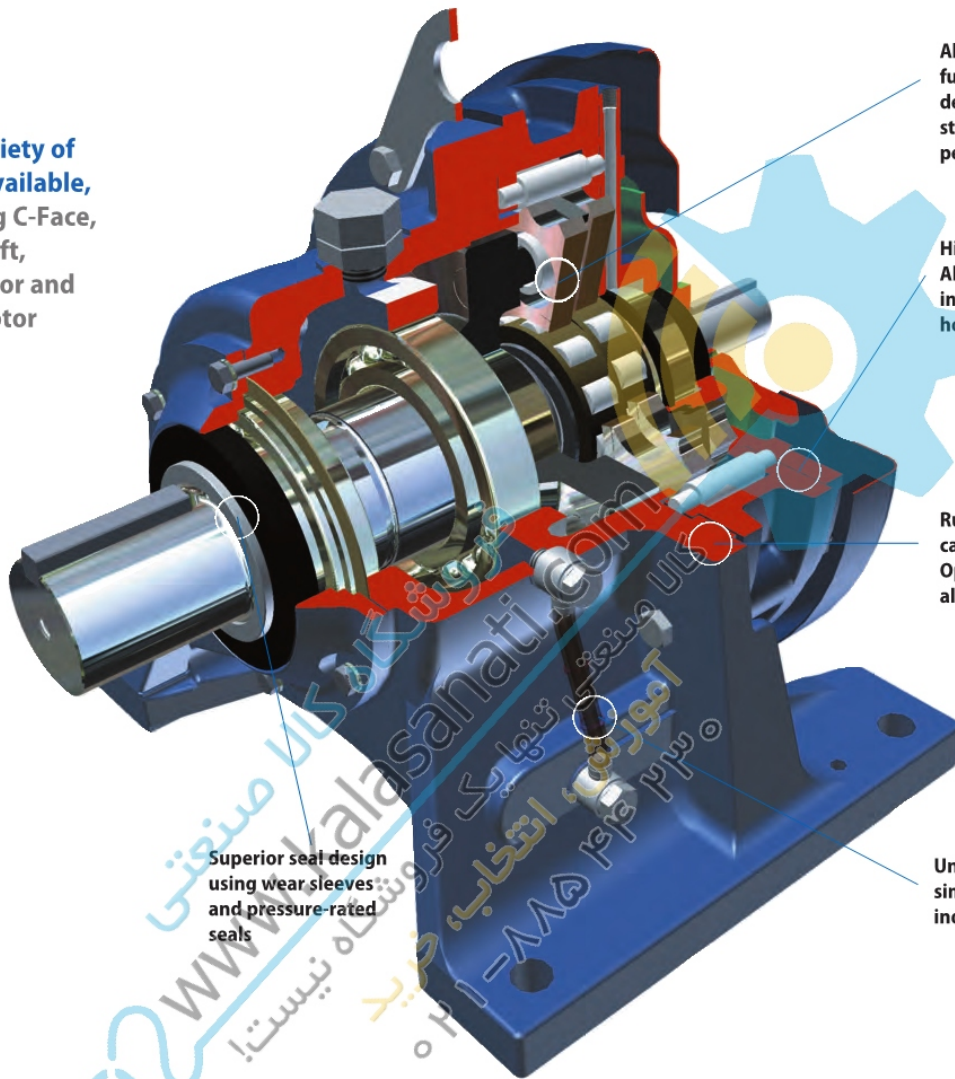
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# Cyclo® 6000

- Wide variety of inputs available, including C-Face, Free-Shaft, Gearmotor and Brakemotor



All rotating components are fully hardened, vacuum degassed bearing grade steel, for consistent, reliable performance

High power density. All reduction contained in compact ring gear housing

Rugged, shock-resistant cast iron housing. Optional ductile iron also available

Superior seal design using wear sleeves and pressure-rated seals

Unique oil sight gauge for simple, visible lubrication indication



## Unmatched Reliability, Exceptional Performance

- Cyclo® speed reducers and gearmotors are designed to withstand shock loads exceeding 500% of their ratings





## Highly Reliable, Torque Dense Cycloidal Speed Reducers

### Product Description

Sumitomo Cyclo® speed reducers and gearmotors are the **premier in-line drives**. The revolutionary Cyclo® design provides **quiet, efficient and reliable performance** exceeding that of involute tooth gear designs. The key to Cyclo®'s matchless performance and reliability is that 67% of the reduction components are in contact at all times, compared to geared designs that use only limited tooth contact. Unlike geared designs, the Cyclo®'s reduction components operate in compression rather than shear, which results in **exceptionally rugged and shock resistant performance**. The Cyclo® technology coupled with innovative product options and accessories offer the most extensive range of application solutions available.

### Features & Benefits

- **Cycloidal speed reduction technology**
  - ~ Quiet, efficient and reliable operation with high torque density and compact size
- **Modular design**
  - ~ Interchangeable cast iron housings in foot, flanged or face mount configurations
- **Universal mounting arrangements**
  - ~ Available free-shaft, quill hollow shaft, C-face, shovel base, and top-mount inputs
- **Internal components manufactured from hardened, vacuum-degassed, bearing grade steel**
  - ~ Minimal vibration, low noise, low backlash and extended operational life
- **The best product warranty**
  - ~ The 24 month warranty backs up the superb Cyclo® product reputation

### Specifications

|                         |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| <b>Sizes:</b>           | 23 sizes (5lbs to 5000lbs)                                                        |
| <b>Torque Rating:</b>   | 55 to 603,000 lb in                                                               |
| <b>HP Rating:</b>       | .10 to 235 HP                                                                     |
| <b>Ratio Range:</b>     | 3:1 to 149:1 (single)<br>104:1 to 7569:1 (double)<br>8041:1 to 658,503:1 (triple) |
| <b>Mounting:</b>        | Foot, Flange, Face Mount                                                          |
| <b>Motor Standards:</b> | NEMA, IEC, JIS, UL, CSA, CE                                                       |

- ▶ **Sumitomo's Cyclo® 6000 is a highly reliable, torque dense cycloidal speed reducer and gearmotor**



#### Simple, Compact Design

- Rugged Forged Output Shaft
- Universal Mounting
- C-Face, Shovel Base & Top Mount Options



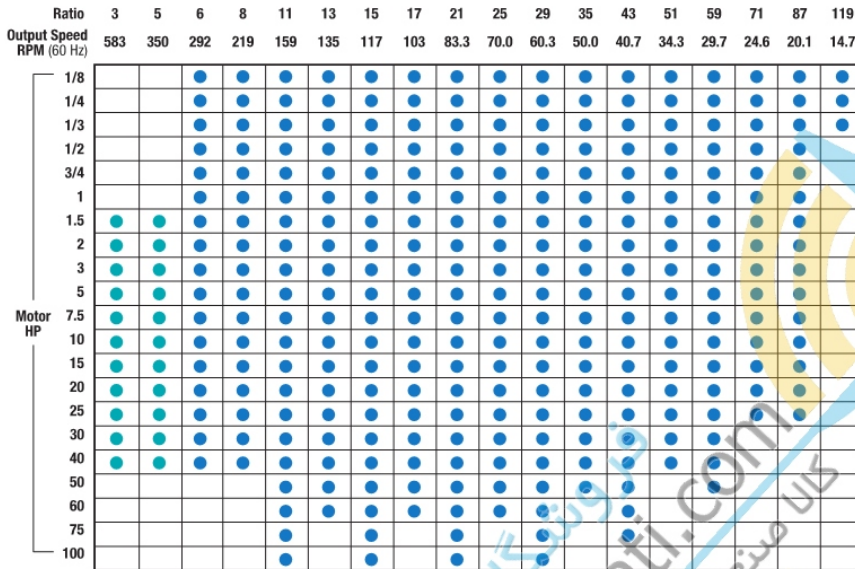
#### Applications

- Conveyors
- Food Machinery
- Mixers
- Automotive Plants
- Recycling Machines
- Poultry Plants
- Sawmills and Wood Mills
- Wastewater Treatment
- Steel Mills
- Construction Equipment
- Paper Mills
- Processing Plants

# Product Range (Standard Motor and Reducer Combinations)

## Single Reduction Ratios 3 – 119

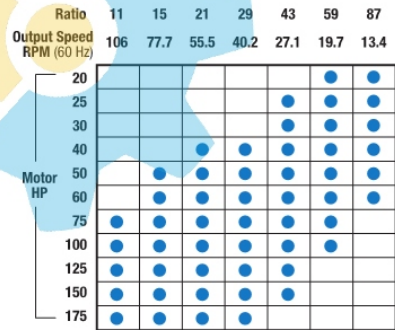
Combinations with 1750 RPM input speed



● Ratios 3 and 5 are planetary

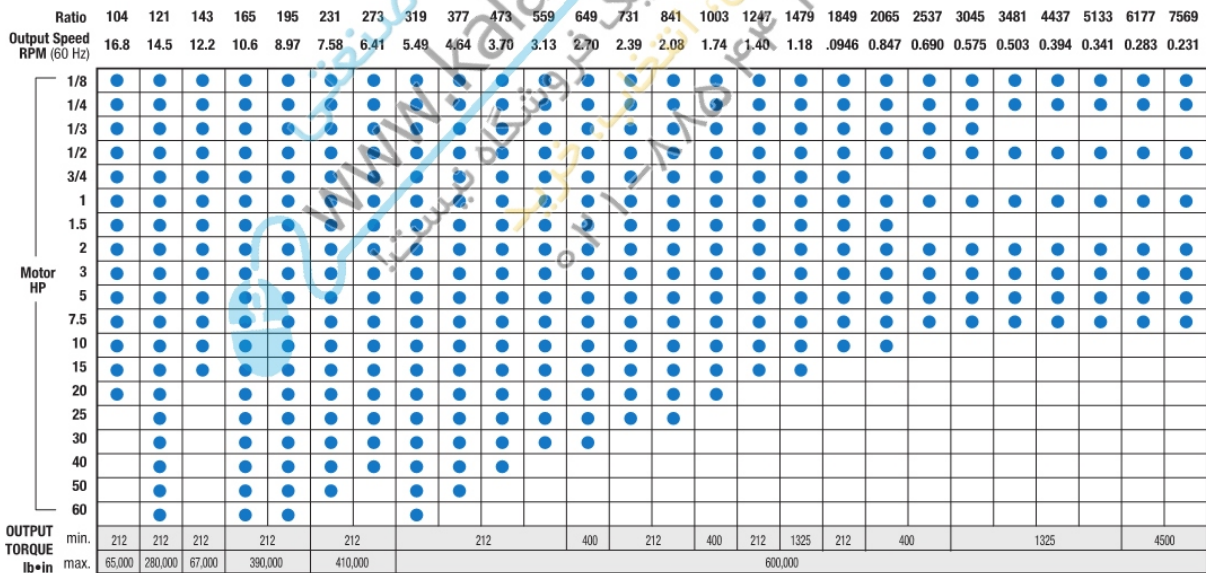
## Ratios 11 – 87

Combinations with 1165 RPM input speed



## Double Reduction Ratios 104 – 7569

Combinations with 1750 RPM input speed





**How do I select a Cyclo® speed reducer or gearmotor?**

Selection is based on the actual horsepower and/or torque requirements at the output shaft. The Cyclo® speed reducer has particularly high efficiencies over a wide range of reduction ratios, which frequently permits the use of reduced input power requirements (smaller HP motor) without sacrificing output shaft torque. The selection procedures in this catalog will guide you in choosing the most efficient reducer for your application.

**What information do I need to get started in the selection process?**

To select the proper reducer for your application, you will need to know:

- Application: type of driven machine
- Hours of operation per day
- Motor horsepower (HP) and speed (RPM)
- Mounting position

If there are any special environmental factors or operation requirements, they must also be noted. This information will be important in determining the Service Factor of your application.

**What are Service Factors and how are they used?**

In general, reducers and gearmotors are rated for the specific conditions and operating requirements of the application by the use of AGMA-defined Service Factors. There are three AGMA load classifications for reducers: uniform (U), moderate shock (M) and heavy shock (H) (page 2.3) The Service Factors are used in the product selection process to adjust for the specific conditions and operating requirements of your application.

**What do I do if my application has particularly severe operating conditions?**

The standard ratings for Cyclo® are based on 10-hour daily service under conditions of uniform loads (equivalent to AGMA service factor 1.0). By following the product selection process, you will determine and apply the Service Factors to compensate for the severe operating conditions.

**How can I be sure that the reducer can withstand periodic excessive overloads?**

Cyclo® Speed Reducers provide 500% momentary intermittent shock load capacity. For applications with shock loads greater than 500%, consult an SMA Application Engineer.

**What are the standard input speeds?**

In general terms, the speeds are 1750 and 1165 RPM. The selection tables in this catalog are based on 1750, 1165, 870, 580, and 50 RPM. When non-standard input speeds are used, the horsepower and torque ratings also vary.

**What thermal capacity limitations does the Cyclo® have?**

The Cyclo® speed reducer, by virtue of its smooth, almost frictionless operation (unlike traditional helical gears), has a thermal rating that far exceeds its mechanical capacity and all but eliminates the conventional limitations due to heat.

**Common Configurations**

Single Reduction,  
Horizontal Flange Mount  
with Hollow Shaft Input



Single Reduction, Flange Mount  
with C-Face Adapter



Single Reduction, V-Flange Mount  
with C-Face Adapter



Double Reduction with  
C-Face Adapter

## Standard Specifications

|                           |                               |                                                                                      |
|---------------------------|-------------------------------|--------------------------------------------------------------------------------------|
| <b>Reducer</b>            | <b>Reduction:</b>             | Internal planetary gear mechanism with trochoidal curved tooth profile.              |
|                           | <b>Lubrication:</b>           | Grease or oil lubricated models available.                                           |
|                           | <b>Seals:</b>                 | Nitrile material, dual lipped, double output seals available.                        |
|                           | <b>Material:</b>              | Rugged cast iron or ductile housings.                                                |
|                           | <b>Paint Color:</b>           | Blue, Munsell color number 6.5PB 3.6/8.2                                             |
| <b>Ambient Conditions</b> | <b>Installation Location:</b> | Indoors (Minimal dust and humidity)                                                  |
|                           | <b>Ambient Temperature:</b>   | 14°~104° F (-10° ~ 40° C)                                                            |
|                           | <b>Ambient Humidity:</b>      | Under 85%                                                                            |
|                           | <b>Elevation:</b>             | Under 3,281 ft. (1000 meters)                                                        |
|                           | <b>Atmosphere:</b>            | Well ventilated location, free of corrosive gases, explosive gases, vapors and dust. |

### Shaft Rotation

On single reduction Cyclo® speed reducers, ratios 3 through 119, the slow speed shaft rotates in a reverse direction to that of the high speed shaft.

On double reduction units, ratios 104 through 7569, both the high speed and the slow speed shaft rotate in the same direction.

### Input Speeds

In general terms, the standard input speeds of single reduction units are 1750, 1165, 875, 580, and 50 RPM. When non-standard input speeds are used, the horsepower and torque ratings will also vary.

### Thermal Capacity

The Cyclo® speed reducer's smooth, almost frictionless operation all but eliminates the conventional limitations due to heat. In all sizes, Cyclo® speed reducers have thermal ratings that exceed their mechanical capacity.

# 2 How to Select

How to  
Select

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# How to Select a Speed Reducer

## Step 1: Collect data about your application

Before starting you need to know the:

- **Application** (e.g. Conveyor, Mixer, etc.)
- **Hours of Operation** per day
- **Motor Horsepower (HP) and Input Speed (RPM)**
- **Desired Output Speed**
- **Mounting Position and Style**
- **Overhung or Thrust Loads**
- **Ambient Conditions**

## Step 2: Select a Frame Size

**2A:** Find the **Load Classification** of your application in the *AGMA Load Classification Table* on page 2.4.

**2B:** Find the recommended **Service Factor** using the *Recommended Reducer Service Factor Table* on the right.

**2C:** Determine the **Selection Horsepower** by multiplying the Motor Horsepower by the Service Factor.

**2D:** Select a **Frame Size** from the Reducer Selection Tables on pages 3.1–3.35 by matching both the Selection Horsepower and Desired Output Speed (RPMs) to a Frame Size model number.

## Step 3: Select a Housing Style and Mounting Position

Select a Housing Style from chart on page 2.5.

## Step 4: Verify Dimensions

Use the Dimensions Information on pages 4.1–4.97 to verify that the selected Frame Size is appropriate.

## Step 5: Choose Options

The following options may apply:

- **C-Face Adapter**
- **Hollow Quill Adapter**
- **Top Motor Mount**
- **Shovel Base**

Please see the Cyclo® price list, or visit our website at [www.sumitomodrive.com](http://www.sumitomodrive.com) for other available modifications.

## Step 6: Configure a Model Number

Go to page 2.6 to configure a model number.

**Note:** You will use the information you gather from the procedure on this page to Configure a Model Number.



The Service Factor table below presents both AGMA standard service factors and Cyclo® service factors. Cyclo® service factors are smaller than AGMA, based on the Cyclo® strength and performance experience.

If your application requires AGMA specified service factors, then the AGMA value should be used. Otherwise, the Cyclo® service factor should be used.

### Service Factors

|                                            |                               | Load Classifications |             |                |             |             |             |
|--------------------------------------------|-------------------------------|----------------------|-------------|----------------|-------------|-------------|-------------|
| Prime Mover                                | Service Duration              | Uniform              |             | Moderate Shock |             | Heavy Shock |             |
|                                            |                               | AGMA                 | Cyclo®      | AGMA           | Cyclo®      | AGMA        | Cyclo®      |
| Electric Motor                             | 1/2 hr. per day (Occasional)  | 0.50                 | <b>0.50</b> | 0.80           | <b>0.80</b> | 1.25        | <b>1.20</b> |
|                                            | 3 hrs. per day (Intermittent) | 0.80                 | <b>0.80</b> | 1.00           | <b>1.00</b> | 1.50        | <b>1.35</b> |
|                                            | Up to 10 hrs. per day         | 1.00                 | <b>1.00</b> | 1.25           | <b>1.20</b> | 1.75        | <b>1.50</b> |
|                                            | 24 hrs. per day               | 1.25                 | <b>1.20</b> | 1.50           | <b>1.35</b> | 2.00        | <b>1.60</b> |
| Multi Cylinder Internal Combustion Engine  | 1/2 hr. per day (Occasional)  | 0.80                 | <b>0.80</b> | 1.00           | <b>1.00</b> | 1.50        | <b>1.35</b> |
|                                            | 3 hrs. per day (Intermittent) | 1.00                 | <b>1.00</b> | 1.25           | <b>1.20</b> | 1.75        | <b>1.50</b> |
|                                            | Up to 10 hrs. per day         | 1.25                 | <b>1.20</b> | 1.50           | <b>1.35</b> | 2.00        | <b>1.60</b> |
|                                            | 24 hrs. per day               | 1.50                 | <b>1.35</b> | 1.75           | <b>1.50</b> | 2.25        | <b>1.70</b> |
| Single Cylinder Internal Combustion Engine | 1/2 hr. per day (Occasional)  | 1.00                 | <b>1.00</b> | 1.25           | <b>1.20</b> | 1.75        | <b>1.50</b> |
|                                            | 3 hrs. per day (Intermittent) | 1.25                 | <b>1.20</b> | 1.50           | <b>1.35</b> | 2.00        | <b>1.60</b> |
|                                            | Up to 10 hrs. per day         | 1.50                 | <b>1.35</b> | 1.75           | <b>1.50</b> | 2.25        | <b>1.70</b> |
|                                            | 24 hrs. per day               | 1.75                 | <b>1.50</b> | 2.00           | <b>1.60</b> | 2.50        | <b>1.80</b> |

### Determine Selection Horsepower (HP)

$$\text{Motor HP} \times \text{Service Factor} = \text{Selection HP}$$

Example: 10 Motor HP  $\times$  1.25 Service Factor = 12.5 Selection HP

### Select a Frame Size

**1** Match your OUTPUT RPM (or RATIO)...

| Output RPM Ratio       | 583<br>3 | 350<br>3 | 292<br>6 | 219<br>8 | 159<br>11 | 135<br>13 | 117<br>15 | 103<br>17 | 83.3<br>21 | FRAME SIZE |
|------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|
| Input HP               | 20.2     | 20.2     | 20.3     | 20.3     | 20.3      | 20.3      | 20.3      | 16.1      | 14.8       | 6145       |
| Output Torque (in-lbs) | 2061     | 3469     | 5560     | 7650     | 9030      | 10000     | 9370      | 10500     | 10500      | 614H       |
| Overhung Load (lbs)    | 1554     | 1643     | 2170     | 2430     | 2470      | 2580      | 2710      | 2880      | 2880       |            |
| Input HP               | 27.2     | 27.2     | 26.4     | 26.4     | 26.4      | 25.1      | 17.6      | 17.3      |            | 6160       |
| Output Torque (in-lbs) | 2789     | 4654     | 7230     | 9900     | 11800     | 12900     | 10200     | 12400     |            |            |
| Overhung Load (lbs)    | 1702     | 2019     | 2400     | 2700     | 2800      | 2900      | 3160      | 3350      |            |            |
| Input HP               | 32.3     | 32.3     | 37.0     | 37.0     | 37.0      | 37.0      | 37.0      | 21.6      |            | 6165       |
| Output Torque (in-lbs) | 3322     | 5530     | 7898     | 10335    | 12000     | 13000     | 10900     | 15500     |            | 616H       |
| Overhung Load (lbs)    | 1686     | 1998     | 2400     | 2600     | 2600      | 2600      | 2600      | 3310      |            |            |
| Input HP               | 37.0     | 37.0     | 40.4     | 40.4     | 40.4      | 40.4      | 40.4      | 26.2      |            | 6170       |
| Output Torque (in-lbs) | 3798     | 6335     | 8914     | 11914    | 13800     | 14900     | 13000     | 17300     |            |            |
| Overhung Load (lbs)    | 1906     | 2261     | 2400     | 2600     | 2600      | 2600      | 2600      | 3310      |            |            |
| Input HP               | 40.4     | 40.4     | 47.2     | 47.2     | 47.2      | 43.5      | 41.1      | 32.3      |            | 6175       |
| Output Torque (in-lbs) | 4141     | 6914     | 9620     | 12620    | 14600     | 15800     | 13400     | 18200     |            |            |
| Overhung Load (lbs)    | 1906     | 2261     | 2400     | 2600     | 2600      | 2600      | 2600      | 3310      |            |            |
| Input HP               | 47.2     | 47.2     | 52.3     | 52.3     | 52.3      | 52.3      | 52.3      | 40.3      |            | 6180       |
| Output Torque (in-lbs) | 4830     | 8030     | 11000    | 14000    | 16000     | 17000     | 14000     | 19000     |            |            |
| Overhung Load (lbs)    | 2000     | 2300     | 2400     | 2600     | 2600      | 2600      | 2600      | 3310      |            |            |
| Input HP               | 52.3     | 52.3     | 58.3     | 58.3     | 58.3      | 58.3      | 58.3      | 47.2      |            | 6185       |
| Output Torque (in-lbs) | 5330     | 8830     | 12000    | 15000    | 17000     | 18000     | 15000     | 20000     |            |            |
| Overhung Load (lbs)    | 2100     | 2400     | 2400     | 2600     | 2600      | 2600      | 2600      | 3310      |            |            |

**2** ...to your SELECTION HP...

**3** ...to find your FRAME SIZE

If Overhung or Axial Load are present, any Overhung or Axial Load must be checked against the capacity of the selection.



For special circumstances in selecting a Frame Size such as:

- Overhung Load
- Axial Loads
- Shock Loading

Consult Technical Information, pages 5.6–5.13.

# AGMA Load Classifications

## TYPE OF APPLICATION TYPE OF LOAD

|                                           |   |
|-------------------------------------------|---|
| Agitators                                 |   |
| Pure liquids                              | U |
| Liquids and solids                        | M |
| Variable-density liquids                  | M |
| Blowers                                   |   |
| Centrifugal                               | U |
| Lobe                                      | U |
| Vane                                      | U |
| Brewing and Distilling                    |   |
| Bottling machinery                        | U |
| Brew kettles, cont. duty                  | U |
| Cookers, cont. duty                       | U |
| Mash tubs, cont. duty                     | U |
| Scale hopper, frequent starts             | M |
| Can Filling Machines                      | U |
| Cane Knives                               | M |
| Car Dumpers                               | H |
| Car Pullers                               | U |
| Clarifiers                                | U |
| Classifiers                               | M |
| Clay Working Machinery                    |   |
| Brick press                               | H |
| Briquette machine                         | H |
| Clay working machinery                    | M |
| Pug mill                                  | M |
| Compressors                               |   |
| Centrifugal                               | U |
| Lobe                                      | M |
| Reciprocating, multi-cylinder             | M |
| Reciprocating, single-cylinder            | H |
| Conveyors — Uniformly Loaded or Fed       |   |
| Apron                                     | U |
| Assembly                                  | U |
| Belt                                      | U |
| Bucket                                    | U |
| Chain                                     | U |
| Flight                                    | U |
| Oven                                      | U |
| Screw                                     | U |
| Conveyors — Heavy Duty, Not Uniformly Fed |   |
| Apron                                     | M |
| Assembly                                  | M |
| Belt                                      | M |
| Bucket                                    | M |
| Chain                                     | M |
| Flight                                    | M |
| Live roll oven                            | M |
| Reciprocating                             | H |
| Screw                                     | M |
| Shaker                                    | H |
| Cranes (Except for Dry Dock Cranes)       |   |
| Main hoists                               | U |
| Bridge travel                             | S |
| Trolley travel                            | S |
| Crusher                                   |   |
| Ore                                       | H |
| Stone                                     | H |
| Sugar                                     | M |
| Dredges                                   |   |
| Cable reels                               | M |
| Conveyors                                 | M |
| Cutter head drives                        | H |
| Jig drives                                | H |
| Maneuvering winches                       | M |
| Pumps                                     | M |
| Screen drive                              | H |
| Stackers                                  | M |
| Utility winches                           | M |
| Dry Dock Cranes                           | S |
| Elevators                                 |   |
| Bucket, uniform load                      | U |
| Bucket, heavy load                        | M |
| Bucket, cont.                             | U |
| Centrifugal discharge                     | U |
| Escalators                                | U |
| Freight                                   | M |
| Gravity discharge                         | U |
| Man lifts                                 | S |
| Passenger                                 | S |
| Extruders (Plastics)                      |   |
| Blow molders                              | M |
| Coating                                   | U |
| Film                                      | U |
| Pipe                                      | U |
| Pre-plasticizers                          | M |
| Rods                                      | U |
| Sheet                                     | U |
| Tubing                                    | U |
| Fans                                      |   |
| Centrifugal                               | U |
| Cooling towers                            | S |
| Forced draft                              | S |
| Induced draft                             | M |
| Large (mine, etc.)                        | M |

## TYPE OF APPLICATION TYPE OF LOAD

|                                            |   |
|--------------------------------------------|---|
| Large (industrial)                         | M |
| Light (small diameter)                     | U |
| Feeders                                    |   |
| Apron                                      | M |
| Belt                                       | U |
| Disc                                       | U |
| Reciprocating                              | H |
| Screw                                      | M |
| Food Industry                              |   |
| Beet slicer                                | M |
| Cereal cooker                              | U |
| Dough mixer                                | M |
| Meat grinders                              | M |
| Generators (Not Welding)                   | U |
| Hammer Mills                               | H |
| Hoists                                     |   |
| Heavy duty                                 | H |
| Medium duty                                | M |
| Skip                                       | M |
| Laundry Washers — Reversing                | M |
| Laundry Tumblers                           | M |
| Line Shaft                                 |   |
| Drive processing equipment                 | M |
| Light                                      | U |
| Other line shafts                          | U |
| Lumber Industry                            |   |
| Barkers — hydraulic and mechanical         | S |
| Burner conveyor                            | M |
| Chain Saw and Drag Saw                     | H |
| Chain transfer                             | H |
| Craneway transfer                          | H |
| De-barking drum                            | S |
| Edger feed                                 | M |
| Gang feed                                  | H |
| Geen chain                                 | M |
| Live rolls                                 | H |
| Log haul-lockline                          | H |
| Log turning device                         | H |
| Main log conveyor                          | H |
| Off bearing rolls                          | M |
| Planer feed chains                         | M |
| Planer floor chains                        | M |
| Planer tilting hoist                       | M |
| Re-saw merry-go-round conveyor             | M |
| Roll cases                                 | H |
| Slab conveyor                              | H |
| Small waste-conveyor-belt                  | U |
| Small waste-conveyor-chain                 | M |
| Sorting table                              | M |
| Tipple hoist conveyor                      | M |
| Tipple hoist drive                         | M |
| Transfer conveyors                         | M |
| Transfer rolls                             | M |
| Tray drive                                 | M |
| Trimmer feed                               | M |
| Waste conveyor                             | M |
| Machine Tools                              |   |
| Bending roll                               | M |
| Notching press, belt driven                | S |
| Plate planer                               | H |
| Punch press, gear driven                   | H |
| Tapping machine                            | H |
| Other machine tools                        |   |
| Main drives                                | M |
| Auxiliary drives                           | U |
| Metal Mills                                |   |
| Draw bench carriage and main drive         | M |
| Forming machines                           | H |
| Pinch, dryer and scrubber rolls, reversing | S |
| Slitters                                   | M |
| Table conveyors, nonreversing              | M |
| Group drives                               | M |
| Individual drives                          | H |
| Table conveyors, reversing                 | S |
| Wire drawing and flattening machine        | M |
| Wire winding machine                       | M |
| Mills, Rotary Type                         |   |
| Ball                                       | M |
| Cement kilns                               | M |
| Dryers and coolers                         | M |
| Kilns                                      | M |
| Pebble                                     | M |
| Rod, plain and wedge bar                   | M |
| Tumbling barrels                           | H |
| Mixers                                     |   |
| Concrete mixers, cont.                     | M |
| Concrete mixers, intermittent              | M |
| Constant density                           | U |
| Variable density                           | M |
| Oil Industry                               |   |
| Chillers                                   | M |
| Oil well pumps                             | S |
| Paraffin filter press                      | M |
| Rotary kilns                               | M |

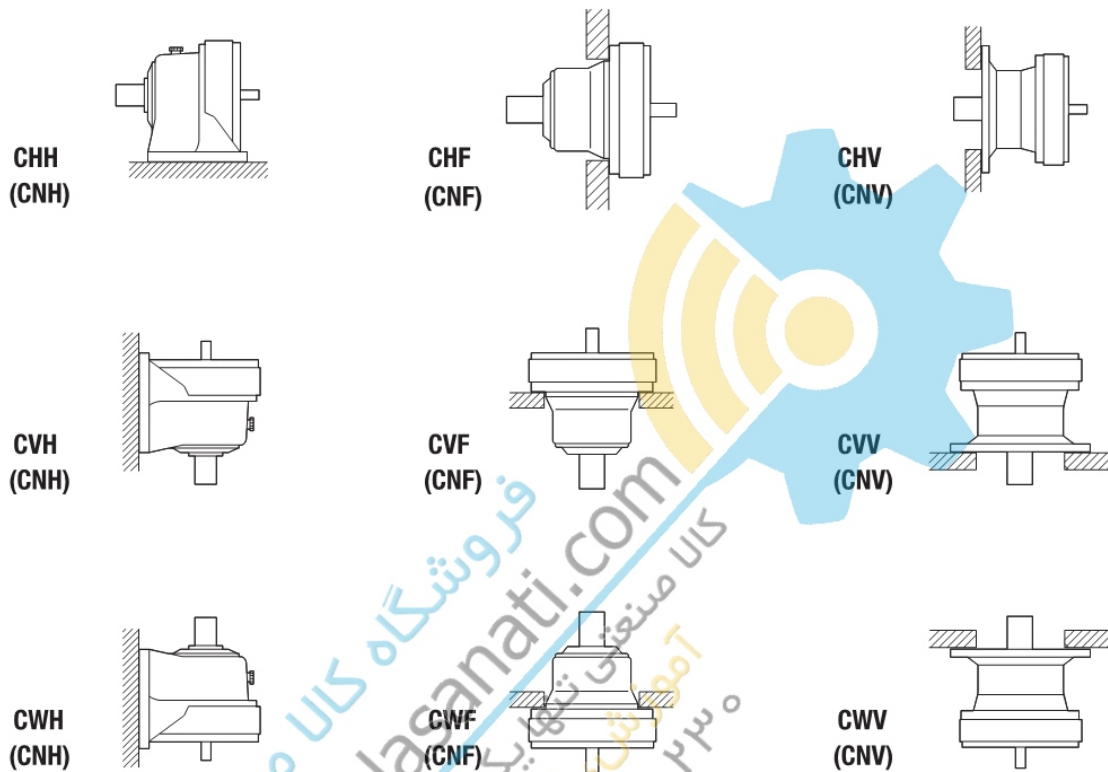
## TYPE OF APPLICATION TYPE OF LOAD

|                                              |   |
|----------------------------------------------|---|
| Paper Mills                                  |   |
| Agitators (mixers)                           | M |
| Barker, hydraulic                            | S |
| Barker, mechanical                           | S |
| Barking drum                                 | S |
| Beater and pulper                            | M |
| Bleacher                                     | U |
| Calenders                                    | M |
| Calenders, super                             | H |
| Converting machine (except cutters, platers) | M |
| Conveyors                                    | U |
| Couch                                        | M |
| Cutters, platers                             | H |
| Cylinders                                    | M |
| Dryers                                       | M |
| Felt stretcher                               | M |
| Felt whipper                                 | H |
| Jordans                                      | H |
| Log haul                                     | H |
| Presses                                      | U |
| Pulp machine reel                            | M |
| Stock chest                                  | M |
| Suction roll                                 | U |
| Washers and thickeners                       | M |
| Winders                                      | U |
| Printing Presses                             | S |
| Pullers, Barge Haul                          | H |
| Pumps                                        |   |
| Centrifugal                                  | U |
| Proportioning                                | M |
| Reciprocating                                |   |
| Single acting, 3 or more cylinders           | M |
| Double acting, 2 or more cylinders           | M |
| Rotary-gear type                             | U |
| Rubber and Plastics Industries               |   |
| Crackers                                     | H |
| Laboratory equipment                         | M |
| Mixing mills                                 | H |
| Refiners                                     | M |
| Rubber calenders                             | M |
| Rubber mill (2 on line)                      | M |
| Rubber mill (3 on line)                      | U |
| Sheeter                                      | M |
| Tire building machines                       | S |
| Tire and tube press openers                  | S |
| Tubers and strainers                         | M |
| Warming mills                                | M |
| Sand Muller                                  | M |
| Screens                                      |   |
| Air washing                                  | U |
| Rotary, stone or gravel                      | M |
| Traveling water intake                       | U |
| Sewage Disposal Equipment                    |   |
| Bar screens                                  | U |
| Chemical fenders                             | U |
| Collectors, circuline or straightline        | U |
| Dewatering screens                           | M |
| Grit collectors                              | U |
| Scum breakers                                | M |
| Slow or rapid mixers                         | M |
| Sludge collectors                            | U |
| Thickeners                                   | M |
| Vacuum filters                               | M |
| Slab Pushers                                 | M |
| Steering Gear                                | S |
| Stokers                                      | U |
| Sugar Industry                               |   |
| Cane knives                                  | M |
| Crushers                                     | M |
| Mills                                        | H |
| Textile Industry                             |   |
| Batchers                                     | M |
| Calenders                                    | M |
| Cards                                        | M |
| Dry cans                                     | M |
| Dryers                                       | M |
| Dyeing machinery                             | M |
| Knitting machines                            | S |
| Looms                                        | M |
| Mangles                                      | M |
| Nappers                                      | M |
| Pads                                         | M |
| Range drives                                 | S |
| Slashers                                     | M |
| Soapers                                      | M |
| Spinners                                     | M |
| Tenter frames                                | M |
| Washers                                      | M |
| Winders                                      | M |
| Windlass                                     | S |

U = Uniform Load      H = Heavy Shock  
M = Moderate Shock      S = Contact Sumitomo

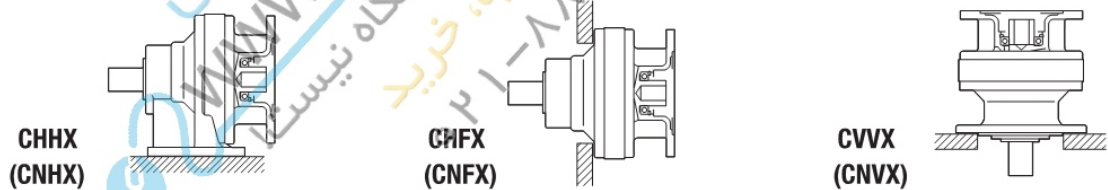


# Housing Styles & Mounting Positions

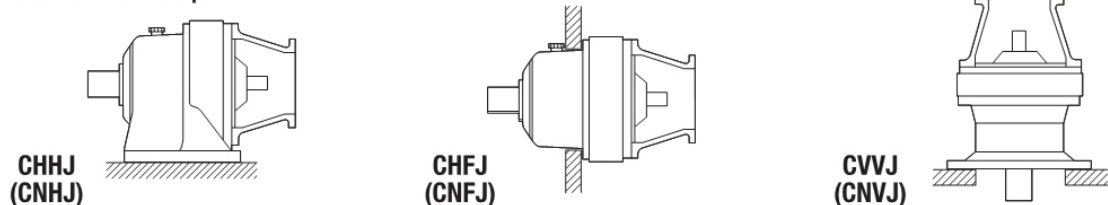


Mounting  
Positions

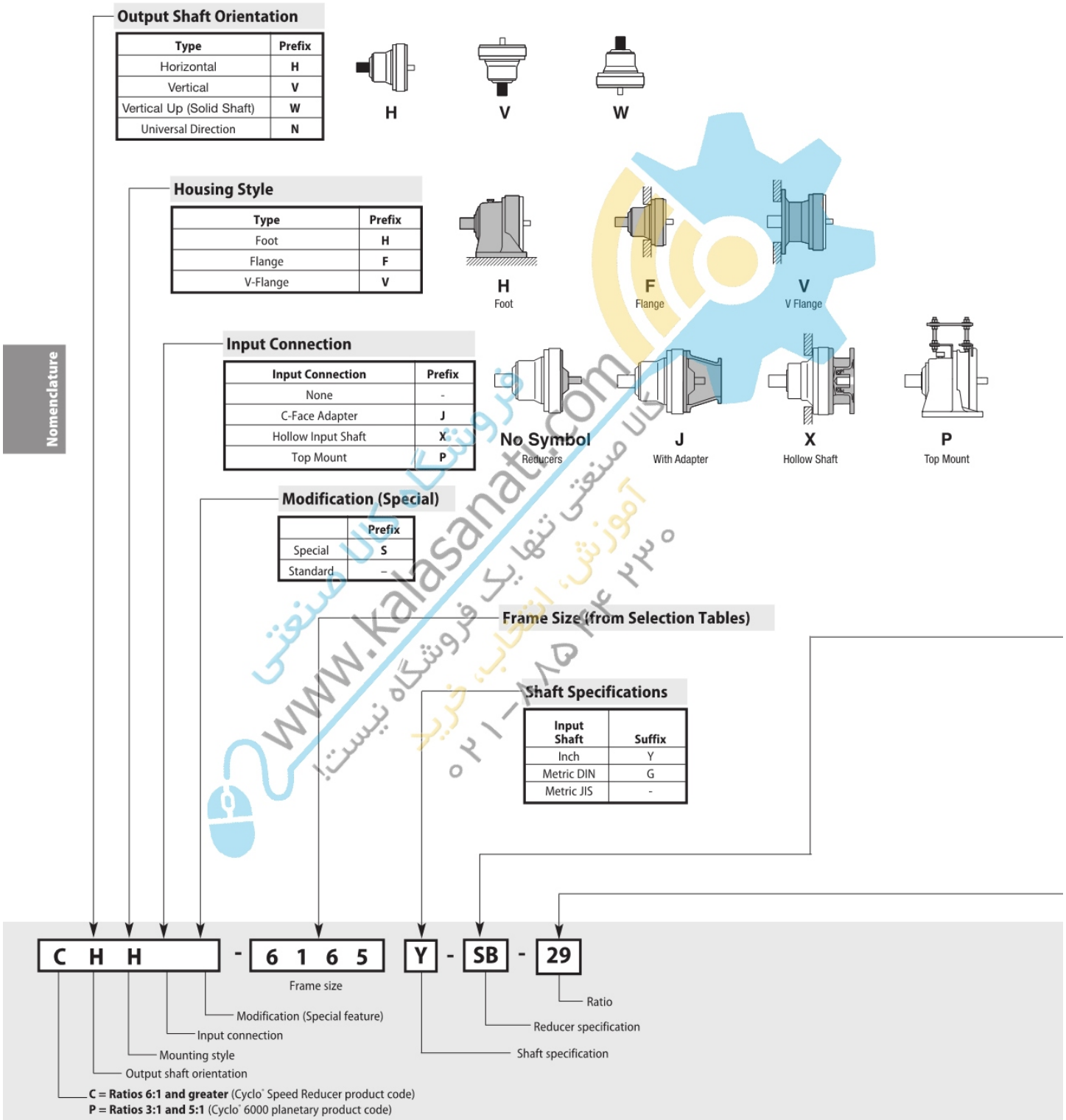
## Input Side Hollow Shaft



## With C-Face Adapter



# Configure a Model Number



# Nomenclature

## Example

### CHH – 6165Y – 29

C – Cyclo® 6000

H – Horizontal O/P

H – Foot Mount

6165 – Frame Size

Y – Inch Shaft

29 – Ratio

### Reducer Specification

| Type                                 | Suffix                             |
|--------------------------------------|------------------------------------|
| Torque Limiter                       | TL                                 |
| High Capacity Bearing                | R1                                 |
| High Capacity Bearing Ductile Casing | R2                                 |
| Baseplate                            | BP                                 |
| Shovel Base                          | SB                                 |
| Top Mount                            | Center<br>Right<br>Left            |
|                                      | PR<br>PL                           |
| HH Type                              | Ceiling<br>Left Wall<br>Right Wall |
|                                      | H1<br>H2<br>H3                     |
| Low Backlash                         | LB                                 |

### Ratio

Ratio is found here in Selection Tables

### Nominal Total Ratio

| Output RPM           | 563  | 350  | 292  | 218   | 158   | 135   | 117   | 103   | 85.3  |            |
|----------------------|------|------|------|-------|-------|-------|-------|-------|-------|------------|
| Ratio                | 3    | 5    | 6    | 8     | 11    | 13    | 15    | 17    | 21    | FRAME SIZE |
| Input HP             | 20.2 | 20.2 | 20.3 | 20.3  | 20.3  | 20.3  | 20.3  | 16.1  | 14.5  | 6145       |
| Output Torque in•lbs | 2061 | 3469 | 4170 | 5560  | 7550  | 9030  | 10300 | 9370  | 10500 | 614H       |
| Overhung Load (lbs)  | 1554 | 1643 | 1980 | 2170  | 2430  | 2470  | 2580  | 2710  | 2890  |            |
| Input HP             | 27.2 | 27.2 | 27.2 | 26.4  | 26.4  | 26.4  | 25.1  | 17.6  | 17.3  | 6160       |
| Output Torque in•lbs | 2799 | 4654 | 5590 | 7230  | 9990  | 11890 | 12900 | 10200 | 12400 |            |
| Overhung Load (lbs)  | 1702 | 2019 | 2150 | 2400  | 2890  | 2900  | 3090  | 3150  | 3350  |            |
| Input HP             | 32.3 | 32.3 | 32.3 | 32.3  | 32.3  | 30.3  | 30.3  | 25.2  | 21.6  | 6165       |
| Output Torque in•lbs | 3322 | 5530 | 6610 | 8850  | 12200 | 13500 | 15500 | 14700 | 15500 | 616H       |
| Overhung Load (lbs)  | 1686 | 1998 | 2130 | 2360  | 2670  | 2780  | 2950  | 3080  | 3310  |            |
| Input HP             | 37.0 | 37.0 | 37.0 | 37.0  | 37.0  | 36.6  | 34.2  | 26.4  | 26.2  | 6170       |
| Output Torque in•lbs | 3798 | 6335 | 7600 | 10100 | 13900 | 16300 | 17500 | 15300 | 16700 |            |
| Overhung Load (lbs)  | 1906 | 2261 | 2400 | 2650  | 3040  | 3150  | 3280  | 2480  | 3750  |            |
| Input HP             | 40.4 | 40.4 | 40.4 | 40.4  | 40.4  | 40.4  | 40.4  | 32.3  | 32.3  | 6175       |
| Output Torque in•lbs | 4141 | 6914 | 8290 | 11000 | 15200 | 18000 | 20700 | 18700 | 23200 |            |
| Overhung Load (lbs)  | 1906 | 2281 | 2400 | 2620  | 3020  | 3130  | 3240  | 3440  | 3680  |            |
| Input HP             | -    | -    | -    | -     | 47.2  | 47.2  | 43.5  | 41.1  | 40.3  | 6180       |
| Output Torque in•lbs | -    | -    | -    | -     | 17800 | 21000 | 22300 | 23800 | 28900 |            |
| Overhung Load (lbs)  | -    | -    | -    | -     | 4030  | 4210  | 4430  | 4670  | 5030  |            |
| Input HP             | -    | -    | -    | -     | 52.3  | 52.3  | 52.3  | 52.3  | 52.3  | 6185       |
| Output Torque in•lbs | -    | -    | -    | -     | 19900 | 23300 | 26800 | 30500 | 37600 |            |



# Reduction Ratios

## Standard Reduction Ratios

| Single Reduction |                 |                 |                 |                 |                 |                 |                 |                 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 3*               | 5*              | 6               | 8               | 11              | 13              | 15              | 17              | 21              |
| 25               | 29              | 35              | 43              | 51              | 59              | 71              | 87              | 119             |
| Double Reduction |                 |                 |                 |                 |                 |                 |                 |                 |
| 104<br>(13x8)    | 121<br>(11x11)  | 143<br>(13x11)  | 165<br>(15x11)  | 195<br>(15x13)  | 231<br>(21x11)  | 273<br>(21x13)  | 319<br>(29x11)  | 377<br>(29x13)  |
| 473<br>(43x11)   | 559<br>(43x13)  | 649<br>(59x11)  | 731<br>(43x17)  | 841<br>(29x29)  | 1003<br>(59x17) | 1247<br>(43x29) | 1479<br>(87x17) | 1849<br>(43x43) |
| 2065<br>(59x35)  | 2537<br>(59x43) | 3045<br>(87x35) | 3481<br>(59x59) | 4437<br>(87x51) | 5133<br>(87x59) | 6177<br>(87x71) | 7569<br>(87x87) |                 |

\* Note: Ratios 3 and 5 are planetary.

## Optional Reduction Ratios

The following reduction ratios may also be available for certain specifications; please consult factory. The output shaft RPM listed in the table below represents coupling the reducer with a four-pole motor, 60 Hz, input speed 1750 RPM.

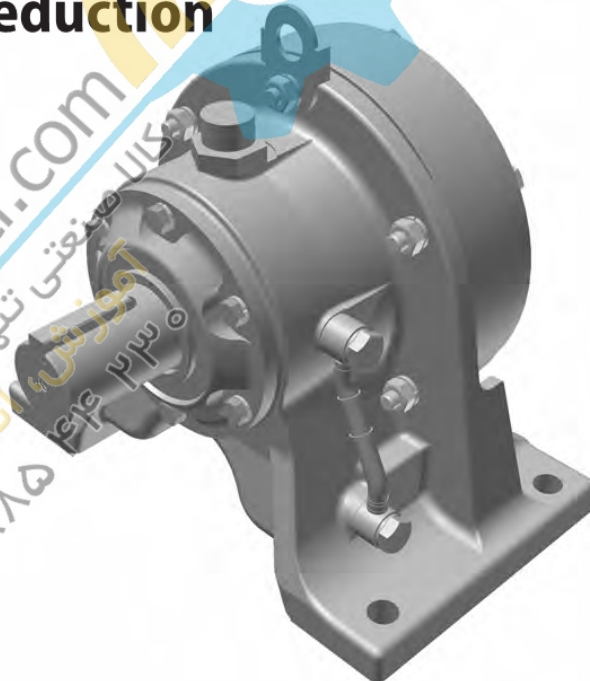
|                  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Reduction Ratio  | 88<br>(11x8)    | 90<br>(15x6)    | 102<br>(17x6)   | 120<br>(15x8)   | 126<br>(21x6)   | 136<br>(17x8)   | 150<br>(25x6)   | 168<br>(21x8)   | 169<br>(13x13)  | 174<br>(29x6)   | 187<br>(17x11)  | 200<br>(25x8)   | 210<br>(35x6)   | 221<br>(17x13)  | 225<br>(15x15)  |
| Output Speed RPM | 19.9            | 19.4            | 17.2            | 14.6            | 13.9            | 13.9            | 11.7            | 10.4            | 10.4            | 10.1            | 9.36            | 8.75            | 8.33            | 7.92            | 7.78            |
| Reduction Ratio  | 232<br>(29x8)   | 255<br>(17x15)  | 258<br>(43x6)   | 275<br>(25x11)  | 280<br>(35x8)   | 289<br>(17x17)  | 306<br>(51x6)   | 315<br>(21x15)  | 325<br>(25x13)  | 344<br>(43x8)   | 354<br>(59x6)   | 357<br>(21x17)  | 375<br>(25x15)  | 385<br>(35x11)  | 408<br>(51x8)   |
| Output Speed RPM | 7.54            | 6.86            | 6.87            | 6.36            | 6.25            | 6.06            | 5.72            | 5.56            | 5.38            | 5.09            | 4.94            | 4.90            | 4.67            | 4.55            | 4.29            |
| Reduction Ratio  | 425<br>(25x17)  | 426<br>(71x6)   | 435<br>(29x15)  | 441<br>(21x21)  | 455<br>(35x13)  | 472<br>(59x8)   | 493<br>(29x17)  | 522<br>(87x6)   | 525<br>(35x15)  | 561<br>(51x11)  | 568<br>(71x8)   | 595<br>(35x17)  | 609<br>(29x21)  | 625<br>(25x25)  | 645<br>(43x15)  |
| Output Speed RPM | 4.12            | 4.11            | 4.02            | 3.97            | 3.85            | 3.71            | 3.55            | 3.35            | 3.33            | 3.12            | 3.08            | 2.94            | 2.87            | 2.80            | 2.71            |
| Reduction Ratio  | 663<br>(51x13)  | 696<br>(87x8)   | 725<br>(29x25)  | 735<br>(35x21)  | 765<br>(51x15)  | 767<br>(59x13)  | 781<br>(71x11)  | 867<br>(51x17)  | 875<br>(35x25)  | 885<br>(59x15)  | 903<br>(43x21)  | 923<br>(71x13)  | 957<br>(87x11)  | 1015<br>(35x29) | 1065<br>(71x15) |
| Output Speed RPM | 2.64            | 2.51            | 2.41            | 2.38            | 2.29            | 2.28            | 2.24            | 2.02            | 2.00            | 1.98            | 1.94            | 1.90            | 1.83            | 1.72            | 1.64            |
| Reduction Ratio  | 1071<br>(51x21) | 1075<br>(43x25) | 1131<br>(87x13) | 1207<br>(71x17) | 1225<br>(35x35) | 1239<br>(59x21) | 1275<br>(51x25) | 1305<br>(87x15) | 1475<br>(59x25) | 1491<br>(71x21) | 1505<br>(43x35) | 1711<br>(59x29) | 1775<br>(71x25) | 1785<br>(51x35) | 1827<br>(87x21) |
| Output Speed RPM | 1.63            | 1.63            | 1.55            | 1.45            | 1.43            | 1.41            | 1.37            | 1.34            | 1.19            | 1.17            | 1.16            | 1.02            | 0.99            | 0.98            | 0.96            |
| Reduction Ratio  | 2059<br>(71x29) | 2175<br>(87x25) | 2193<br>(51x43) | 2485<br>(71x35) | 2523<br>(87x29) | 2601<br>(51x51) | 3009<br>(59x51) | 3053<br>(71x43) | 3621<br>(71x51) | 3741<br>(87x43) | 4189<br>(71x59) | 5041<br>(71x71) |                 |                 |                 |
| Output Speed RPM | 0.85            | 0.80            | 0.80            | 0.70            | 0.69            | 0.67            | 0.58            | 0.57            | 0.48            | 0.47            | 0.42            | 0.35            |                 |                 |                 |

# 3

## Selection Tables

### Single Reduction

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Speed  
Reducers

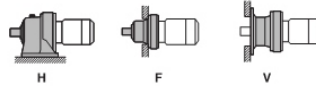
Selection  
Tables

**Double Reduction** see page 3.23



# Frame Size Selection Tables 1750 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



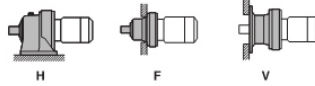
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2–4.19  |
|             | V-Flange (V)   | 4.36–4.46 |
|             |                | 4.62–4.80 |

| Output RPM<br>Ratio  | 583<br>3 <sup>[1]</sup> | 350<br>5 <sup>[1]</sup> | 292<br>6    | 219<br>8    | 159<br>11   | 135<br>13   | 117<br>15   | 103<br>17   | 83.3<br>21  | FRAME SIZE                 |
|----------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
| <b>Input HP</b>      | -                       | -                       | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>6060</b>                |
| Output Torque in•lbs | -                       | -                       | 55.0        | 73.3        | 101         | 120         | 138         | 155         | 193         |                            |
| Overhung Load (lbs)  | -                       | -                       | 163         | 193         | 263         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.31</b> | <b>6065</b>                |
| Output Torque in•lbs | -                       | -                       | 78.8        | 105         | 144         | 171         | 197         | 223         | 225         |                            |
| Overhung Load (lbs)  | -                       | -                       | 168         | 192         | 258         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.43</b> | <b>6070</b>                |
| Output Torque in•lbs | -                       | -                       | 95.5        | 128         | 175         | 207         | 239         | 270         | 309         |                            |
| Overhung Load (lbs)  | -                       | -                       | 293         | 322         | 359         | 379         | 379         | 397         | 397         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>6075</b>                |
| Output Torque in•lbs | -                       | -                       | 112         | 149         | 205         | 242         | 279         | 318         | 392         |                            |
| Overhung Load (lbs)  | -                       | -                       | 289         | 320         | 357         | 375         | 377         | 397         | 397         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.64</b> | <b>6080</b>                |
| Output Torque in•lbs | -                       | -                       | 163         | 218         | 299         | 353         | 408         | 462         | 461         |                            |
| Overhung Load (lbs)  | -                       | -                       | 403         | 437         | 481         | 516         | 534         | 558         | 549         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>0.74</b> | <b>6085</b>                |
| Output Torque in•lbs | -                       | -                       | 214         | 286         | 393         | 464         | 536         | 606         | 530         |                            |
| Overhung Load (lbs)  | -                       | -                       | 401         | 434         | 476         | 511         | 529         | 551         | 547         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.02</b> | <b>6090</b>                |
| Output Torque in•lbs | -                       | -                       | 316         | 420         | 579         | 684         | 788         | 894         | 730         |                            |
| Overhung Load (lbs)  | -                       | -                       | 595         | 664         | 750         | 750         | 750         | 750         | 750         |                            |
| <b>Input HP</b>      | -                       | -                       | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>6095</b>                |
| Output Torque in•lbs | -                       | -                       | 417         | 566         | 765         | 903         | 1040        | 1190        | 1460        |                            |
| Overhung Load (lbs)  | -                       | -                       | 591         | 655         | 741         | 741         | 736         | 739         | 732         |                            |
| <b>Input HP</b>      | <b>3.15</b>             | <b>3.15</b>             | <b>3.15</b> | <b>3.15</b> | <b>3.15</b> | <b>3.15</b> | <b>3.15</b> | <b>2.67</b> | <b>2.59</b> | <b>6100</b>                |
| Output Torque in•lbs | 324                     | 540                     | 646         | 862         | 1190        | 1400        | 1620        | 1550        | 1860        |                            |
| Overhung Load (lbs)  | 687                     | 813                     | 864         | 963         | 1090        | 1140        | 1200        | 1210        | 1210        |                            |
| <b>Input HP</b>      | <b>4.26</b>             | <b>4.26</b>             | <b>4.27</b> | <b>4.27</b> | <b>4.27</b> | <b>4.27</b> | <b>4.27</b> | <b>3.30</b> | <b>3.14</b> | <b>6105</b><br><b>610H</b> |
| Output Torque in•lbs | 434                     | 726                     | 877         | 1170        | 1610        | 1890        | 2190        | 1910        | 2250        |                            |
| Overhung Load (lbs)  | 680                     | 806                     | 858         | 952         | 1080        | 1120        | 1180        | 1210        | 1210        |                            |
| <b>Input HP</b>      | -                       | -                       | <b>4.77</b> | <b>4.77</b> | <b>4.77</b> | <b>4.77</b> | <b>4.77</b> | <b>4.27</b> | <b>3.65</b> | <b>6110</b>                |
| Output Torque in•lbs | -                       | -                       | 972         | 1300        | 1790        | 2120        | 2440        | 2470        | 2630        |                            |
| Overhung Load (lbs)  | -                       | -                       | 970         | 1080        | 1230        | 1270        | 1350        | 1370        | 1460        |                            |
| <b>Input HP</b>      | -                       | -                       | <b>5.26</b> | <b>5.26</b> | <b>5.26</b> | <b>5.23</b> | <b>5.23</b> | <b>5.23</b> | <b>4.17</b> | <b>6115</b>                |
| Output Torque in•lbs | -                       | -                       | 1080        | 1440        | 1970        | 2330        | 2680        | 3050        | 3000        |                            |
| Overhung Load (lbs)  | -                       | -                       | 968         | 1080        | 1230        | 1260        | 1340        | 1350        | 1440        |                            |
| <b>Input HP</b>      | <b>6.80</b>             | <b>6.80</b>             | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>5.32</b> | <b>6120</b>                |
| Output Torque in•lbs | 699                     | 1159                    | 1400        | 1860        | 2560        | 3030        | 3490        | 3960        | 3810        |                            |
| Overhung Load (lbs)  | 867                     | 1026                    | 1090        | 1210        | 1380        | 1420        | 1520        | 1530        | 1700        |                            |
| <b>Input HP</b>      | <b>7.79</b>             | <b>7.79</b>             | <b>7.80</b> | <b>9.33</b> | <b>7.95</b> | <b>7.95</b> | <b>7.95</b> | <b>7.60</b> | <b>6.55</b> | <b>6125</b><br><b>612H</b> |
| Output Torque in•lbs | 796                     | 1335                    | 1610        | 2550        | 2990        | 3530        | 4070        | 4420        | 4700        |                            |
| Overhung Load (lbs)  | 862                     | 1022                    | 1090        | 1200        | 1370        | 1400        | 1510        | 1520        | 1670        |                            |
| <b>Input HP</b>      | <b>12.6</b>             | <b>12.6</b>             | <b>12.6</b> | <b>12.6</b> | <b>12.6</b> | <b>12.6</b> | <b>10.4</b> | <b>9.76</b> | <b>8.24</b> | <b>6130</b>                |
| Output Torque in•lbs | 1294                    | 2157                    | 2590        | 3450        | 4730        | 5600        | 5360        | 5670        | 5920        |                            |
| Overhung Load (lbs)  | 997                     | 1181                    | 1260        | 1400        | 1590        | 1650        | 1700        | 1830        | 1960        |                            |
| <b>Input HP</b>      | <b>15.2</b>             | <b>15.2</b>             | <b>15.2</b> | <b>15.2</b> | <b>15.2</b> | <b>15.2</b> | <b>12.0</b> | <b>11.1</b> | <b>10.1</b> | <b>6135</b>                |
| Output Torque in•lbs | 1557                    | 2596                    | 3120        | 4150        | 5700        | 6740        | 6160        | 6460        | 7260        |                            |
| Overhung Load (lbs)  | 983                     | 1165                    | 1240        | 1380        | 1570        | 1620        | 1680        | 1810        | 1930        |                            |
| <b>Input HP</b>      | <b>17.4</b>             | <b>17.4</b>             | <b>17.4</b> | <b>17.4</b> | <b>17.4</b> | <b>17.4</b> | <b>16.1</b> | <b>13.6</b> | <b>11.6</b> | <b>6140</b>                |
| Output Torque in•lbs | 1792                    | 2986                    | 3580        | 4770        | 6570        | 7770        | 8250        | 7860        | 8340        |                            |
| Overhung Load (lbs)  | 1558                    | 1848                    | 1970        | 2180        | 2450        | 2490        | 2600        | 2730        | 2930        |                            |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 1750 RPM Frame Size Selection Tables

Dimensions:      Pages  
 Foot Mount (H) 4.2–4.19  
 F-Flange (F) 4.36–4.46  
 V-Flange (V) 4.62–4.80



Single Reduction, Ratios 25-119  
 H, F, V Housing Styles

| Output RPM Ratio     | 70.0<br>25  | 60.3<br>29  | 50.0<br>35  | 40.7<br>43  | 34.3<br>51  | 29.7<br>59  | 24.6<br>71  | 20.1<br>87  | 14.7<br>119 | FRAME SIZE   |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>Input HP</b>      | <b>0.15</b> | <b>0.15</b> | <b>0.15</b> | <b>0.12</b> | -           | -           | -           | -           | -           | 6060         |
| Output Torque in•lbs | 127         | 146         | 177         | 178         | -           | -           | -           | -           | -           |              |
| Overhung Load (lbs)  | 265         | 265         | 265         | 265         | -           | -           | -           | -           | -           |              |
| <b>Input HP</b>      | <b>0.22</b> | <b>0.22</b> | <b>0.19</b> | <b>0.15</b> | -           | -           | -           | -           | -           | 6065         |
| Output Torque in•lbs | 190         | 220         | 230         | 223         | -           | -           | -           | -           | -           |              |
| Overhung Load (lbs)  | 265         | 265         | 265         | 265         | -           | -           | -           | -           | -           |              |
| <b>Input HP</b>      | <b>0.31</b> | <b>0.30</b> | <b>0.28</b> | <b>0.23</b> | <b>0.13</b> | <b>0.13</b> | -           | -           | -           | 6070         |
| Output Torque in•lbs | 264         | 301         | 339         | 334         | 233         | 271         | -           | -           | -           |              |
| Overhung Load (lbs)  | 397         | 397         | 397         | 397         | 397         | 397         | -           | -           | -           |              |
| <b>Input HP</b>      | <b>0.40</b> | <b>0.38</b> | <b>0.37</b> | <b>0.30</b> | <b>0.19</b> | <b>0.18</b> | -           | -           | -           | 6075         |
| Output Torque in•lbs | 337         | 380         | 448         | 446         | 335         | 367         | -           | -           | -           |              |
| Overhung Load (lbs)  | 397         | 397         | 397         | 397         | 397         | 397         | -           | -           | -           |              |
| <b>Input HP</b>      | <b>0.46</b> | <b>0.46</b> | <b>0.44</b> | <b>0.34</b> | <b>0.26</b> | <b>0.25</b> | <b>0.16</b> | <b>0.12</b> | -           | 6080         |
| Output Torque in•lbs | 391         | 452         | 527         | 493         | 450         | 500         | 391         | 359         | -           |              |
| Overhung Load (lbs)  | 569         | 575         | 575         | 575         | 575         | 575         | 575         | 575         | -           |              |
| <b>Input HP</b>      | <b>0.64</b> | <b>0.63</b> | <b>0.49</b> | <b>0.40</b> | <b>0.32</b> | <b>0.31</b> | <b>0.25</b> | <b>0.16</b> | -           | 6085         |
| Output Torque in•lbs | 544         | 621         | 595         | 580         | 583         | 632         | 609         | 484         | -           |              |
| Overhung Load (lbs)  | 562         | 573         | 575         | 575         | 575         | 575         | 571         | 575         | -           |              |
| <b>Input HP</b>      | <b>0.90</b> | <b>0.84</b> | <b>0.82</b> | <b>0.58</b> | <b>0.45</b> | <b>0.42</b> | <b>0.34</b> | <b>0.28</b> | <b>0.17</b> | 6090         |
| Output Torque in•lbs | 769         | 832         | 981         | 858         | 776         | 836         | 819         | 843         | 682         |              |
| Overhung Load (lbs)  | 750         | 750         | 750         | 750         | 750         | 750         | 750         | 750         | 750         |              |
| <b>Input HP</b>      | <b>1.16</b> | <b>1.05</b> | <b>1.02</b> | <b>0.81</b> | <b>0.57</b> | <b>0.50</b> | <b>0.40</b> | <b>0.40</b> | <b>0.20</b> | 6095         |
| Output Torque in•lbs | 990         | 1040        | 1220        | 1190        | 990         | 1010        | 981         | 1210        | 823         |              |
| Overhung Load (lbs)  | 750         | 750         | 745         | 750         | 750         | 750         | 750         | 750         | 750         |              |
| <b>Input HP</b>      | <b>1.70</b> | <b>1.62</b> | <b>1.31</b> | <b>1.05</b> | <b>0.75</b> | <b>0.69</b> | <b>0.59</b> | <b>0.58</b> | <b>0.28</b> | 6100         |
| Output Torque in•lbs | 1460        | 1610        | 1560        | 1540        | 1310        | 1400        | 1410        | 1730        | 1150        |              |
| Overhung Load (lbs)  | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        |              |
| <b>Input HP</b>      | <b>2.24</b> | <b>2.13</b> | <b>1.61</b> | <b>1.45</b> | <b>1.04</b> | <b>0.95</b> | <b>0.75</b> | <b>0.76</b> | <b>0.38</b> | 6105<br>610H |
| Output Torque in•lbs | 1920        | 2120        | 1920        | 2140        | 1810        | 1920        | 1830        | 2260        | 1560        |              |
| Overhung Load (lbs)  | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        |              |
| <b>Input HP</b>      | <b>2.56</b> | <b>2.55</b> | <b>2.01</b> | <b>1.74</b> | <b>1.27</b> | <b>1.15</b> | <b>0.90</b> | <b>0.89</b> | -           | 6110         |
| Output Torque in•lbs | 2200        | 2530        | 2410        | 2570        | 2200        | 2330        | 2180        | 2640        | -           |              |
| Overhung Load (lbs)  | 1500        | 1540        | 1650        | 1710        | 1710        | 1710        | 1710        | 1710        | -           |              |
| <b>Input HP</b>      | <b>2.98</b> | <b>2.98</b> | <b>2.43</b> | <b>2.04</b> | <b>1.49</b> | <b>1.36</b> | <b>1.02</b> | <b>1.02</b> | -           | 6115         |
| Output Torque in•lbs | 2550        | 2950        | 2900        | 2990        | 2600        | 2730        | 2470        | 3030        | -           |              |
| Overhung Load (lbs)  | 1490        | 1530        | 1640        | 1710        | 1710        | 1710        | 1710        | 1710        | -           |              |
| <b>Input HP</b>      | <b>4.15</b> | <b>4.01</b> | <b>3.34</b> | <b>2.56</b> | <b>2.31</b> | <b>1.74</b> | <b>1.28</b> | <b>1.27</b> | -           | 6120         |
| Output Torque in•lbs | 3540        | 3980        | 4010        | 3780        | 4020        | 3530        | 3120        | 3770        | -           |              |
| Overhung Load (lbs)  | 1790        | 1860        | 1980        | 2120        | 2200        | 2200        | 2200        | 2200        | -           |              |
| <b>Input HP</b>      | <b>5.32</b> | <b>5.06</b> | <b>4.27</b> | <b>3.19</b> | <b>3.06</b> | <b>2.17</b> | <b>1.61</b> | <b>1.52</b> | -           | 6125<br>612H |
| Output Torque in•lbs | 4540        | 5010        | 5100        | 4700        | 5330        | 4380        | 3910        | 4510        | -           |              |
| Overhung Load (lbs)  | 1770        | 1840        | 1950        | 2100        | 2190        | 2200        | 2200        | 2200        | -           |              |
| <b>Input HP</b>      | <b>6.93</b> | <b>6.01</b> | <b>4.98</b> | <b>4.01</b> | <b>3.41</b> | <b>2.94</b> | <b>2.46</b> | <b>1.91</b> | -           | 6130         |
| Output Torque in•lbs | 5920        | 5960        | 5950        | 5910        | 5950        | 5920        | 5960        | 5660        | -           |              |
| Overhung Load (lbs)  | 2050        | 2160        | 2290        | 2470        | 2580        | 2710        | 2890        | 3130        | -           |              |
| <b>Input HP</b>      | <b>7.99</b> | <b>7.57</b> | <b>5.70</b> | <b>5.06</b> | <b>3.93</b> | <b>3.38</b> | <b>2.91</b> | <b>2.56</b> | -           | 6135         |
| Output Torque in•lbs | 6820        | 7500        | 6820        | 7430        | 6860        | 6830        | 7070        | 7620        | -           |              |
| Overhung Load (lbs)  | 2030        | 2130        | 2270        | 2430        | 2560        | 2690        | 2870        | 3110        | -           |              |
| <b>Input HP</b>      | <b>9.25</b> | <b>7.99</b> | <b>6.99</b> | <b>5.29</b> | <b>4.60</b> | <b>3.97</b> | <b>3.26</b> | <b>2.66</b> | -           | 6140         |
| Output Torque in•lbs | 7900        | 7920        | 8360        | 7780        | 8020        | 8010        | 7920        | 7900        | -           |              |
| Overhung Load (lbs)  | 3090        | 3150        | 3400        | 3550        | 3590        | 3590        | 3590        | 3590        | -           |              |

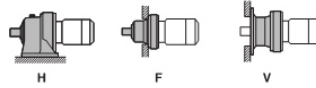
Speed Reducers

Selection Tables



# Frame Size Selection Tables 1750 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



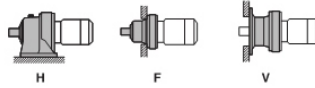
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio     | 583<br>3 <sup>[1]</sup> | 350<br>5 <sup>[1]</sup> | 292<br>6 | 219<br>8 | 159<br>11 | 135<br>13 | 117<br>15 | 103<br>17 | 83.3<br>21 | FRAME SIZE |
|----------------------|-------------------------|-------------------------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|
| Input HP             | 20.2                    | 20.2                    | 20.3     | 20.3     | 20.3      | 20.3      | 20.3      | 16.1      | 14.8       | 6145       |
| Output Torque in•lbs | 2081                    | 3469                    | 4170     | 5560     | 7650      | 9030      | 10300     | 9370      | 10500      | 614H       |
| Overhung Load (lbs)  | 1554                    | 1843                    | 1960     | 2170     | 2430      | 2470      | 2580      | 2710      | 2890       |            |
| Input HP             | 27.2                    | 27.2                    | 27.2     | 26.4     | 26.4      | 26.4      | 25.1      | 17.6      | 17.3       | 6160       |
| Output Torque in•lbs | 2798                    | 4654                    | 5580     | 7230     | 9900      | 11800     | 12900     | 10200     | 12400      |            |
| Overhung Load (lbs)  | 1702                    | 2019                    | 2150     | 2400     | 2690      | 2800      | 3000      | 3150      | 3350       |            |
| Input HP             | 32.3                    | 32.3                    | 32.3     | 32.3     | 32.3      | 30.3      | 30.3      | 25.2      | 21.6       | 6165       |
| Output Torque in•lbs | 3322                    | 5530                    | 6610     | 8850     | 12200     | 13500     | 15500     | 14700     | 15500      | 616H       |
| Overhung Load (lbs)  | 1686                    | 1998                    | 2130     | 2360     | 2670      | 2780      | 2950      | 3060      | 3310       |            |
| Input HP             | 37.0                    | 37.0                    | 37.0     | 37.0     | 37.0      | 36.6      | 34.2      | 26.4      | 26.2       | 6170       |
| Output Torque in•lbs | 3796                    | 6335                    | 7600     | 10100    | 13900     | 16300     | 17500     | 15300     | 18700      |            |
| Overhung Load (lbs)  | 1906                    | 2261                    | 2400     | 2650     | 3040      | 3150      | 3280      | 3480      | 3750       |            |
| Input HP             | 40.4                    | 40.4                    | 40.4     | 40.4     | 40.4      | 40.4      | 40.4      | 32.3      | 32.3       | 6175       |
| Output Torque in•lbs | 4141                    | 6914                    | 8290     | 11000    | 15200     | 18000     | 20700     | 18700     | 23200      |            |
| Overhung Load (lbs)  | 1906                    | 2261                    | 2400     | 2620     | 3020      | 3130      | 3240      | 3440      | 3680       |            |
| Input HP             | -                       | -                       | -        | -        | 47.2      | 47.2      | 43.5      | 41.1      | 40.3       | 6180       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 17800     | 21000     | 22300     | 23800     | 28900      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 4030      | 4210      | 4430      | 4670      | 5030       |            |
| Input HP             | -                       | -                       | -        | -        | 52.3      | 52.3      | 52.3      | 52.3      | 52.3       | 6185       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 19600     | 23300     | 26800     | 30500     | 37600      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 4010      | 4190      | 4390      | 4610      | 4940       |            |
| Input HP             | -                       | -                       | -        | -        | 55.0      | 55.0      | 55.0      | 55.0      | 55.0       | 6190       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 20700     | 24400     | 28200     | 31900     | 39500      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 5690      | 5910      | 6170      | 6530      | 7010       |            |
| Input HP             | -                       | -                       | -        | -        | 64.6      | 64.6      | 64.6      | 64.6      | 64.6       | 6195       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 24200     | 28600     | 33100     | 37500     | 46400      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 5670      | 5860      | 6130      | 6480      | 6970       |            |
| Input HP             | -                       | -                       | -        | -        | 80.1      | -         | 80.1      | -         | 79.5       | 6205       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 30100     | -         | 41100     | -         | 57000      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 11000     | -         | 11800     | -         | 13200      |            |
| Input HP             | -                       | -                       | -        | -        | 101       | -         | 101       | -         | 101        | 6215       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 38000     | -         | 51800     | -         | 72600      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 11100     | -         | 11900     | -         | 13400      |            |
| Input HP             | -                       | -                       | -        | -        | 134       | -         | 134       | -         | 126        | 6225       |
| Output Torque in•lbs | -                       | -                       | -        | -        | 50200     | -         | 68400     | -         | 91100      |            |
| Overhung Load (lbs)  | -                       | -                       | -        | -        | 11700     | -         | 12600     | -         | 14000      |            |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 1750 RPM Frame Size Selection Tables

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.2–4.19  |
| F-Flange (F)   | 4.36–4.46 |
| V-Flange (V)   | 4.62–4.80 |



## Single Reduction, Ratios 25-119 H, F, V Housing Styles

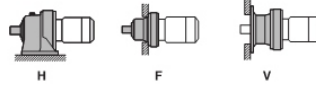
| Output RPM Ratio     | 70.0<br>25  | 60.3<br>29  | 50.0<br>35  | 40.7<br>43  | 34.3<br>51  | 29.7<br>59  | 24.6<br>71  | 20.1<br>87  | 14.7<br>119 | FRAME SIZE  |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Input HP</b>      | <b>10.6</b> | <b>10.1</b> | <b>10.1</b> | <b>7.23</b> | <b>5.66</b> | <b>4.90</b> | <b>4.07</b> | <b>3.33</b> | -           | <b>6145</b> |
| Output Torque in•lbs | 9110        | 9980        | 12200       | 10600       | 9900        | 9900        | 9810        | 9900        | -           | <b>614H</b> |
| Overhung Load (lbs)  | 3090        | 3150        | 3350        | 3510        | 3590        | 3590        | 3590        | 3590        | -           |             |
| <b>Input HP</b>      | <b>13.2</b> | <b>14.1</b> | <b>13.0</b> | <b>10.0</b> | <b>7.72</b> | <b>5.93</b> | <b>4.66</b> | <b>4.66</b> | -           | <b>6160</b> |
| Output Torque in•lbs | 11300       | 14000       | 15500       | 14700       | 13500       | 12000       | 11300       | 13900       | -           |             |
| Overhung Load (lbs)  | 3550        | 3660        | 3880        | 4210        | 4410        | 4920        | 4940        | 4890        | -           |             |
| <b>Input HP</b>      | <b>20.3</b> | <b>15.3</b> | <b>15.3</b> | <b>10.6</b> | <b>10.1</b> | <b>7.72</b> | <b>7.58</b> | <b>5.23</b> | -           | <b>6165</b> |
| Output Torque in•lbs | 17300       | 15200       | 18300       | 15500       | 17600       | 15500       | 18400       | 15500       | -           | <b>616H</b> |
| Overhung Load (lbs)  | 3440        | 3640        | 3840        | 4190        | 4340        | 4870        | 4830        | 4870        | -           |             |
| <b>Input HP</b>      | <b>21.2</b> | <b>19.2</b> | <b>16.1</b> | <b>13.1</b> | <b>11.3</b> | <b>9.60</b> | <b>7.95</b> | <b>6.46</b> | -           | <b>6170</b> |
| Output Torque in•lbs | 18100       | 19000       | 19300       | 19200       | 19600       | 19400       | 19300       | 19200       | -           |             |
| Overhung Load (lbs)  | 3920        | 4140        | 4410        | 4720        | 4940        | 5200        | 5530        | 5950        | -           |             |
| <b>Input HP</b>      | <b>26.2</b> | <b>25.2</b> | <b>20.3</b> | <b>15.2</b> | <b>15.2</b> | <b>11.1</b> | <b>9.60</b> | <b>7.54</b> | -           | <b>6175</b> |
| Output Torque in•lbs | 22400       | 25000       | 24100       | 22300       | 26500       | 22500       | 23300       | 22500       | -           |             |
| Overhung Load (lbs)  | 3860        | 4080        | 4340        | 4700        | 4850        | 5160        | 5490        | 5910        | -           |             |
| <b>Input HP</b>      | <b>32.3</b> | <b>26.2</b> | <b>25.2</b> | <b>20.3</b> | <b>16.1</b> | <b>13.1</b> | <b>11.8</b> | <b>9.60</b> | -           | <b>6180</b> |
| Output Torque in•lbs | 27600       | 26000       | 30200       | 29800       | 28000       | 26400       | 28600       | 28500       | -           |             |
| Overhung Load (lbs)  | 5270        | 5530        | 5910        | 6350        | 6640        | 6970        | 7410        | 8000        | -           |             |
| <b>Input HP</b>      | <b>40.4</b> | <b>32.3</b> | <b>30.3</b> | <b>25.2</b> | <b>20.3</b> | <b>16.1</b> | <b>13.1</b> | <b>11.5</b> | -           | <b>6185</b> |
| Output Torque in•lbs | 34600       | 32000       | 36300       | 37200       | 35200       | 32500       | 31900       | 34200       | -           |             |
| Overhung Load (lbs)  | 5180        | 5490        | 5840        | 6260        | 6570        | 6900        | 7360        | 7960        | -           |             |
| <b>Input HP</b>      | <b>47.2</b> | <b>41.2</b> | <b>32.6</b> | <b>28.1</b> | <b>24.4</b> | <b>20.5</b> | <b>18.1</b> | <b>15.8</b> | -           | <b>6190</b> |
| Output Torque in•lbs | 40400       | 40900       | 39100       | 41300       | 42500       | 41300       | 44100       | 47000       | -           |             |
| Overhung Load (lbs)  | 7360        | 7760        | 8220        | 8880        | 9280        | 9740        | 10300       | 11200       | -           |             |
| <b>Input HP</b>      | <b>54.4</b> | <b>50.7</b> | <b>40.4</b> | <b>40.4</b> | <b>28.1</b> | <b>25.2</b> | <b>20.9</b> | <b>18.3</b> | -           | <b>6195</b> |
| Output Torque in•lbs | 46400       | 50300       | 48400       | 59500       | 49000       | 51000       | 50800       | 54400       | -           |             |
| Overhung Load (lbs)  | 7320        | 7690        | 8160        | 8750        | 9240        | 9680        | 10300       | 11100       | -           |             |
| <b>Input HP</b>      | -           | <b>61.3</b> | -           | <b>42.7</b> | -           | <b>30.3</b> | -           | <b>21.3</b> | -           | <b>6205</b> |
| Output Torque in•lbs | -           | 60700       | -           | 62800       | -           | 61100       | -           | 63500       | -           |             |
| Overhung Load (lbs)  | -           | 14400       | -           | 16300       | -           | 17800       | -           | 18900       | -           |             |
| <b>Input HP</b>      | -           | <b>78.5</b> | -           | <b>60.7</b> | -           | <b>50.6</b> | -           | <b>28.7</b> | -           | <b>6215</b> |
| Output Torque in•lbs | -           | 77800       | -           | 89400       | -           | 102000      | -           | 85400       | -           |             |
| Overhung Load (lbs)  | -           | 14600       | -           | 16500       | -           | 17900       | -           | 20300       | -           |             |
| <b>Input HP</b>      | -           | <b>101</b>  | -           | <b>75.8</b> | -           | <b>60.7</b> | -           | <b>35.8</b> | -           | <b>6225</b> |
| Output Torque in•lbs | -           | 99800       | -           | 111000      | -           | 122000      | -           | 107000      | -           |             |
| Overhung Load (lbs)  | -           | 15300       | -           | 17400       | -           | 18900       | -           | 21400       | -           |             |

Speed Reducers

Selection Tables

# Frame Size Selection Tables 1165 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

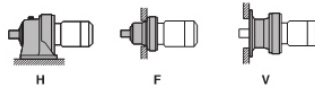
| Output RPM Ratio       | 388<br>3 <sup>[1]</sup> | 233<br>5 <sup>[1]</sup> | 194<br>6    | 146<br>8    | 106<br>11   | 89.6<br>13  | 77.7<br>15  | 68.5<br>17  | 55.5<br>21  | FRAME SIZE                 |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
| <b>Input HP</b>        | -                       | -                       | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.24</b> | <b>0.20</b> | <b>6060</b>                |
| Output Torque (in•lbs) | -                       | -                       | 82.7        | 110         | 151         | 179         | 207         | 213         | 213         |                            |
| Overhung Load (lbs)    | -                       | -                       | 193         | 220         | 265         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.38</b> | <b>0.35</b> | <b>0.31</b> | <b>0.25</b> | <b>6065</b>                |
| Output Torque (in•lbs) | -                       | -                       | 119         | 157         | 217         | 257         | 266         | 266         | 266         |                            |
| Overhung Load (lbs)    | -                       | -                       | 191         | 218         | 265         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.46</b> | <b>0.37</b> | <b>6070</b>                |
| Output Torque (in•lbs) | -                       | -                       | 143         | 191         | 263         | 311         | 358         | 398         | 398         |                            |
| Overhung Load (lbs)    | -                       | -                       | 331         | 364         | 397         | 397         | 397         | 397         | 397         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.55</b> | <b>0.49</b> | <b>6075</b>                |
| Output Torque (in•lbs) | -                       | -                       | 168         | 224         | 309         | 365         | 420         | 477         | 531         |                            |
| Overhung Load (lbs)    | -                       | -                       | 331         | 362         | 397         | 397         | 397         | 397         | 397         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.63</b> | <b>6080</b>                |
| Output Torque (in•lbs) | -                       | -                       | 245         | 326         | 449         | 531         | 612         | 694         | 683         |                            |
| Overhung Load (lbs)    | -                       | -                       | 461         | 496         | 547         | 575         | 575         | 575         | 575         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>1.01</b> | <b>0.63</b> | <b>6085</b>                |
| Output Torque (in•lbs) | -                       | -                       | 321         | 429         | 589         | 696         | 804         | 885         | 683         |                            |
| Overhung Load (lbs)    | -                       | -                       | 456         | 492         | 540         | 575         | 575         | 575         | 575         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.52</b> | <b>1.02</b> | <b>6090</b>                |
| Output Torque (in•lbs) | -                       | -                       | 474         | 632         | 868         | 1020        | 1190        | 1330        | 1090        |                            |
| Overhung Load (lbs)    | -                       | -                       | 677         | 750         | 750         | 750         | 750         | 750         | 750         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.04</b> | <b>2.03</b> | <b>1.64</b> | <b>6095</b>                |
| Output Torque (in•lbs) | -                       | -                       | 627         | 835         | 1160        | 1350        | 1560        | 1770        | 1770        |                            |
| Overhung Load (lbs)    | -                       | -                       | 670         | 739         | 750         | 750         | 750         | 750         | 750         |                            |
| <b>Input HP</b>        | <b>3.15</b>             | <b>3.15</b>             | <b>3.15</b> | <b>3.15</b> | <b>3.15</b> | <b>3.15</b> | <b>2.87</b> | <b>2.54</b> | <b>2.05</b> | <b>6100</b>                |
| Output Torque (in•lbs) | 487                     | 814                     | 972         | 1290        | 1780        | 2110        | 2210        | 2210        | 2210        |                            |
| Overhung Load (lbs)    | 781                     | 925                     | 983         | 1090        | 1210        | 1210        | 1210        | 1210        | 1210        |                            |
| <b>Input HP</b>        | <b>4.26</b>             | <b>4.26</b>             | <b>4.27</b> | <b>4.27</b> | <b>4.27</b> | <b>3.97</b> | <b>3.45</b> | <b>3.05</b> | <b>2.46</b> | <b>6105</b><br><b>610H</b> |
| Output Torque (in•lbs) | 655                     | 1097                    | 1320        | 1750        | 2400        | 2660        | 2660        | 2660        | 2660        |                            |
| Overhung Load (lbs)    | 770                     | 914                     | 970         | 1080        | 1210        | 1210        | 1210        | 1210        | 1210        |                            |
| <b>Input HP</b>        | -                       | -                       | <b>4.77</b> | <b>4.77</b> | <b>4.77</b> | <b>4.77</b> | <b>4.13</b> | <b>3.65</b> | <b>2.95</b> | <b>6110</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1470        | 1950        | 2690        | 3180        | 3190        | 3190        | 3190        |                            |
| Overhung Load (lbs)    | -                       | -                       | 1100        | 1230        | 1390        | 1430        | 1530        | 1560        | 1660        |                            |
| <b>Input HP</b>        | -                       | -                       | <b>5.26</b> | <b>5.26</b> | <b>5.26</b> | <b>5.23</b> | <b>4.83</b> | <b>4.26</b> | <b>3.45</b> | <b>6115</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1620        | 2160        | 2980        | 3500        | 3720        | 3720        | 3720        |                            |
| Overhung Load (lbs)    | -                       | -                       | 1100        | 1220        | 1380        | 1420        | 1520        | 1540        | 1640        |                            |
| <b>Input HP</b>        | <b>6.80</b>             | <b>6.80</b>             | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>6.81</b> | <b>6.03</b> | <b>5.28</b> | <b>4.28</b> | <b>6120</b>                |
| Output Torque (in•lbs) | 1053                    | 1752                    | 2100        | 2790        | 3840        | 4540        | 4640        | 4600        | 4620        |                            |
| Overhung Load (lbs)    | 981                     | 1165                    | 1240        | 1380        | 1550        | 1600        | 1720        | 1750        | 1940        |                            |
| <b>Input HP</b>        | <b>7.15</b>             | <b>7.15</b>             | <b>9.34</b> | <b>9.15</b> | <b>7.93</b> | <b>7.17</b> | <b>7.23</b> | <b>6.39</b> | <b>5.17</b> | <b>6125</b><br><b>612H</b> |
| Output Torque (in•lbs) | 1106                    | 1840                    | 2870        | 3760        | 4480        | 4770        | 5570        | 5570        | 5570        |                            |
| Overhung Load (lbs)    | 965                     | 1145                    | 1220        | 1350        | 1540        | 1590        | 1700        | 1730        | 1910        |                            |
| <b>Input HP</b>        | <b>12.6</b>             | <b>12.6</b>             | <b>12.6</b> | <b>12.6</b> | <b>12.2</b> | <b>10.3</b> | <b>8.97</b> | <b>7.91</b> | <b>6.4</b>  | <b>6130</b>                |
| Output Torque (in•lbs) | 1938                    | 3238                    | 3890        | 5170        | 6900        | 6900        | 6900        | 6900        | 6900        |                            |
| Overhung Load (lbs)    | 1120                    | 1329                    | 1410        | 1570        | 1780        | 1880        | 1930        | 2080        | 2250        |                            |
| <b>Input HP</b>        | <b>15.2</b>             | <b>15.2</b>             | <b>15.2</b> | <b>14.1</b> | <b>14.4</b> | <b>11.6</b> | <b>10.8</b> | <b>9.53</b> | <b>7.64</b> | <b>6135</b>                |
| Output Torque (in•lbs) | 2336                    | 3893                    | 4670        | 5790        | 8110        | 7750        | 8320        | 8320        | 8230        |                            |
| Overhung Load (lbs)    | 1102                    | 1309                    | 1390        | 1550        | 1760        | 1860        | 1900        | 2050        | 2200        |                            |
| <b>Input HP</b>        | <b>17.4</b>             | <b>17.4</b>             | <b>17.4</b> | <b>17.4</b> | <b>17.4</b> | <b>16.2</b> | <b>14.1</b> | <b>12.4</b> | <b>10.1</b> | <b>6140</b>                |
| Output Torque (in•lbs) | 2690                    | 4477                    | 5390        | 7180        | 9900        | 10900       | 10900       | 10900       | 10900       |                            |
| Overhung Load (lbs)    | 1749                    | 2075                    | 2200        | 2450        | 2730        | 2780        | 2950        | 3090        | 3310        |                            |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.



# 1165 RPM Frame Size Selection Tables

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.2–4.19  |
| F-Flange (F)   | 4.36–4.46 |
| V-Flange (V)   | 4.62–4.80 |



## Single Reduction, Ratios 25-119 H, F, V Housing Styles

| Output RPM Ratio       | 46.6<br>25  | 40.2<br>29  | 33.3<br>35  | 27.1<br>43  | 22.8<br>51  | 19.7<br>59  | 16.4<br>71  | 13.4<br>87  | 9.79<br>119 | FRAME SIZE   |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>Input HP</b>        | <b>0.15</b> | <b>0.14</b> | <b>0.12</b> | <b>0.10</b> | -           | -           | -           | -           | -           |              |
| Output Torque (in•lbs) | 189         | 213         | 213         | 213         | -           | -           | -           | -           | -           | 6060         |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | -           | -           | -           | -           | -           |              |
| <b>Input HP</b>        | <b>0.21</b> | <b>0.18</b> | <b>0.15</b> | <b>0.12</b> | -           | -           | -           | -           | -           | 6065         |
| Output Torque (in•lbs) | 266         | 266         | 266         | 266         | -           | -           | -           | -           | -           |              |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | -           | -           | -           | -           | -           |              |
| <b>Input HP</b>        | <b>0.31</b> | <b>0.27</b> | <b>0.22</b> | <b>0.18</b> | <b>0.13</b> | <b>0.13</b> | -           | -           | -           | 6070         |
| Output Torque (in•lbs) | 396         | 398         | 398         | 398         | 352         | 398         | -           | -           | -           |              |
| Overhung Load (lbs)    | 397         | 397         | 397         | 397         | 397         | 397         | -           | -           | -           |              |
| <b>Input HP</b>        | <b>0.38</b> | <b>0.35</b> | <b>0.30</b> | <b>0.24</b> | <b>0.18</b> | <b>0.15</b> | -           | -           | -           | 6075         |
| Output Torque (in•lbs) | 483         | 528         | 531         | 531         | 479         | 468         | -           | -           | -           |              |
| Overhung Load (lbs)    | 397         | 397         | 397         | 373         | 366         | 373         | -           | -           | -           |              |
| <b>Input HP</b>        | <b>0.46</b> | <b>0.46</b> | <b>0.33</b> | <b>0.32</b> | <b>0.26</b> | <b>0.23</b> | <b>0.16</b> | <b>0.12</b> | -           | 6080         |
| Output Torque (in•lbs) | 586         | 680         | 604         | 707         | 675         | 707         | 587         | 540         | -           |              |
| Overhung Load (lbs)    | 575         | 569         | 575         | 571         | 564         | 564         | 575         | 575         | -           |              |
| <b>Input HP</b>        | <b>0.64</b> | <b>0.60</b> | <b>0.38</b> | <b>0.40</b> | <b>0.32</b> | <b>0.29</b> | <b>0.19</b> | <b>0.16</b> | -           | 6085         |
| Output Torque (in•lbs) | 818         | 885         | 681         | 868         | 848         | 885         | 698         | 727         | -           |              |
| Overhung Load (lbs)    | 551         | 516         | 575         | 531         | 525         | 518         | 556         | 547         | -           |              |
| <b>Input HP</b>        | <b>0.90</b> | <b>0.84</b> | <b>0.74</b> | <b>0.58</b> | <b>0.45</b> | <b>0.40</b> | <b>0.32</b> | <b>0.28</b> | <b>0.16</b> | 6090         |
| Output Torque (in•lbs) | 1160        | 1250        | 1330        | 1290        | 1170        | 1220        | 1170        | 1270        | 955         |              |
| Overhung Load (lbs)    | 745         | 743         | 741         | 745         | 745         | 745         | 743         | 747         | 743         |              |
| <b>Input HP</b>        | <b>1.14</b> | <b>1.05</b> | <b>0.93</b> | <b>0.72</b> | <b>0.49</b> | <b>0.40</b> | <b>0.32</b> | <b>0.30</b> | <b>0.16</b> | 6095         |
| Output Torque (in•lbs) | 1470        | 1560        | 1680        | 1590        | 1270        | 1220        | 1170        | 1340        | 955         |              |
| Overhung Load (lbs)    | 730         | 728         | 723         | 732         | 739         | 745         | 743         | 743         | 743         |              |
| <b>Input HP</b>        | <b>1.70</b> | <b>1.49</b> | <b>1.23</b> | <b>1.00</b> | <b>0.75</b> | <b>0.69</b> | <b>0.59</b> | <b>0.50</b> | <b>0.28</b> | 6100         |
| Output Torque (in•lbs) | 2190        | 2210        | 2210        | 2210        | 1960        | 2100        | 2140        | 2210        | 1730        |              |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        |              |
| <b>Input HP</b>        | <b>2.07</b> | <b>1.79</b> | <b>1.48</b> | <b>1.20</b> | <b>0.94</b> | <b>0.81</b> | <b>0.60</b> | <b>0.57</b> | <b>0.35</b> | 6105<br>610H |
| Output Torque (in•lbs) | 2660        | 2660        | 2660        | 2660        | 2460        | 2450        | 2200        | 2550        | 2150        |              |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1140        | 1200        |              |
| <b>Input HP</b>        | <b>2.48</b> | <b>2.13</b> | <b>1.77</b> | <b>1.45</b> | <b>1.22</b> | <b>1.05</b> | <b>0.87</b> | <b>0.71</b> | -           | 6110         |
| Output Torque (in•lbs) | 3190        | 3190        | 3190        | 3190        | 3190        | 3190        | 3190        | 3190        | -           |              |
| Overhung Load (lbs)    | 1650        | 1620        | 1640        | 1710        | 1710        | 1710        | 1700        | 1710        | -           |              |
| <b>Input HP</b>        | <b>2.90</b> | <b>2.50</b> | <b>2.07</b> | <b>1.68</b> | <b>1.42</b> | <b>1.23</b> | <b>1.02</b> | <b>0.83</b> | -           | 6115         |
| Output Torque (in•lbs) | 3720        | 3720        | 3720        | 3720        | 3720        | 3720        | 3710        | 3720        | -           |              |
| Overhung Load (lbs)    | 1610        | 1580        | 1590        | 1660        | 1660        | 1670        | 1670        | 1660        | -           |              |
| <b>Input HP</b>        | <b>3.62</b> | <b>3.09</b> | <b>2.59</b> | <b>2.11</b> | <b>1.77</b> | <b>1.53</b> | <b>1.28</b> | <b>1.04</b> | -           | 6120         |
| Output Torque (in•lbs) | 4640        | 4600        | 4640        | 4640        | 4640        | 4640        | 4640        | 4640        | -           |              |
| Overhung Load (lbs)    | 2040        | 2130        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | -           |              |
| <b>Input HP</b>        | <b>4.35</b> | <b>3.74</b> | <b>3.1</b>  | <b>2.52</b> | <b>2.13</b> | <b>1.84</b> | <b>1.29</b> | <b>1.17</b> | -           | 6125<br>612H |
| Output Torque (in•lbs) | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 4700        | 5200        | -           |              |
| Overhung Load (lbs)    | 2020        | 2110        | 2200        | 2200        | 2200        | 2200        | 2200        | 2170        | -           |              |
| <b>Input HP</b>        | <b>5.38</b> | <b>4.63</b> | <b>3.84</b> | <b>3.13</b> | <b>2.78</b> | <b>2.40</b> | <b>2.00</b> | <b>1.62</b> | -           | 6130         |
| Output Torque (in•lbs) | 6900        | 6900        | 6900        | 6900        | 7270        | 7270        | 7270        | 7270        | -           |              |
| Overhung Load (lbs)    | 2340        | 2470        | 2600        | 2820        | 2950        | 3110        | 3310        | 3310        | -           |              |
| <b>Input HP</b>        | <b>6.20</b> | <b>5.54</b> | <b>4.63</b> | <b>3.77</b> | <b>2.90</b> | <b>2.77</b> | <b>2.30</b> | <b>1.88</b> | -           | 6135         |
| Output Torque (in•lbs) | 7960        | 8250        | 8320        | 8320        | 7580        | 8380        | 8380        | 8380        | -           |              |
| Overhung Load (lbs)    | 2310        | 2450        | 2580        | 2780        | 2950        | 3090        | 3280        | 3310        | -           |              |
| <b>Input HP</b>        | <b>8.44</b> | <b>7.28</b> | <b>6.03</b> | <b>4.91</b> | <b>4.13</b> | <b>3.58</b> | <b>2.98</b> | <b>2.43</b> | -           | 6140         |
| Output Torque (in•lbs) | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | -           |              |
| Overhung Load (lbs)    | 3460        | 3550        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | -           |              |

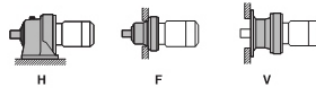
Speed Reducers

Selection Tables



# Frame Size Selection Tables 1165 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



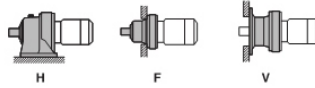
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio       | 388<br>3 <sup>[1]</sup> | 233<br>5 <sup>[1]</sup> | 194<br>6    | 146<br>8    | 106<br>11   | 89.6<br>13  | 77.7<br>15  | 68.5<br>17  | 55.5<br>21  | FRAME SIZE  |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Input HP</b>        | <b>18.6</b>             | <b>18.6</b>             | <b>18.7</b> | <b>17.9</b> | <b>18.5</b> | <b>18.1</b> | <b>15.6</b> | <b>13.8</b> | <b>10.8</b> | <b>6145</b> |
| Output Torque (in•lbs) | 2876                    | 4796                    | 5760        | 7330        | 10400       | 12100       | 12100       | 12200       | 11600       | <b>614H</b> |
| Overhung Load (lbs)    | 1747                    | 2070                    | 2200        | 2450        | 2710        | 2780        | 2930        | 3060        | 3280        |             |
| <b>Input HP</b>        | <b>27.0</b>             | <b>27.0</b>             | <b>27.2</b> | <b>26.4</b> | <b>26.4</b> | <b>23.2</b> | <b>20.1</b> | <b>17.6</b> | <b>14.4</b> | <b>6160</b> |
| Output Torque (in•lbs) | 4159                    | 6928                    | 8380        | 10900       | 14900       | 15500       | 15500       | 15300       | 15500       |             |
| Overhung Load (lbs)    | 1888                    | 2239                    | 2430        | 2690        | 3040        | 3200        | 3400        | 3530        | 3810        |             |
| <b>Input HP</b>        | <b>27.0</b>             | <b>27.0</b>             | <b>32.3</b> | <b>32.3</b> | <b>32.3</b> | <b>27.8</b> | <b>24.2</b> | <b>21.3</b> | <b>17.2</b> | <b>6165</b> |
| Output Torque (in•lbs) | 4159                    | 6928                    | 9900        | 13300       | 18200       | 18600       | 18600       | 18600       | 18600       | <b>616H</b> |
| Overhung Load (lbs)    | 1888                    | 2239                    | 2380        | 2650        | 2980        | 3150        | 3350        | 3480        | 3770        |             |
| <b>Input HP</b>        | <b>37.0</b>             | <b>37.0</b>             | <b>37.0</b> | <b>37.0</b> | <b>37.0</b> | <b>33.6</b> | <b>29.1</b> | <b>25.6</b> | <b>20.8</b> | <b>6170</b> |
| Output Torque (in•lbs) | 5707                    | 9512                    | 11400       | 15200       | 20900       | 22400       | 22400       | 22400       | 22400       |             |
| Overhung Load (lbs)    | 2155                    | 2557                    | 2710        | 3000        | 3400        | 3550        | 3730        | 3900        | 4300        |             |
| <b>Input HP</b>        | <b>40.4</b>             | <b>40.4</b>             | <b>40.4</b> | <b>40.4</b> | <b>40.4</b> | <b>40.4</b> | <b>34.1</b> | <b>31.9</b> | <b>25.9</b> | <b>6175</b> |
| Output Torque (in•lbs) | 6229                    | 10379                   | 12500       | 16700       | 22800       | 27000       | 26300       | 27900       | 27900       |             |
| Overhung Load (lbs)    | 2138                    | 2535                    | 2690        | 2980        | 3350        | 3460        | 3660        | 3810        | 4210        |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>47.2</b> | <b>47.2</b> | <b>43.5</b> | <b>41.1</b> | <b>33.3</b> | <b>6180</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 26700       | 31500       | 33400       | 35800       | 35800       |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 4560        | 4720        | 4960        | 5270        | 5730        |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>52.3</b> | <b>52.3</b> | <b>45.6</b> | <b>43.4</b> | <b>41.1</b> | <b>6185</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 29500       | 35000       | 35200       | 37800       | 44300       |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 4540        | 4700        | 4940        | 5250        | 5640        |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>55.0</b> | <b>55.0</b> | <b>55.0</b> | <b>55.0</b> | <b>52.3</b> | <b>6190</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 31100       | 36700       | 42400       | 48100       | 56400       |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 6460        | 6680        | 6990        | 7360        | 7960        |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>64.6</b> | <b>64.6</b> | <b>64.6</b> | <b>64.6</b> | <b>64.6</b> | <b>6195</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 36500       | 43100       | 49700       | 56300       | 69600       |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 6420        | 6640        | 6920        | 7280        | 7850        |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>80.1</b> | -           | <b>80.1</b> | -           | <b>73.4</b> | <b>6205</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 45200       | -           | 61600       | -           | 79200       |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 12400       | -           | 13200       | -           | 14800       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>101</b>  | -           | <b>101</b>  | -           | <b>101</b>  | <b>6215</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 57000       | -           | 77900       | -           | 109000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 12400       | -           | 13300       | -           | 14900       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>134</b>  | -           | <b>134</b>  | -           | <b>121</b>  | <b>6225</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 75400       | -           | 102000      | -           | 131000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 13100       | -           | 14100       | -           | 15700       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>152</b>  | -           | <b>152</b>  | -           | <b>131</b>  | <b>6235</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 85700       | -           | 117000      | -           | 141000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 16400       | -           | 17500       | -           | 19700       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>177</b>  | -           | <b>177</b>  | -           | <b>161</b>  | <b>6245</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 99800       | -           | 136000      | -           | 174000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 18300       | -           | 19500       | -           | 21800       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>203</b>  | -           | <b>203</b>  | -           | <b>203</b>  | <b>6255</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 114000      | -           | 155000      | -           | 218000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 22500       | -           | 24000       | -           | 26500       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>235</b>  | -           | <b>235</b>  | -           | <b>231</b>  | <b>6265</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 133000      | -           | 181000      | -           | 248000      |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 27300       | -           | 29300       | -           | 32600       |             |
| <b>Input HP</b>        | -                       | -                       | -           | -           | -           | -           | -           | -           | -           | <b>6275</b> |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |             |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |             |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 1165 RPM Frame Size Selection Tables

Dimensions:      Pages  
 Foot Mount (H) 4.2–4.19  
 F-Flange (F) 4.36–4.46  
 V-Flange (V) 4.62–4.80



Single Reduction, Ratios 25-119  
 H, F, V Housing Styles

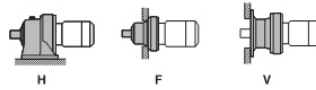
| Output RPM Ratio       | 46.6<br>25  | 40.2<br>29  | 33.3<br>35  | 27.1<br>43  | 22.8<br>51  | 19.7<br>59  | 16.4<br>71  | 13.4<br>87  | 9.79<br>119 | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Input HP</b>        | <b>9.45</b> | <b>8.15</b> | <b>6.75</b> | <b>5.30</b> | <b>4.20</b> | <b>3.61</b> | <b>2.98</b> | <b>2.46</b> | -           |            |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 11700       | 10900       | 10900       | 10900       | 10900       | -           | 6145       |
| Overhung Load (lbs)    | 3460        | 3530        | 3590        | 3570        | 3590        | 3590        | 3590        | 3590        | -           | 614H       |
| <b>Input HP</b>        | <b>12.1</b> | <b>10.4</b> | <b>8.64</b> | <b>6.95</b> | <b>5.93</b> | <b>5.13</b> | <b>4.26</b> | <b>3.48</b> | -           |            |
| Output Torque (in•lbs) | 15500       | 15500       | 15500       | 15400       | 15500       | 15500       | 15500       | 15500       | -           | 6160       |
| Overhung Load (lbs)    | 4010        | 4210        | 4500        | 4830        | 4960        | 4960        | 4960        | 4960        | -           |            |
| <b>Input HP</b>        | <b>14.5</b> | <b>12.5</b> | <b>10.3</b> | <b>8.42</b> | <b>7.10</b> | <b>6.13</b> | <b>5.10</b> | <b>4.07</b> | -           |            |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18100       | -           | 6165       |
| Overhung Load (lbs)    | 3970        | 4170        | 4450        | 4760        | 4960        | 4960        | 4960        | 4890        | -           | 616H       |
| <b>Input HP</b>        | <b>17.4</b> | <b>15.0</b> | <b>12.5</b> | <b>10.1</b> | <b>8.55</b> | <b>7.39</b> | <b>6.15</b> | <b>5.01</b> | -           |            |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | -           | 6170       |
| Overhung Load (lbs)    | 4480        | 4740        | 5050        | 5420        | 5670        | 5950        | 6330        | 6640        | -           |            |
| <b>Input HP</b>        | <b>21.7</b> | <b>18.7</b> | <b>15.6</b> | <b>12.6</b> | <b>10.6</b> | <b>9.20</b> | <b>7.64</b> | <b>6.24</b> | -           |            |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | -           | 6175       |
| Overhung Load (lbs)    | 4410        | 4650        | 4960        | 5340        | 5600        | 5890        | 6260        | 6640        | -           |            |
| <b>Input HP</b>        | <b>27.9</b> | <b>24.0</b> | <b>20.0</b> | <b>16.2</b> | <b>13.7</b> | <b>11.8</b> | <b>9.83</b> | <b>8.03</b> | -           |            |
| Output Torque (in•lbs) | 35800       | 35800       | 35800       | 35900       | 35800       | 35800       | 35800       | 35900       | -           | 6180       |
| Overhung Load (lbs)    | 5970        | 6260        | 6750        | 7250        | 7560        | 7940        | 8440        | 9130        | -           |            |
| <b>Input HP</b>        | <b>34.5</b> | <b>29.7</b> | <b>24.6</b> | <b>20.0</b> | <b>16.9</b> | <b>14.6</b> | <b>11.0</b> | <b>9.9</b>  | -           |            |
| Output Torque (in•lbs) | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       | 39900       | 44300       | -           | 6185       |
| Overhung Load (lbs)    | 5890        | 6190        | 6680        | 7170        | 7470        | 7850        | 8400        | 9060        | -           |            |
| <b>Input HP</b>        | <b>44.0</b> | <b>38.0</b> | <b>31.4</b> | <b>25.2</b> | <b>21.6</b> | <b>18.7</b> | <b>15.4</b> | <b>12.6</b> | -           |            |
| Output Torque (in•lbs) | 56400       | 56400       | 56400       | 55800       | 56400       | 56400       | 56400       | 56400       | -           | 6190       |
| Overhung Load (lbs)    | 8360        | 8820        | 9350        | 10100       | 10600       | 11100       | 11800       | 12800       | -           |            |
| <b>Input HP</b>        | <b>54.4</b> | <b>47.2</b> | <b>39.2</b> | <b>30.9</b> | <b>26.8</b> | <b>23.2</b> | <b>19.3</b> | <b>15.7</b> | -           |            |
| Output Torque (in•lbs) | 69700       | 70400       | 70400       | 68100       | 70400       | 70400       | 70400       | 70400       | -           | 6195       |
| Overhung Load (lbs)    | 8250        | 8690        | 9240        | 10000       | 10400       | 11000       | 11700       | 12700       | -           |            |
| <b>Input HP</b>        | -           | <b>53.2</b> | -           | <b>37.3</b> | -           | <b>26.2</b> | -           | <b>17.3</b> | -           |            |
| Output Torque (in•lbs) | -           | 79200       | -           | 82300       | -           | 79200       | -           | 77500       | -           | 6205       |
| Overhung Load (lbs)    | -           | 16200       | -           | 18300       | -           | 18900       | -           | 18900       | -           |            |
| <b>Input HP</b>        | -           | <b>75.2</b> | -           | <b>50.7</b> | -           | <b>36.9</b> | -           | <b>22.3</b> | -           |            |
| Output Torque (in•lbs) | -           | 112000      | -           | 112000      | -           | 112000      | -           | 99800       | -           | 6215       |
| Overhung Load (lbs)    | -           | 16300       | -           | 18500       | -           | 20200       | -           | 22900       | -           |            |
| <b>Input HP</b>        | -           | <b>89.4</b> | -           | <b>64.2</b> | -           | <b>44.7</b> | -           | <b>29.8</b> | -           |            |
| Output Torque (in•lbs) | -           | 133000      | -           | 141000      | -           | 135000      | -           | 134000      | -           | 6225       |
| Overhung Load (lbs)    | -           | 17200       | -           | 19500       | -           | 21300       | -           | 24000       | -           |            |
| <b>Input HP</b>        | -           | <b>101</b>  | -           | <b>72.9</b> | -           | <b>50.6</b> | -           | <b>32.2</b> | -           |            |
| Output Torque (in•lbs) | -           | 150000      | -           | 161000      | -           | 153000      | -           | 143000      | -           | 6235       |
| Overhung Load (lbs)    | -           | 21600       | -           | 24300       | -           | 26700       | -           | 30200       | -           |            |
| <b>Input HP</b>        | -           | <b>126</b>  | -           | <b>101</b>  | -           | <b>75.4</b> | -           | <b>43.1</b> | -           |            |
| Output Torque (in•lbs) | -           | 188000      | -           | 223000      | -           | 228000      | -           | 192000      | -           | 6245       |
| Overhung Load (lbs)    | -           | 24000       | -           | 26900       | -           | 29500       | -           | 33500       | -           |            |
| <b>Input HP</b>        | -           | <b>158</b>  | -           | <b>119</b>  | -           | <b>87</b>   | -           | <b>57.6</b> | -           |            |
| Output Torque (in•lbs) | -           | 236000      | -           | 264000      | -           | 264000      | -           | 257000      | -           | 6255       |
| Overhung Load (lbs)    | -           | 29500       | -           | 33100       | -           | 36200       | -           | 41000       | -           |            |
| <b>Input HP</b>        | -           | <b>213</b>  | -           | <b>152</b>  | -           | <b>126</b>  | -           | <b>71.7</b> | -           |            |
| Output Torque (in•lbs) | -           | 318000      | -           | 334000      | -           | 383000      | -           | 320000      | -           | 6265       |
| Overhung Load (lbs)    | -           | 35900       | -           | 40300       | -           | 44300       | -           | 49800       | -           |            |
| <b>Input HP</b>        | -           | <b>213</b>  | -           | <b>203</b>  | -           | <b>177</b>  | -           | <b>71.7</b> | -           |            |
| Output Torque (in•lbs) | -           | 318000      | -           | 447000      | -           | 536000      | -           | 320000      | -           | 6275       |
| Overhung Load (lbs)    | -           | 41900       | -           | 55800       | -           | 55600       | -           | 46700       | -           |            |

Speed Reducers

Selection Tables

# Frame Size Selection Tables 870 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

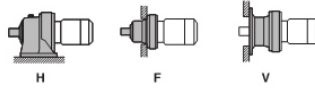
| Output RPM Ratio       | 290<br>3 <sup>[1]</sup> | 174<br>5 <sup>[1]</sup> | 145<br>6    | 109<br>8    | 79.1<br>11  | 66.9<br>13  | 58.0<br>15  | 51.2<br>17  | 41.4<br>21  | FRAME SIZE                 |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
| <b>Input HP</b>        | -                       | -                       | <b>0.27</b> | <b>0.27</b> | <b>0.27</b> | <b>0.24</b> | <b>0.21</b> | <b>0.18</b> | <b>0.15</b> | <b>6060</b>                |
| Output Torque (in•lbs) | -                       | -                       | 110         | 148         | 202         | 213         | 213         | 213         | 213         |                            |
| Overhung Load (lbs)    | -                       | -                       | 211         | 240         | 265         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.38</b> | <b>0.38</b> | <b>0.35</b> | <b>0.30</b> | <b>0.26</b> | <b>0.23</b> | <b>0.18</b> | <b>6065</b>                |
| Output Torque (in•lbs) | -                       | -                       | 158         | 212         | 266         | 266         | 266         | 266         | 266         |                            |
| Overhung Load (lbs)    | -                       | -                       | 209         | 227         | 256         | 265         | 265         | 265         | 265         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.47</b> | <b>0.47</b> | <b>0.47</b> | <b>0.45</b> | <b>0.39</b> | <b>0.34</b> | <b>0.28</b> | <b>6070</b>                |
| Output Torque (in•lbs) | -                       | -                       | 192         | 256         | 352         | 398         | 398         | 398         | 398         |                            |
| Overhung Load (lbs)    | -                       | -                       | 362         | 397         | 397         | 397         | 397         | 397         | 397         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.55</b> | <b>0.49</b> | <b>0.53</b> | <b>0.50</b> | <b>0.50</b> | <b>0.45</b> | <b>0.37</b> | <b>6075</b>                |
| Output Torque (in•lbs) | -                       | -                       | 226         | 266         | 404         | 446         | 510         | 531         | 531         |                            |
| Overhung Load (lbs)    | -                       | -                       | 359         | 397         | 397         | 397         | 397         | 397         | 397         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.79</b> | <b>0.69</b> | <b>0.61</b> | <b>0.47</b> | <b>6080</b>                |
| Output Torque (in•lbs) | -                       | -                       | 328         | 437         | 601         | 707         | 707         | 707         | 683         |                            |
| Overhung Load (lbs)    | -                       | -                       | 503         | 545         | 575         | 575         | 575         | 575         | 575         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.04</b> | <b>1.04</b> | <b>1.04</b> | <b>0.99</b> | <b>0.86</b> | <b>0.76</b> | <b>0.47</b> | <b>6085</b>                |
| Output Torque (in•lbs) | -                       | -                       | 431         | 575         | 786         | 885         | 885         | 885         | 683         |                            |
| Overhung Load (lbs)    | -                       | -                       | 498         | 538         | 575         | 575         | 575         | 575         | 575         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.54</b> | <b>1.54</b> | <b>1.54</b> | <b>1.49</b> | <b>1.29</b> | <b>1.14</b> | <b>0.92</b> | <b>6090</b>                |
| Output Torque (in•lbs) | -                       | -                       | 635         | 846         | 1160        | 1330        | 1330        | 1330        | 1330        |                            |
| Overhung Load (lbs)    | -                       | -                       | 739         | 750         | 750         | 750         | 750         | 750         | 750         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>2.04</b> | <b>2.04</b> | <b>1.92</b> | <b>1.85</b> | <b>1.72</b> | <b>1.52</b> | <b>1.23</b> | <b>6095</b>                |
| Output Torque (in•lbs) | -                       | -                       | 838         | 1110        | 1450        | 1660        | 1770        | 1770        | 1770        |                            |
| Overhung Load (lbs)    | -                       | -                       | 728         | 750         | 750         | 750         | 750         | 750         | 750         |                            |
| <b>Input HP</b>        | <b>3.15</b>             | <b>3.15</b>             | <b>3.15</b> | <b>3.15</b> | <b>2.93</b> | <b>2.47</b> | <b>2.15</b> | <b>1.89</b> | <b>1.53</b> | <b>6100</b>                |
| Output Torque (in•lbs) | 655                     | 1088                    | 1300        | 1740        | 2210        | 2210        | 2210        | 2210        | 2210        |                            |
| Overhung Load (lbs)    | 853                     | 1013                    | 1080        | 1190        | 1210        | 1210        | 1210        | 1210        | 1210        |                            |
| <b>Input HP</b>        | <b>3.66</b>             | <b>3.66</b>             | <b>3.66</b> | <b>3.41</b> | <b>3.50</b> | <b>2.97</b> | <b>2.58</b> | <b>2.27</b> | <b>1.84</b> | <b>6105</b><br><b>610H</b> |
| Output Torque (in•lbs) | 752                     | 1256                    | 1510        | 1870        | 2660        | 2660        | 2660        | 2660        | 2660        |                            |
| Overhung Load (lbs)    | 849                     | 1006                    | 1070        | 1190        | 1210        | 1210        | 1210        | 1210        | 1210        |                            |
| <b>Input HP</b>        | -                       | -                       | <b>4.15</b> | <b>4.77</b> | <b>4.21</b> | <b>3.57</b> | <b>3.09</b> | <b>2.72</b> | <b>2.20</b> | <b>6110</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1710        | 2620        | 3190        | 3190        | 3190        | 3190        | 3190        |                            |
| Overhung Load (lbs)    | -                       | -                       | 1210        | 1340        | 1530        | 1590        | 1700        | 1710        | 1710        |                            |
| <b>Input HP</b>        | -                       | -                       | <b>4.15</b> | <b>5.26</b> | <b>4.91</b> | <b>4.16</b> | <b>3.61</b> | <b>3.18</b> | <b>2.58</b> | <b>6115</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1710        | 2890        | 3720        | 3720        | 3720        | 3720        | 3720        |                            |
| Overhung Load (lbs)    | -                       | -                       | 1210        | 1330        | 1510        | 1570        | 1690        | 1690        | 1680        |                            |
| <b>Input HP</b>        | <b>5.82</b>             | <b>5.82</b>             | <b>6.81</b> | <b>6.81</b> | <b>6.15</b> | <b>5.19</b> | <b>4.51</b> | <b>3.93</b> | <b>3.19</b> | <b>6120</b>                |
| Output Torque (in•lbs) | 1203                    | 2000                    | 2800        | 3740        | 4640        | 4640        | 4640        | 4600        | 4620        |                            |
| Overhung Load (lbs)    | 1073                    | 1273                    | 1350        | 1500        | 1700        | 1770        | 1910        | 1940        | 2140        |                            |
| <b>Input HP</b>        | <b>5.82</b>             | <b>5.82</b>             | <b>7.84</b> | <b>7.32</b> | <b>6.35</b> | <b>5.73</b> | <b>5.41</b> | <b>4.77</b> | <b>3.87</b> | <b>6125</b><br><b>612H</b> |
| Output Torque (in•lbs) | 1203                    | 2000                    | 3240        | 4030        | 4790        | 5120        | 5570        | 5570        | 5570        |                            |
| Overhung Load (lbs)    | 1062                    | 1260                    | 1340        | 1490        | 1700        | 1760        | 1890        | 1920        | 2120        |                            |
| <b>Input HP</b>        | <b>11.1</b>             | <b>11.1</b>             | <b>11.2</b> | <b>11.0</b> | <b>9.13</b> | <b>7.72</b> | <b>6.70</b> | <b>5.91</b> | <b>4.78</b> | <b>6130</b>                |
| Output Torque (in•lbs) | 2300                    | 3840                    | 4600        | 6030        | 6900        | 6900        | 6900        | 6900        | 6900        |                            |
| Overhung Load (lbs)    | 1228                    | 1455                    | 1550        | 1720        | 1980        | 2080        | 2140        | 2310        | 2470        |                            |
| <b>Input HP</b>        | <b>12.2</b>             | <b>12.2</b>             | <b>12.2</b> | <b>11.3</b> | <b>11.0</b> | <b>9.29</b> | <b>8.07</b> | <b>7.11</b> | <b>5.76</b> | <b>6135</b>                |
| Output Torque (in•lbs) | 2522                    | 4203                    | 5030        | 6210        | 8320        | 8300        | 8320        | 8320        | 8320        |                            |
| Overhung Load (lbs)    | 1217                    | 1444                    | 1530        | 1720        | 1950        | 2060        | 2110        | 2270        | 2450        |                            |
| <b>Input HP</b>        | <b>14.6</b>             | <b>14.6</b>             | <b>15.0</b> | <b>14.2</b> | <b>14.4</b> | <b>12.1</b> | <b>10.5</b> | <b>9.28</b> | <b>7.50</b> | <b>6140</b>                |
| Output Torque (in•lbs) | 3017                    | 5035                    | 6180        | 7850        | 10900       | 10900       | 10900       | 10900       | 10900       |                            |
| Overhung Load (lbs)    | 1906                    | 2261                    | 2400        | 2670        | 3000        | 3060        | 3220        | 3370        | 3590        |                            |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.



# 870 RPM Frame Size Selection Tables

Dimensions:      Pages  
 Foot Mount (H) 4.2-4.19  
 F-Flange (F) 4.36-4.46  
 V-Flange (V) 4.62-4.80



Single Reduction, Ratios 25-119  
 H, F, V Housing Styles

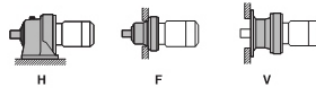
| Output RPM Ratio       | 34.8<br>25  | 30.0<br>29  | 24.9<br>35   | 20.2<br>43   | 17.1<br>51  | 14.7<br>59   | 12.3<br>71   | 10.0<br>87   | 7.31<br>119 | FRAME SIZE   |
|------------------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|
| <b>Input HP</b>        | <b>0.12</b> | <b>0.11</b> | <b>0.089</b> | <b>0.072</b> | -           | -            | -            | -            | -           |              |
| Output Torque (in•lbs) | 213         | 213         | 213          | 213          | -           | -            | -            | -            | -           | 6060         |
| Overhung Load (lbs)    | 265         | 265         | 265          | 265          | -           | -            | -            | -            | -           |              |
| <b>Input HP</b>        | <b>0.15</b> | <b>0.13</b> | <b>0.11</b>  | <b>0.090</b> | -           | -            | -            | -            | -           | 6065         |
| Output Torque (in•lbs) | 266         | 266         | 266          | 266          | -           | -            | -            | -            | -           |              |
| Overhung Load (lbs)    | 265         | 265         | 265          | 265          | -           | -            | -            | -            | -           |              |
| <b>Input HP</b>        | <b>0.23</b> | <b>0.20</b> | <b>0.17</b>  | <b>0.13</b>  | <b>0.11</b> | <b>0.098</b> | -            | -            | -           | 6070         |
| Output Torque (in•lbs) | 398         | 398         | 398          | 398          | 398         | 398          | -            | -            | -           |              |
| Overhung Load (lbs)    | 397         | 397         | 397          | 397          | 392         | 397          | -            | -            | -           |              |
| <b>Input HP</b>        | <b>0.30</b> | <b>0.27</b> | <b>0.22</b>  | <b>0.18</b>  | <b>0.14</b> | <b>0.12</b>  | -            | -            | -           | 6075         |
| Output Torque (in•lbs) | 516         | 531         | 531          | 531          | 503         | 502          | -            | -            | -           |              |
| Overhung Load (lbs)    | 397         | 397         | 397          | 373          | 355         | 359          | -            | -            | -           |              |
| <b>Input HP</b>        | <b>0.41</b> | <b>0.36</b> | <b>0.276</b> | <b>0.24</b>  | <b>0.20</b> | <b>0.17</b>  | <b>0.13</b>  | <b>0.12</b>  | -           | 6080         |
| Output Torque (in•lbs) | 707         | 707         | 652          | 707          | 707         | 707          | 652          | 707          | -           |              |
| Overhung Load (lbs)    | 575         | 562         | 575          | 571          | 558         | 564          | 564          | 551          | -           |              |
| <b>Input HP</b>        | <b>0.52</b> | <b>0.44</b> | <b>0.312</b> | <b>0.30</b>  | <b>0.25</b> | <b>0.22</b>  | <b>0.16</b>  | <b>0.15</b>  | -           | 6085         |
| Output Torque (in•lbs) | 885         | 885         | 751          | 885          | 885         | 885          | 770          | 885          | -           |              |
| Overhung Load (lbs)    | 531         | 516         | 545          | 527          | 514         | 518          | 540          | 507          | -           |              |
| <b>Input HP</b>        | <b>0.77</b> | <b>0.67</b> | <b>0.55</b>  | <b>0.45</b>  | <b>0.38</b> | <b>0.32</b>  | <b>0.24</b>  | <b>0.22</b>  | <b>0.12</b> | 6090         |
| Output Torque (in•lbs) | 1330        | 1330        | 1330         | 1330         | 1320        | 1290         | 1170         | 1330         | 955         |              |
| Overhung Load (lbs)    | 736         | 739         | 741          | 743          | 736         | 741          | 743          | 743          | 743         |              |
| <b>Input HP</b>        | <b>0.91</b> | <b>0.86</b> | <b>0.74</b>  | <b>0.58</b>  | <b>0.39</b> | <b>0.32</b>  | <b>0.24</b>  | <b>0.24</b>  | <b>0.12</b> | 6095         |
| Output Torque (in•lbs) | 1560        | 1710        | 1770         | 1710         | 1350        | 1290         | 1170         | 1430         | 955         |              |
| Overhung Load (lbs)    | 725         | 721         | 719          | 725          | 736         | 741          | 743          | 739          | 743         |              |
| <b>Input HP</b>        | <b>1.29</b> | <b>1.11</b> | <b>0.92</b>  | <b>0.75</b>  | <b>0.63</b> | <b>0.55</b>  | <b>0.45</b>  | <b>0.37</b>  | <b>0.27</b> | 6100         |
| Output Torque (in•lbs) | 2210        | 2210        | 2210         | 2210         | 2210        | 2210         | 2210         | 2210         | 2210        |              |
| Overhung Load (lbs)    | 1210        | 1210        | 1210         | 1210         | 1210        | 1210         | 1210         | 1210         | 1200        |              |
| <b>Input HP</b>        | <b>1.54</b> | <b>1.33</b> | <b>1.10</b>  | <b>0.90</b>  | <b>0.75</b> | <b>0.65</b>  | <b>0.48</b>  | <b>0.44</b>  | <b>0.28</b> | 6105<br>610H |
| Output Torque (in•lbs) | 2660        | 2660        | 2660         | 2660         | 2630        | 2620         | 2330         | 2660         | 2280        |              |
| Overhung Load (lbs)    | 1210        | 1210        | 1210         | 1210         | 1190        | 1140         | 1210         | 1070         | 1200        |              |
| <b>Input HP</b>        | <b>1.85</b> | <b>1.60</b> | <b>1.32</b>  | <b>1.08</b>  | <b>0.91</b> | <b>0.79</b>  | <b>0.65</b>  | <b>0.53</b>  | -           | 6110         |
| Output Torque (in•lbs) | 3190        | 3190        | 3190         | 3190         | 3190        | 3190         | 3190         | 3190         | -           |              |
| Overhung Load (lbs)    | 1650        | 1620        | 1640         | 1710         | 1710        | 1710         | 1700         | 1710         | -           |              |
| <b>Input HP</b>        | <b>2.16</b> | <b>1.87</b> | <b>1.54</b>  | <b>1.26</b>  | <b>1.06</b> | <b>0.917</b> | <b>0.761</b> | <b>0.621</b> | -           | 6115         |
| Output Torque (in•lbs) | 3720        | 3720        | 3720         | 3720         | 3720        | 3720         | 3720         | 3720         | -           |              |
| Overhung Load (lbs)    | 1610        | 1580        | 1590         | 1660         | 1660        | 1670         | 1660         | 1660         | -           |              |
| <b>Input HP</b>        | <b>2.70</b> | <b>2.31</b> | <b>1.93</b>  | <b>1.57</b>  | <b>1.32</b> | <b>1.14</b>  | <b>0.952</b> | <b>0.777</b> | -           | 6120         |
| Output Torque (in•lbs) | 4640        | 4600        | 4640         | 4640         | 4640        | 4640         | 4640         | 4640         | -           |              |
| Overhung Load (lbs)    | 2200        | 2200        | 2200         | 2200         | 2200        | 2200         | 2200         | 2200         | -           |              |
| <b>Input HP</b>        | <b>3.25</b> | <b>2.79</b> | <b>2.32</b>  | <b>1.88</b>  | <b>1.58</b> | <b>1.37</b>  | <b>1.03</b>  | <b>0.932</b> | -           | 6125<br>612H |
| Output Torque (in•lbs) | 5570        | 5570        | 5570         | 5570         | 5570        | 5570         | 5040         | 5570         | -           |              |
| Overhung Load (lbs)    | 2200        | 2200        | 2200         | 2200         | 2200        | 2200         | 2200         | 2150         | -           |              |
| <b>Input HP</b>        | <b>4.01</b> | <b>3.46</b> | <b>2.87</b>  | <b>2.34</b>  | <b>2.21</b> | <b>1.92</b>  | <b>1.60</b>  | <b>1.26</b>  | -           | 6130         |
| Output Torque (in•lbs) | 6900        | 6900        | 6900         | 6900         | 7790        | 7790         | 7790         | 7500         | -           |              |
| Overhung Load (lbs)    | 2580        | 2730        | 2890         | 3130         | 3260        | 3310         | 3310         | 3310         | -           |              |
| <b>Input HP</b>        | <b>4.63</b> | <b>4.17</b> | <b>3.46</b>  | <b>2.82</b>  | <b>2.31</b> | <b>2.21</b>  | <b>1.84</b>  | <b>1.45</b>  | -           | 6135         |
| Output Torque (in•lbs) | 7960        | 8320        | 8320         | 8320         | 8120        | 8940         | 8940         | 8660         | -           |              |
| Overhung Load (lbs)    | 2580        | 2710        | 2870         | 3110         | 3240        | 3310         | 3310         | 3310         | -           |              |
| <b>Input HP</b>        | <b>6.31</b> | <b>5.44</b> | <b>4.51</b>  | <b>3.66</b>  | <b>3.09</b> | <b>2.67</b>  | <b>2.21</b>  | <b>1.81</b>  | -           | 6140         |
| Output Torque (in•lbs) | 10900       | 10900       | 10900        | 10900        | 10900       | 10900        | 10900        | 10900        | -           |              |
| Overhung Load (lbs)    | 3590        | 3590        | 3590         | 3590         | 3590        | 3590         | 3590         | 3590         | -           |              |

Speed Reducers

Selection Tables

# Frame Size Selection Tables 870 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



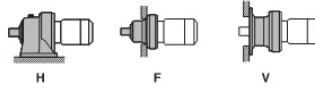
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio       | 290<br>3 <sup>[1]</sup> | 174<br>5 <sup>[1]</sup> | 145<br>6    | 109<br>8    | 79.1<br>11  | 66.9<br>13  | 58.0<br>15  | 51.2<br>17  | 41.4<br>21  | FRAME SIZE           |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| <b>Input HP</b>        | <b>14.6</b>             | <b>14.6</b>             | <b>15.0</b> | <b>14.2</b> | <b>14.8</b> | <b>13.6</b> | <b>11.7</b> | <b>10.4</b> | <b>8.20</b> | <b>6145<br/>614H</b> |
| Output Torque (in•lbs) | 3017                    | 5035                    | 6180        | 7850        | 11100       | 12200       | 12100       | 12200       | 11900       |                      |
| Overhung Load (lbs)    | 1906                    | 2261                    | 2400        | 2670        | 3000        | 3060        | 3200        | 3350        | 3590        |                      |
| <b>Input HP</b>        | <b>21.9</b>             | <b>21.9</b>             | <b>27.2</b> | <b>26.4</b> | <b>20.5</b> | <b>17.3</b> | <b>15.0</b> | <b>13.3</b> | <b>10.8</b> | <b>6160</b>          |
| Output Torque (in•lbs) | 4512                    | 7521                    | 11200       | 14500       | 15500       | 15500       | 15500       | 15500       | 15500       |                      |
| Overhung Load (lbs)    | 2068                    | 2452                    | 2620        | 2930        | 3350        | 3550        | 3770        | 3900        | 4230        |                      |
| <b>Input HP</b>        | <b>21.9</b>             | <b>21.9</b>             | <b>28.5</b> | <b>27.7</b> | <b>24.6</b> | <b>20.8</b> | <b>18.0</b> | <b>15.8</b> | <b>12.9</b> | <b>6165<br/>616H</b> |
| Output Torque (in•lbs) | 4512                    | 7521                    | 11700       | 15200       | 18600       | 18600       | 18600       | 18600       | 18600       |                      |
| Overhung Load (lbs)    | 2068                    | 2452                    | 2600        | 2890        | 3310        | 3480        | 3730        | 3860        | 4190        |                      |
| <b>Input HP</b>        | <b>37.0</b>             | <b>37.0</b>             | <b>37.0</b> | <b>37.0</b> | <b>29.7</b> | <b>25.0</b> | <b>21.7</b> | <b>19.2</b> | <b>15.6</b> | <b>6170</b>          |
| Output Torque (in•lbs) | 7645                    | 12741                   | 15300       | 20300       | 22400       | 22400       | 22400       | 22400       | 22400       |                      |
| Overhung Load (lbs)    | 2335                    | 2768                    | 2950        | 3240        | 3750        | 3920        | 4170        | 4370        | 4760        |                      |
| <b>Input HP</b>        | <b>39.8</b>             | <b>39.8</b>             | <b>39.9</b> | <b>40.4</b> | <b>36.9</b> | <b>31.1</b> | <b>27.0</b> | <b>23.9</b> | <b>19.3</b> | <b>6175</b>          |
| Output Torque (in•lbs) | 8229                    | 13706                   | 16500       | 22200       | 27900       | 27900       | 27900       | 27900       | 27900       |                      |
| Overhung Load (lbs)    | 2317                    | 2746                    | 2930        | 3200        | 3660        | 3840        | 4030        | 4280        | 4670        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>47.2</b> | <b>40.1</b> | <b>34.9</b> | <b>30.7</b> | <b>24.8</b> | <b>6180</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 35800       | 35900       | 35900       | 35900       | 35800       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 4960        | 5180        | 5510        | 5840        | 6330        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>52.3</b> | <b>48.6</b> | <b>36.5</b> | <b>34.6</b> | <b>30.6</b> | <b>6185</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 39600       | 43300       | 37600       | 40500       | 44300       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 4920        | 5090        | 5490        | 5780        | 6260        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>55.0</b> | <b>55.0</b> | <b>54.8</b> | <b>48.3</b> | <b>39.1</b> | <b>6190</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 41600       | 49200       | 56400       | 56400       | 56400       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 7050        | 7280        | 7630        | 8090        | 8820        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>64.6</b> | <b>64.6</b> | <b>60.8</b> | <b>60.3</b> | <b>48.7</b> | <b>6195</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 48900       | 57700       | 62800       | 70400       | 70400       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 6990        | 7190        | 7560        | 7960        | 8690        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>80.1</b> | -           | <b>78.3</b> | -           | <b>56.9</b> | <b>6205</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 60600       | -           | 80800       | -           | 82000       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 13400       | -           | 14400       | -           | 16200       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>101</b>  | -           | <b>101</b>  | -           | <b>76.6</b> | <b>6215</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 76500       | -           | 104000      | -           | 110000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 13500       | -           | 14400       | -           | 16300       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>134</b>  | -           | <b>124</b>  | -           | <b>90.7</b> | <b>6225</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 101000      | -           | 128000      | -           | 131000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 14200       | -           | 15300       | -           | 17200       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>152</b>  | -           | <b>152</b>  | -           | <b>116</b>  | <b>6235</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 115000      | -           | 156000      | -           | 168000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 17800       | -           | 18900       | -           | 21400       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>177</b>  | -           | <b>177</b>  | -           | <b>158</b>  | <b>6245</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 134000      | -           | 182000      | -           | 228000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 19800       | -           | 21100       | -           | 23600       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>203</b>  | -           | <b>203</b>  | -           | <b>191</b>  | <b>6255</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 153000      | -           | 209000      | -           | 274000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 24300       | -           | 26000       | -           | 28700       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>235</b>  | -           | <b>235</b>  | -           | <b>231</b>  | <b>6265</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 178000      | -           | 241000      | -           | 332000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 29800       | -           | 31700       | -           | 35500       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | -           | -           | -           | -           | -           | <b>6275</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |                      |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 870 RPM Frame Size Selection Tables

Dimensions:      Pages  
 Foot Mount (H) 4.2–4.19  
 F-Flange (F) 4.36–4.46  
 V-Flange (V) 4.62–4.80



Single Reduction, Ratios 25-119  
 H, F, V Housing Styles

| Output RPM Ratio       | 34.8<br>25  | 30.0<br>29  | 24.9<br>35  | 20.2<br>43  | 17.1<br>51  | 14.7<br>59  | 12.3<br>71  | 10.0<br>87  | 7.31<br>119 | FRAME SIZE  |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Input HP</b>        | <b>7.06</b> | <b>6.08</b> | <b>5.03</b> | <b>4.11</b> | <b>3.36</b> | <b>2.89</b> | <b>2.38</b> | <b>1.85</b> | -           |             |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 12200       | 11800       | 11700       | 11600       | 11000       | -           | <b>6145</b> |
| Overhung Load (lbs)    | 3590        | 3550        | 3590        | 3530        | 3570        | 3590        | 3590        | 3590        | -           | <b>614H</b> |
| <b>Input HP</b>        | <b>9.03</b> | <b>7.79</b> | <b>6.46</b> | <b>5.19</b> | <b>4.43</b> | <b>3.83</b> | <b>3.18</b> | <b>2.59</b> | -           |             |
| Output Torque (in•lbs) | 15500       | 15500       | 15500       | 15400       | 15500       | 15500       | 15500       | 15500       | -           | <b>6160</b> |
| Overhung Load (lbs)    | 4450        | 4670        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | -           |             |
| <b>Input HP</b>        | <b>10.8</b> | <b>9.32</b> | <b>7.72</b> | <b>6.28</b> | <b>5.3</b>  | <b>4.58</b> | <b>3.81</b> | <b>3.03</b> | -           |             |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18100       | -           | <b>6165</b> |
| Overhung Load (lbs)    | 4410        | 4610        | 4920        | 4960        | 4960        | 4960        | 4960        | 4890        | -           | <b>616H</b> |
| <b>Input HP</b>        | <b>13.0</b> | <b>11.2</b> | <b>9.30</b> | <b>7.57</b> | <b>6.39</b> | <b>5.52</b> | <b>4.59</b> | <b>3.74</b> | -           |             |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | -           | <b>6170</b> |
| Overhung Load (lbs)    | 4960        | 5270        | 5600        | 5970        | 6260        | 6610        | 6640        | 6640        | -           |             |
| <b>Input HP</b>        | <b>16.2</b> | <b>14.0</b> | <b>11.6</b> | <b>9.42</b> | <b>7.95</b> | <b>6.87</b> | <b>5.70</b> | <b>4.66</b> | -           |             |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | -           | <b>6175</b> |
| Overhung Load (lbs)    | 4890        | 5160        | 5530        | 5910        | 6190        | 6550        | 6640        | 6640        | -           |             |
| <b>Input HP</b>        | <b>20.8</b> | <b>18.0</b> | <b>14.9</b> | <b>12.1</b> | <b>10.2</b> | <b>8.83</b> | <b>7.34</b> | <b>6.01</b> | -           |             |
| Output Torque (in•lbs) | 35800       | 35800       | 35800       | 35900       | 35800       | 35800       | 35800       | 35900       | -           | <b>6180</b> |
| Overhung Load (lbs)    | 6640        | 6970        | 7450        | 8050        | 8360        | 8770        | 9350        | 9370        | -           |             |
| <b>Input HP</b>        | <b>25.8</b> | <b>22.1</b> | <b>18.4</b> | <b>15.0</b> | <b>12.6</b> | <b>10.9</b> | <b>8.19</b> | <b>7.4</b>  | -           |             |
| Output Torque (in•lbs) | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       | 39900       | 44300       | -           | <b>6185</b> |
| Overhung Load (lbs)    | 6550        | 6880        | 7390        | 7960        | 8290        | 8690        | 9330        | 9370        | -           |             |
| <b>Input HP</b>        | <b>32.9</b> | <b>28.3</b> | <b>23.5</b> | <b>19.1</b> | <b>16.1</b> | <b>14.0</b> | <b>11.6</b> | <b>9.44</b> | -           |             |
| Output Torque (in•lbs) | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | -           | <b>6190</b> |
| Overhung Load (lbs)    | 9260        | 9740        | 10300       | 11200       | 11700       | 12300       | 13100       | 13200       | -           |             |
| <b>Input HP</b>        | <b>40.9</b> | <b>35.3</b> | <b>29.3</b> | <b>23.9</b> | <b>20.1</b> | <b>17.3</b> | <b>14.5</b> | <b>11.8</b> | -           |             |
| Output Torque (in•lbs) | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | -           | <b>6195</b> |
| Overhung Load (lbs)    | 9150        | 9630        | 10200       | 11100       | 11600       | 12200       | 12900       | 13100       | -           |             |
| <b>Input HP</b>        | -           | <b>40.9</b> | -           | <b>27.8</b> | -           | <b>20.3</b> | -           | <b>13.0</b> | -           |             |
| Output Torque (in•lbs) | -           | 81700       | -           | 82300       | -           | 82300       | -           | 77500       | -           | <b>6205</b> |
| Overhung Load (lbs)    | -           | 12700       | -           | 18900       | -           | 18900       | -           | 18900       | -           |             |
| <b>Input HP</b>        | -           | <b>56.1</b> | -           | <b>37.9</b> | -           | <b>27.7</b> | -           | <b>16.6</b> | -           |             |
| Output Torque (in•lbs) | -           | 112000      | -           | 112000      | -           | 112000      | -           | 99800       | -           | <b>6215</b> |
| Overhung Load (lbs)    | -           | 17900       | -           | 20300       | -           | 22300       | -           | 23400       | -           |             |
| <b>Input HP</b>        | -           | <b>66.7</b> | -           | <b>47.9</b> | -           | <b>34.6</b> | -           | <b>22.3</b> | -           |             |
| Output Torque (in•lbs) | -           | 133000      | -           | 141000      | -           | 141000      | -           | 134000      | -           | <b>6225</b> |
| Overhung Load (lbs)    | -           | 18800       | -           | 21400       | -           | 23400       | -           | 26200       | -           |             |
| <b>Input HP</b>        | -           | <b>83.9</b> | -           | <b>58.3</b> | -           | <b>42.4</b> | -           | <b>25.4</b> | -           |             |
| Output Torque (in•lbs) | -           | 168000      | -           | 173000      | -           | 172000      | -           | 152000      | -           | <b>6235</b> |
| Overhung Load (lbs)    | -           | 23600       | -           | 26500       | -           | 28900       | -           | 32800       | -           |             |
| <b>Input HP</b>        | -           | <b>114</b>  | -           | <b>77.2</b> | -           | <b>56.2</b> | -           | <b>33.6</b> | -           |             |
| Output Torque (in•lbs) | -           | 228000      | -           | 228000      | -           | 228000      | -           | 200000      | -           | <b>6245</b> |
| Overhung Load (lbs)    | -           | 26000       | -           | 29500       | -           | 32400       | -           | 36600       | -           |             |
| <b>Input HP</b>        | -           | <b>144</b>  | -           | <b>95.4</b> | -           | <b>69.7</b> | -           | <b>45.9</b> | -           |             |
| Output Torque (in•lbs) | -           | 287000      | -           | 282000      | -           | 282000      | -           | 274000      | -           | <b>6255</b> |
| Overhung Load (lbs)    | -           | 32000       | -           | 36200       | -           | 39500       | -           | 44800       | -           |             |
| <b>Input HP</b>        | -           | <b>204</b>  | -           | <b>138</b>  | -           | <b>100</b>  | -           | <b>65.1</b> | -           |             |
| Output Torque (in•lbs) | -           | 407000      | -           | 407000      | -           | 407000      | -           | 390000      | -           | <b>6265</b> |
| Overhung Load (lbs)    | -           | 39000       | -           | 44100       | -           | 48300       | -           | 54500       | -           |             |
| <b>Input HP</b>        | -           | <b>213</b>  | -           | <b>203</b>  | -           | <b>149</b>  | -           | <b>71.7</b> | -           |             |
| Output Torque (in•lbs) | -           | 425000      | -           | 598000      | -           | 603000      | -           | 429000      | -           | <b>6275</b> |
| Overhung Load (lbs)    | -           | 45600       | -           | 55800       | -           | 55800       | -           | 50900       | -           |             |

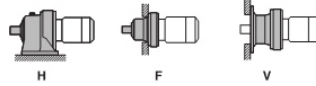
Speed Reducers

Selection Tables



# Frame Size Selection Tables 580 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



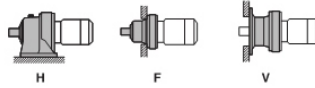
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio       | 193<br>3 <sup>[1]</sup> | 116<br>5 <sup>[1]</sup> | 96.7<br>6   | 72.5<br>8   | 52.7<br>11  | 44.6<br>13  | 38.7<br>15  | 34.1<br>17  | 27.6<br>21   | FRAME SIZE                 |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------------------------|
| <b>Input HP</b>        | -                       | -                       | <b>0.27</b> | <b>0.26</b> | <b>0.19</b> | <b>0.16</b> | <b>0.14</b> | <b>0.12</b> | <b>0.098</b> | <b>6060</b>                |
| Output Torque (in•lbs) | -                       | -                       | 167         | 213         | 213         | 213         | 213         | 213         | 213          |                            |
| Overhung Load (lbs)    | -                       | -                       | 229         | 227         | 265         | 265         | 265         | 265         | 265          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.36</b> | <b>0.29</b> | <b>0.23</b> | <b>0.20</b> | <b>0.17</b> | <b>0.15</b> | <b>0.12</b>  | <b>6065</b>                |
| Output Torque (in•lbs) | -                       | -                       | 221         | 240         | 266         | 266         | 266         | 266         | 266          |                            |
| Overhung Load (lbs)    | -                       | -                       | 215         | 219         | 256         | 265         | 265         | 265         | 265          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.42</b> | <b>0.39</b> | <b>0.35</b> | <b>0.30</b> | <b>0.26</b> | <b>0.23</b> | <b>0.18</b>  | <b>6070</b>                |
| Output Torque (in•lbs) | -                       | -                       | 263         | 319         | 398         | 398         | 398         | 398         | 398          |                            |
| Overhung Load (lbs)    | -                       | -                       | 397         | 397         | 397         | 397         | 397         | 397         | 397          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.42</b> | <b>0.39</b> | <b>0.39</b> | <b>0.37</b> | <b>0.34</b> | <b>0.30</b> | <b>0.25</b>  | <b>6075</b>                |
| Output Torque (in•lbs) | -                       | -                       | 263         | 319         | 444         | 491         | 531         | 531         | 531          |                            |
| Overhung Load (lbs)    | -                       | -                       | 397         | 397         | 397         | 397         | 397         | 397         | 397          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>0.80</b> | <b>0.80</b> | <b>0.62</b> | <b>0.53</b> | <b>0.46</b> | <b>0.40</b> | <b>0.32</b>  | <b>6080</b>                |
| Output Torque (in•lbs) | -                       | -                       | 492         | 655         | 707         | 707         | 707         | 707         | 683          |                            |
| Overhung Load (lbs)    | -                       | -                       | 571         | 575         | 575         | 575         | 575         | 575         | 575          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.04</b> | <b>1.04</b> | <b>0.78</b> | <b>0.66</b> | <b>0.57</b> | <b>0.51</b> | <b>0.32</b>  | <b>6085</b>                |
| Output Torque (in•lbs) | -                       | -                       | 646         | 861         | 885         | 885         | 885         | 885         | 683          |                            |
| Overhung Load (lbs)    | -                       | -                       | 564         | 575         | 575         | 575         | 575         | 575         | 575          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.54</b> | <b>1.54</b> | <b>1.17</b> | <b>0.99</b> | <b>0.86</b> | <b>0.76</b> | <b>0.61</b>  | <b>6090</b>                |
| Output Torque (in•lbs) | -                       | -                       | 955         | 1270        | 1330        | 1330        | 1330        | 1330        | 1330         |                            |
| Overhung Load (lbs)    | -                       | -                       | 750         | 750         | 750         | 750         | 750         | 750         | 750          |                            |
| <b>Input HP</b>        | -                       | -                       | <b>1.97</b> | <b>1.80</b> | <b>1.41</b> | <b>1.32</b> | <b>1.14</b> | <b>1.01</b> | <b>0.82</b>  | <b>6095</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1220        | 1480        | 1610        | 1770        | 1770        | 1770        | 1770         |                            |
| Overhung Load (lbs)    | -                       | -                       | 750         | 750         | 750         | 750         | 750         | 750         | 750          |                            |
| <b>Input HP</b>        | <b>2.44</b>             | <b>2.44</b>             | <b>2.44</b> | <b>2.50</b> | <b>1.95</b> | <b>1.65</b> | <b>1.44</b> | <b>1.26</b> | <b>1.02</b>  | <b>6100</b>                |
| Output Torque (in•lbs) | 752                     | 1256                    | 1510        | 2070        | 2210        | 2210        | 2210        | 2210        | 2210         |                            |
| Overhung Load (lbs)    | 963                     | 1141                    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210         |                            |
| <b>Input HP</b>        | <b>2.44</b>             | <b>2.44</b>             | <b>2.44</b> | <b>2.50</b> | <b>2.40</b> | <b>1.99</b> | <b>1.72</b> | <b>1.52</b> | <b>1.23</b>  | <b>6105</b><br><b>610H</b> |
| Output Torque (in•lbs) | 752                     | 1256                    | 1510        | 2070        | 2730        | 2660        | 2660        | 2660        | 2660         |                            |
| Overhung Load (lbs)    | 963                     | 1141                    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>2.77</b> | <b>3.87</b> | <b>2.81</b> | <b>2.38</b> | <b>2.05</b> | <b>1.81</b> | <b>1.48</b>  | <b>6110</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1710        | 3190        | 3190        | 3190        | 3190        | 3190        | 3190         |                            |
| Overhung Load (lbs)    | -                       | -                       | 1400        | 1520        | 1710        | 1710        | 1710        | 1710        | 1710         |                            |
| <b>Input HP</b>        | -                       | -                       | <b>2.77</b> | <b>4.36</b> | <b>3.28</b> | <b>2.78</b> | <b>2.40</b> | <b>2.12</b> | <b>1.72</b>  | <b>6115</b>                |
| Output Torque (in•lbs) | -                       | -                       | 1710        | 3590        | 3720        | 3720        | 3720        | 3720        | 3720         |                            |
| Overhung Load (lbs)    | -                       | -                       | 1400        | 1510        | 1710        | 1710        | 1710        | 1690        | 1680         |                            |
| <b>Input HP</b>        | <b>4.39</b>             | <b>4.39</b>             | <b>5.23</b> | <b>5.37</b> | <b>4.09</b> | <b>3.46</b> | <b>3.01</b> | <b>2.63</b> | <b>2.13</b>  | <b>6120</b>                |
| Output Torque (in•lbs) | 1363                    | 2265                    | 3240        | 4440        | 4640        | 4640        | 4640        | 4600        | 4620         |                            |
| Overhung Load (lbs)    | 1226                    | 1453                    | 1550        | 1710        | 1960        | 2040        | 2200        | 2200        | 2200         |                            |
| <b>Input HP</b>        | <b>4.39</b>             | <b>4.39</b>             | <b>5.23</b> | <b>5.37</b> | <b>4.66</b> | <b>4.16</b> | <b>3.61</b> | <b>3.18</b> | <b>2.58</b>  | <b>6125</b><br><b>612H</b> |
| Output Torque (in•lbs) | 1363                    | 2265                    | 3240        | 4440        | 5280        | 5570        | 5570        | 5570        | 5570         |                            |
| Overhung Load (lbs)    | 1226                    | 1453                    | 1550        | 1710        | 1950        | 2020        | 2180        | 2200        | 2200         |                            |
| <b>Input HP</b>        | <b>7.93</b>             | <b>7.93</b>             | <b>7.93</b> | <b>7.97</b> | <b>6.08</b> | <b>5.15</b> | <b>4.46</b> | <b>3.93</b> | <b>3.18</b>  | <b>6130</b>                |
| Output Torque (in•lbs) | 2451                    | 4088                    | 4910        | 6580        | 6900        | 6900        | 6900        | 6900        | 6900         |                            |
| Overhung Load (lbs)    | 1412                    | 1675                    | 1780        | 1980        | 2290        | 2400        | 2470        | 2650        | 2840         |                            |
| <b>Input HP</b>        | <b>8.68</b>             | <b>8.68</b>             | <b>8.68</b> | <b>8.20</b> | <b>7.33</b> | <b>6.20</b> | <b>5.38</b> | <b>4.74</b> | <b>3.84</b>  | <b>6135</b>                |
| Output Torque (in•lbs) | 2690                    | 4477                    | 5370        | 6760        | 8320        | 8320        | 8320        | 8320        | 8320         |                            |
| Overhung Load (lbs)    | 1403                    | 1664                    | 1770        | 1970        | 2270        | 2380        | 2450        | 2620        | 2820         |                            |
| <b>Input HP</b>        | <b>10.0</b>             | <b>10.0</b>             | <b>10.3</b> | <b>10.5</b> | <b>9.56</b> | <b>8.08</b> | <b>7.01</b> | <b>6.19</b> | <b>5.01</b>  | <b>6140</b>                |
| Output Torque (in•lbs) | 3097                    | 5158                    | 6350        | 8640        | 10900       | 10900       | 10900       | 10900       | 10900        |                            |
| Overhung Load (lbs)    | 2155                    | 2557                    | 2710        | 3020        | 3370        | 3480        | 3590        | 3590        | 3590         |                            |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 580 RPM Frame Size Selection Tables

Dimensions:      Pages  
 Foot Mount (H) 4.2–4.19  
 F-Flange (F) 4.36–4.46  
 V-Flange (V) 4.62–4.80



Single Reduction, Ratios 25-119  
 H, F, V Housing Styles

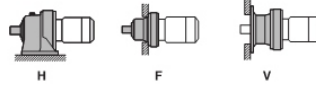
| Output RPM Ratio       | 23.2<br>25   | 20.0<br>29   | 16.6<br>35   | 13.5<br>43   | 11.4<br>51   | 9.83<br>59   | 8.17<br>71   | 6.67<br>87   | 4.87<br>119  | FRAME SIZE   |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Input HP</b>        | <b>0.082</b> | <b>0.071</b> | <b>0.059</b> | <b>0.048</b> | -            | -            | -            | -            | -            |              |
| Output Torque (in•lbs) | 213          | 213          | 213          | 213          | -            | -            | -            | -            | -            | 6060         |
| Overhung Load (lbs)    | 265          | 265          | 265          | 265          | -            | -            | -            | -            | -            |              |
| <b>Input HP</b>        | <b>0.10</b>  | <b>0.089</b> | <b>0.074</b> | <b>0.060</b> | -            | -            | -            | -            | -            | 6065         |
| Output Torque (in•lbs) | 266          | 266          | 266          | 266          | -            | -            | -            | -            | -            |              |
| Overhung Load (lbs)    | 265          | 265          | 265          | 265          | -            | -            | -            | -            | -            |              |
| <b>Input HP</b>        | <b>0.15</b>  | <b>0.13</b>  | <b>0.11</b>  | <b>0.090</b> | <b>0.075</b> | <b>0.066</b> | -            | -            | -            | 6070         |
| Output Torque (in•lbs) | 398          | 398          | 398          | 398          | 398          | 398          | -            | -            | -            |              |
| Overhung Load (lbs)    | 397          | 397          | 397          | 397          | 392          | 397          | -            | -            | -            |              |
| <b>Input HP</b>        | <b>0.21</b>  | <b>0.18</b>  | <b>0.15</b>  | <b>0.12</b>  | <b>0.095</b> | <b>0.083</b> | -            | -            | -            | 6075         |
| Output Torque (in•lbs) | 531          | 531          | 531          | 531          | 503          | 508          | -            | -            | -            |              |
| Overhung Load (lbs)    | 397          | 397          | 397          | 373          | 355          | 355          | -            | -            | -            |              |
| <b>Input HP</b>        | <b>0.28</b>  | <b>0.24</b>  | <b>0.20</b>  | <b>0.16</b>  | <b>0.13</b>  | <b>0.12</b>  | <b>0.097</b> | <b>0.079</b> | -            | 6080         |
| Output Torque (in•lbs) | 707          | 707          | 707          | 707          | 707          | 707          | 707          | 707          | -            |              |
| Overhung Load (lbs)    | 575          | 562          | 575          | 571          | 558          | 564          | 553          | 551          | -            |              |
| <b>Input HP</b>        | <b>0.34</b>  | <b>0.30</b>  | <b>0.24</b>  | <b>0.20</b>  | <b>0.17</b>  | <b>0.15</b>  | <b>0.12</b>  | <b>0.098</b> | -            | 6085         |
| Output Torque (in•lbs) | 885          | 885          | 860          | 885          | 885          | 885          | 877          | 885          | -            |              |
| Overhung Load (lbs)    | 531          | 516          | 558          | 527          | 514          | 518          | 509          | 507          | -            |              |
| <b>Input HP</b>        | <b>0.52</b>  | <b>0.44</b>  | <b>0.37</b>  | <b>0.30</b>  | <b>0.25</b>  | <b>0.21</b>  | <b>0.16</b>  | <b>0.15</b>  | <b>0.078</b> | 6090         |
| Output Torque (in•lbs) | 1330         | 1330         | 1330         | 1330         | 1320         | 1290         | 1170         | 1330         | 955          |              |
| Overhung Load (lbs)    | 736          | 739          | 741          | 743          | 736          | 741          | 743          | 743          | 743          |              |
| <b>Input HP</b>        | <b>0.67</b>  | <b>0.59</b>  | <b>0.49</b>  | <b>0.40</b>  | <b>0.26</b>  | <b>0.21</b>  | <b>0.16</b>  | <b>0.18</b>  | <b>0.078</b> | 6095         |
| Output Torque (in•lbs) | 1730         | 1770         | 1770         | 1770         | 1350         | 1290         | 1170         | 1570         | 955          |              |
| Overhung Load (lbs)    | 717          | 719          | 719          | 723          | 736          | 741          | 743          | 734          | 743          |              |
| <b>Input HP</b>        | <b>0.86</b>  | <b>0.74</b>  | <b>0.61</b>  | <b>0.50</b>  | <b>0.42</b>  | <b>0.36</b>  | <b>0.30</b>  | <b>0.25</b>  | <b>0.18</b>  | 6100         |
| Output Torque (in•lbs) | 2210         | 2210         | 2210         | 2210         | 2210         | 2210         | 2210         | 2210         | 2210         |              |
| Overhung Load (lbs)    | 1210         | 1210         | 1210         | 1210         | 1210         | 1210         | 1210         | 1210         | 1200         |              |
| <b>Input HP</b>        | <b>1.03</b>  | <b>0.89</b>  | <b>0.74</b>  | <b>0.60</b>  | <b>0.50</b>  | <b>0.43</b>  | <b>0.32</b>  | <b>0.30</b>  | <b>0.19</b>  | 6105<br>610H |
| Output Torque (in•lbs) | 2660         | 2660         | 2660         | 2660         | 2630         | 2620         | 2330         | 2660         | 2280         |              |
| Overhung Load (lbs)    | 1210         | 1210         | 1210         | 1210         | 1190         | 1140         | 1210         | 1070         | 1200         |              |
| <b>Input HP</b>        | <b>1.24</b>  | <b>1.07</b>  | <b>0.88</b>  | <b>0.72</b>  | <b>0.61</b>  | <b>0.52</b>  | <b>0.44</b>  | <b>0.36</b>  | -            | 6110         |
| Output Torque (in•lbs) | 3190         | 3190         | 3190         | 3190         | 3190         | 3190         | 3190         | 3190         | -            |              |
| Overhung Load (lbs)    | 1650         | 1620         | 1640         | 1710         | 1710         | 1710         | 1700         | 1710         | -            |              |
| <b>Input HP</b>        | <b>1.44</b>  | <b>1.24</b>  | <b>1.03</b>  | <b>0.84</b>  | <b>0.71</b>  | <b>0.61</b>  | <b>0.51</b>  | <b>0.42</b>  | -            | 6115         |
| Output Torque (in•lbs) | 3720         | 3720         | 3720         | 3720         | 3720         | 3720         | 3720         | 3720         | -            |              |
| Overhung Load (lbs)    | 1610         | 1580         | 1590         | 1660         | 1660         | 1670         | 1660         | 1660         | -            |              |
| <b>Input HP</b>        | <b>1.80</b>  | <b>1.54</b>  | <b>1.29</b>  | <b>1.05</b>  | <b>0.88</b>  | <b>0.76</b>  | <b>0.64</b>  | <b>0.52</b>  | -            | 6120         |
| Output Torque (in•lbs) | 4640         | 4600         | 4640         | 4640         | 4640         | 4640         | 4640         | 4640         | -            |              |
| Overhung Load (lbs)    | 2200         | 2200         | 2200         | 2200         | 2200         | 2200         | 2200         | 2200         | -            |              |
| <b>Input HP</b>        | <b>2.16</b>  | <b>1.87</b>  | <b>1.54</b>  | <b>1.26</b>  | <b>1.06</b>  | <b>0.92</b>  | <b>0.72</b>  | <b>0.62</b>  | -            | 6125<br>612H |
| Output Torque (in•lbs) | 5570         | 5570         | 5570         | 5570         | 5570         | 5570         | 5230         | 5570         | -            |              |
| Overhung Load (lbs)    | 2200         | 2200         | 2200         | 2200         | 2200         | 2200         | 2200         | 2150         | -            |              |
| <b>Input HP</b>        | <b>2.67</b>  | <b>2.31</b>  | <b>1.91</b>  | <b>1.56</b>  | <b>1.56</b>  | <b>1.33</b>  | <b>1.09</b>  | <b>0.84</b>  | -            | 6130         |
| Output Torque (in•lbs) | 6900         | 6900         | 6900         | 6900         | 8210         | 8070         | 7980         | 7500         | -            |              |
| Overhung Load (lbs)    | 3000         | 3150         | 3310         | 3310         | 3310         | 3310         | 3310         | 3310         | -            |              |
| <b>Input HP</b>        | <b>3.09</b>  | <b>2.78</b>  | <b>2.31</b>  | <b>1.88</b>  | <b>1.62</b>  | <b>1.53</b>  | <b>1.26</b>  | <b>0.97</b>  | -            | 6135         |
| Output Torque (in•lbs) | 7960         | 8320         | 8320         | 8320         | 8560         | 9290         | 9200         | 8660         | -            |              |
| Overhung Load (lbs)    | 2980         | 3130         | 3310         | 3310         | 3310         | 3310         | 3310         | 3310         | -            |              |
| <b>Input HP</b>        | <b>4.20</b>  | <b>3.62</b>  | <b>3.01</b>  | <b>2.44</b>  | <b>2.07</b>  | <b>1.79</b>  | <b>1.48</b>  | <b>1.21</b>  | -            | 6140         |
| Output Torque (in•lbs) | 10900        | 10900        | 10900        | 10900        | 10900        | 10900        | 10900        | 10900        | -            |              |
| Overhung Load (lbs)    | 3590         | 3590         | 3590         | 3590         | 3590         | 3590         | 3590         | 3590         | -            |              |

Speed  
Reducers

Selection  
Tables

# Frame Size Selection Tables 580 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio       | 193<br>3 <sup>[1]</sup> | 116<br>5 <sup>[1]</sup> | 96.7<br>6   | 72.5<br>8   | 52.7<br>11  | 44.6<br>13  | 38.7<br>15  | 34.1<br>17  | 27.6<br>21  | FRAME SIZE           |
|------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| <b>Input HP</b>        | <b>10.0</b>             | <b>10.0</b>             | <b>10.3</b> | <b>10.5</b> | <b>10.1</b> | <b>9.05</b> | <b>7.77</b> | <b>6.91</b> | <b>5.46</b> | <b>6145<br/>614H</b> |
| Output Torque (in•lbs) | 3097                    | 5158                    | 6350        | 8640        | 11400       | 12200       | 12100       | 12200       | 11900       |                      |
| Overhung Load (lbs)    | 2155                    | 2557                    | 2710        | 3020        | 3370        | 3460        | 3590        | 3590        | 3590        |                      |
| <b>Input HP</b>        | <b>16.5</b>             | <b>16.5</b>             | <b>18.9</b> | <b>18.8</b> | <b>13.7</b> | <b>11.6</b> | <b>10.0</b> | <b>8.86</b> | <b>7.17</b> | <b>6160</b>          |
| Output Torque (in•lbs) | 5114                    | 8521                    | 11700       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       |                      |
| Overhung Load (lbs)    | 2405                    | 2852                    | 3040        | 3370        | 3880        | 4100        | 4370        | 4520        | 4870        |                      |
| <b>Input HP</b>        | <b>16.5</b>             | <b>16.5</b>             | <b>18.9</b> | <b>20.0</b> | <b>16.4</b> | <b>13.8</b> | <b>12.0</b> | <b>10.6</b> | <b>8.58</b> | <b>6165<br/>616H</b> |
| Output Torque (in•lbs) | 5114                    | 8521                    | 11700       | 16600       | 18600       | 18600       | 18600       | 18600       | 18600       |                      |
| Overhung Load (lbs)    | 2405                    | 2852                    | 3040        | 3350        | 3810        | 4030        | 4320        | 4480        | 4830        |                      |
| <b>Input HP</b>        | <b>26.6</b>             | <b>26.6</b>             | <b>26.6</b> | <b>27.1</b> | <b>19.7</b> | <b>16.6</b> | <b>14.5</b> | <b>12.8</b> | <b>10.3</b> | <b>6170</b>          |
| Output Torque (in•lbs) | 8229                    | 13706                   | 16500       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       |                      |
| Overhung Load (lbs)    | 2690                    | 3191                    | 3400        | 3700        | 4340        | 4560        | 4810        | 5030        | 5490        |                      |
| <b>Input HP</b>        | <b>26.6</b>             | <b>26.6</b>             | <b>26.6</b> | <b>27.9</b> | <b>24.6</b> | <b>20.8</b> | <b>18.0</b> | <b>15.8</b> | <b>12.9</b> | <b>6175</b>          |
| Output Torque (in•lbs) | 8229                    | 13706                   | 16500       | 23000       | 27900       | 27900       | 27900       | 27900       | 27900       |                      |
| Overhung Load (lbs)    | 2690                    | 3191                    | 3400        | 3700        | 4250        | 4480        | 4720        | 4940        | 5420        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>31.7</b> | <b>26.8</b> | <b>23.2</b> | <b>20.5</b> | <b>16.5</b> | <b>6180</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 35900       | 35900       | 35900       | 35900       | 35800       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 5750        | 6000        | 6350        | 6750        | 7320        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>37.4</b> | <b>32.3</b> | <b>26.7</b> | <b>25.2</b> | <b>20.4</b> | <b>6185</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 42500       | 43300       | 41300       | 44300       | 44300       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 5670        | 5930        | 6280        | 6660        | 7230        |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>49.8</b> | <b>42.1</b> | <b>36.5</b> | <b>32.2</b> | <b>26</b>   | <b>6190</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 56400       | 56400       | 56400       | 56400       | 56400       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 7980        | 8330        | 8600        | 9330        | 10100       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>59.1</b> | <b>48.5</b> | <b>44.6</b> | <b>40.1</b> | <b>32.5</b> | <b>6195</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 67000       | 65000       | 69000       | 70400       | 70400       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 7890        | 8250        | 8660        | 9220        | 10000       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>62.8</b> | -           | <b>53.0</b> | -           | <b>37.9</b> | <b>6205</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 71300       | -           | 82000       | -           | 82000       |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 15100       | -           | 16300       | -           | 18300       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>85.9</b> | -           | <b>69.7</b> | -           | <b>51.1</b> | <b>6215</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 97200       | -           | 108000      | -           | 110000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 15100       | -           | 16300       | -           | 18500       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>100</b>  | -           | <b>82.8</b> | -           | <b>60.5</b> | <b>6225</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 114000      | -           | 128000      | -           | 131000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 16000       | -           | 17300       | -           | 19500       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>134</b>  | -           | <b>112</b>  | -           | <b>77.2</b> | <b>6235</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 152000      | -           | 174000      | -           | 168000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 20000       | -           | 21400       | -           | 24300       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>157</b>  | -           | <b>150</b>  | -           | <b>105</b>  | <b>6245</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 179000      | -           | 232000      | -           | 228000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 22300       | -           | 23800       | -           | 26700       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>203</b>  | -           | <b>179</b>  | -           | <b>127</b>  | <b>6255</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 229000      | -           | 276000      | -           | 274000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 27100       | -           | 29300       | -           | 32800       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | <b>235</b>  | -           | <b>235</b>  | -           | <b>188</b>  | <b>6265</b>          |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | 266000      | -           | 363000      | -           | 407000      |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | 33300       | -           | 35500       | -           | 39700       |                      |
| <b>Input HP</b>        | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |                      |
| Output Torque (in•lbs) | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |                      |
| Overhung Load (lbs)    | -                       | -                       | -           | -           | -           | -           | -           | -           | -           |                      |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.



# 580 RPM Frame Size Selection Tables

Dimensions:

Pages  
Foot Mount (H) 4.2-4.19  
F-Flange (F) 4.36-4.46  
V-Flange (V) 4.62-4.80



Single Reduction, Ratios 25-119  
H, F, V Housing Styles

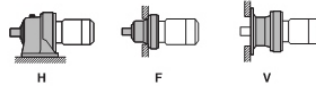
| Output RPM Ratio       | 23.2<br>25  | 20.0<br>29  | 16.6<br>35  | 13.5<br>43  | 11.4<br>51  | 9.83<br>59  | 8.17<br>71  | 6.67<br>87  | 4.87<br>119 | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Input HP</b>        | <b>4.70</b> | <b>4.05</b> | <b>3.36</b> | <b>2.74</b> | <b>2.31</b> | <b>1.99</b> | <b>1.60</b> | <b>1.23</b> | -           |            |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 12200       | 12200       | 12200       | 11700       | 11000       | -           | 6145       |
| Overhung Load (lbs)    | 3590        | 3550        | 3590        | 3530        | 3530        | 3590        | 3590        | 3590        | -           | 614H       |
| <b>Input HP</b>        | <b>6.03</b> | <b>5.19</b> | <b>4.31</b> | <b>3.46</b> | <b>2.95</b> | <b>2.55</b> | <b>2.12</b> | <b>1.73</b> | -           |            |
| Output Torque (in•lbs) | 15500       | 15500       | 15500       | 15400       | 15500       | 15500       | 15500       | 15500       | -           | 6160       |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | -           |            |
| <b>Input HP</b>        | <b>7.21</b> | <b>6.21</b> | <b>5.15</b> | <b>4.19</b> | <b>3.53</b> | <b>3.06</b> | <b>2.54</b> | <b>2.03</b> | -           |            |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18100       | -           | 6165       |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4890        | -           | 616H       |
| <b>Input HP</b>        | <b>8.68</b> | <b>7.49</b> | <b>6.20</b> | <b>5.05</b> | <b>4.26</b> | <b>3.68</b> | <b>3.06</b> | <b>2.50</b> | -           |            |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | -           | 6170       |
| Overhung Load (lbs)    | 5710        | 6040        | 6460        | 6640        | 6640        | 6640        | 6640        | 6640        | -           |            |
| <b>Input HP</b>        | <b>10.8</b> | <b>9.32</b> | <b>7.72</b> | <b>6.28</b> | <b>5.30</b> | <b>4.58</b> | <b>3.81</b> | <b>3.10</b> | -           |            |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | -           | 6175       |
| Overhung Load (lbs)    | 5640        | 5970        | 6390        | 6640        | 6640        | 6640        | 6640        | 6640        | -           |            |
| <b>Input HP</b>        | <b>14.0</b> | <b>12.0</b> | <b>9.93</b> | <b>8.09</b> | <b>6.82</b> | <b>5.89</b> | <b>4.90</b> | <b>4.00</b> | -           |            |
| Output Torque (in•lbs) | 35800       | 35800       | 35800       | 35900       | 35800       | 35800       | 35800       | 35900       | -           | 6180       |
| Overhung Load (lbs)    | 7650        | 8020        | 8580        | 9260        | 9370        | 9370        | 9370        | 9370        | -           |            |
| <b>Input HP</b>        | <b>17.2</b> | <b>14.8</b> | <b>12.3</b> | <b>9.97</b> | <b>8.42</b> | <b>7.28</b> | <b>5.45</b> | <b>4.93</b> | -           |            |
| Output Torque (in•lbs) | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       | 39900       | 44300       | -           | 6185       |
| Overhung Load (lbs)    | 7560        | 7940        | 8510        | 9170        | 9370        | 9350        | 9370        | 9370        | -           |            |
| <b>Input HP</b>        | <b>21.9</b> | <b>18.9</b> | <b>15.7</b> | <b>12.7</b> | <b>10.7</b> | <b>9.28</b> | <b>7.70</b> | <b>6.30</b> | -           |            |
| Output Torque (in•lbs) | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | -           | 6190       |
| Overhung Load (lbs)    | 10600       | 11200       | 11900       | 12900       | 13200       | 13200       | 13100       | 13200       | -           |            |
| <b>Input HP</b>        | <b>27.4</b> | <b>23.5</b> | <b>19.5</b> | <b>15.8</b> | <b>13.4</b> | <b>11.8</b> | <b>9.62</b> | <b>7.85</b> | -           |            |
| Output Torque (in•lbs) | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | -           | 6195       |
| Overhung Load (lbs)    | 10500       | 11100       | 11800       | 12700       | 13100       | 13100       | 13000       | 13100       | -           |            |
| <b>Input HP</b>        | -           | <b>27.2</b> | -           | <b>18.5</b> | -           | <b>13.6</b> | -           | <b>8.63</b> | -           |            |
| Output Torque (in•lbs) | -           | 81700       | -           | 82300       | -           | 82300       | -           | 77500       | -           | 6205       |
| Overhung Load (lbs)    | -           | 18900       | -           | 18900       | -           | 18900       | -           | 18900       | -           |            |
| <b>Input HP</b>        | -           | <b>37.4</b> | -           | <b>25.2</b> | -           | <b>18.4</b> | -           | <b>11.1</b> | -           |            |
| Output Torque (in•lbs) | -           | 112000      | -           | 112000      | -           | 112000      | -           | 99800       | -           | 6215       |
| Overhung Load (lbs)    | -           | 20300       | -           | 22900       | -           | 23400       | -           | 23400       | -           |            |
| <b>Input HP</b>        | -           | <b>44.6</b> | -           | <b>31.9</b> | -           | <b>23.1</b> | -           | <b>14.9</b> | -           |            |
| Output Torque (in•lbs) | -           | 133000      | -           | 141000      | -           | 141000      | -           | 134000      | -           | 6225       |
| Overhung Load (lbs)    | -           | 21400       | -           | 24300       | -           | 26500       | -           | 30000       | -           |            |
| <b>Input HP</b>        | -           | <b>56.0</b> | -           | <b>40.9</b> | -           | <b>29.8</b> | -           | <b>16.9</b> | -           |            |
| Output Torque (in•lbs) | -           | 168000      | -           | 181000      | -           | 181000      | -           | 152000      | -           | 6235       |
| Overhung Load (lbs)    | -           | 26700       | -           | 30000       | -           | 32800       | -           | 37300       | -           |            |
| <b>Input HP</b>        | -           | <b>76.4</b> | -           | <b>51.5</b> | -           | <b>37.6</b> | -           | <b>22.3</b> | -           |            |
| Output Torque (in•lbs) | -           | 228000      | -           | 228000      | -           | 228000      | -           | 200000      | -           | 6245       |
| Overhung Load (lbs)    | -           | 29500       | -           | 33500       | -           | 36600       | -           | 41700       | -           |            |
| <b>Input HP</b>        | -           | <b>96.1</b> | -           | <b>68.9</b> | -           | <b>50.2</b> | -           | <b>30.6</b> | -           |            |
| Output Torque (in•lbs) | -           | 287000      | -           | 306000      | -           | 306000      | -           | 274000      | -           | 6255       |
| Overhung Load (lbs)    | -           | 36200       | -           | 41000       | -           | 45000       | -           | 50700       | -           |            |
| <b>Input HP</b>        | -           | <b>136</b>  | -           | <b>91.8</b> | -           | <b>66.8</b> | -           | <b>43.4</b> | -           |            |
| Output Torque (in•lbs) | -           | 407000      | -           | 407000      | -           | 407000      | -           | 390000      | -           | 6265       |
| Overhung Load (lbs)    | -           | 44300       | -           | 49800       | -           | 54700       | -           | 61500       | -           |            |
| <b>Input HP</b>        | -           | <b>201</b>  | -           | <b>136</b>  | -           | <b>99.2</b> | -           | <b>67.2</b> | -           |            |
| Output Torque (in•lbs) | -           | 603000      | -           | 603000      | -           | 603000      | -           | 603000      | -           | 6275       |
| Overhung Load (lbs)    | -           | 51100       | -           | 55800       | -           | 55800       | -           | 55100       | -           |            |

Speed Reducers

Selection Tables

# Frame Size Selection Tables 50 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



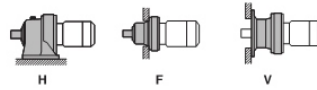
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |
|             |                | 4.62-4.80 |

| Output RPM Ratio       | 16.7<br>3 <sup>[1]</sup> | 10.0<br>5 <sup>[1]</sup> | 8.33<br>6 | 6.25<br>8 | 4.55<br>11 | 3.85<br>13 | 3.33<br>15 | 2.94<br>17 | 2.38<br>21 | FRAME SIZE  |
|------------------------|--------------------------|--------------------------|-----------|-----------|------------|------------|------------|------------|------------|-------------|
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 213       | 213       | 213        | 213        | 213        | 213        | 213        | <b>6060</b> |
| Overhung Load (lbs)    | -                        | -                        | 218       | 227       | 265        | 265        | 265        | 265        | 265        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 221       | 240       | 266        | 266        | 266        | 266        | 266        | <b>6065</b> |
| Overhung Load (lbs)    | -                        | -                        | 215       | 219       | 256        | 265        | 265        | 265        | 265        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 263       | 386       | 398        | 398        | 398        | 398        | 398        | <b>6070</b> |
| Overhung Load (lbs)    | -                        | -                        | 397       | 397       | 397        | 397        | 397        | 397        | 397        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 263       | 386       | 450        | 531        | 531        | 531        | 531        | <b>6075</b> |
| Overhung Load (lbs)    | -                        | -                        | 397       | 397       | 397        | 397        | 397        | 397        | 397        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 694       | 707       | 707        | 707        | 707        | 707        | 683        | <b>6080</b> |
| Overhung Load (lbs)    | -                        | -                        | 575       | 575       | 575        | 575        | 575        | 575        | 575        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 694       | 877       | 885        | 885        | 885        | 885        | 683        | <b>6085</b> |
| Overhung Load (lbs)    | -                        | -                        | 575       | 575       | 575        | 575        | 575        | 575        | 575        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 1260      | 1330      | 1330       | 1330       | 1330       | 1330       | 1330       | <b>6090</b> |
| Overhung Load (lbs)    | -                        | -                        | 750       | 750       | 750        | 750        | 750        | 750        | 750        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 1500      | 1480      | 1770       | 1770       | 1770       | 1770       | 1770       | <b>6095</b> |
| Overhung Load (lbs)    | -                        | -                        | 750       | 750       | 750        | 750        | 750        | 750        | 750        |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 761                      | 1265                     | 1510      | 2210      | 2210       | 2210       | 2210       | 2210       | 2210       | <b>6100</b> |
| Overhung Load (lbs)    | 963                      | 1141                     | 1210      | 1210      | 1210       | 1210       | 1210       | 1210       | 1210       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 761                      | 1265                     | 1510      | 2440      | 2730       | 2660       | 2660       | 2660       | 2660       | <b>6105</b> |
| Overhung Load (lbs)    | 963                      | 1141                     | 1210      | 1210      | 1210       | 1210       | 1210       | 1210       | 1210       | <b>610H</b> |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 1710      | 3190      | 3190       | 3190       | 3190       | 3190       | 3190       | <b>6110</b> |
| Overhung Load (lbs)    | -                        | -                        | 1710      | 1710      | 1710       | 1710       | 1710       | 1710       | 1710       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | -                        | -                        | 1710      | 3590      | 3720       | 3720       | 3720       | 3720       | 3720       | <b>6115</b> |
| Overhung Load (lbs)    | -                        | -                        | 1710      | 1710      | 1710       | 1710       | 1710       | 1690       | 1680       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 1619                     | 2699                     | 3240      | 4640      | 4640       | 4640       | 4640       | 4600       | 4620       | <b>6120</b> |
| Overhung Load (lbs)    | 1749                     | 2072                     | 2200      | 2200      | 2200       | 2200       | 2200       | 2200       | 2200       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 1619                     | 2699                     | 3240      | 5080      | 5500       | 5570       | 5570       | 5570       | 5570       | <b>6125</b> |
| Overhung Load (lbs)    | 1749                     | 2072                     | 2200      | 2200      | 2200       | 2200       | 2200       | 2200       | 2200       | <b>612H</b> |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 2460                     | 4097                     | 4910      | 6580      | 6900       | 6900       | 6900       | 6900       | 6900       | <b>6130</b> |
| Overhung Load (lbs)    | 2620                     | 3105                     | 3310      | 3310      | 3310       | 3310       | 3310       | 3310       | 3310       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 2690                     | 4477                     | 5370      | 6760      | 8320       | 8320       | 8320       | 8320       | 8320       | <b>6135</b> |
| Overhung Load (lbs)    | 2620                     | 3105                     | 3310      | 3310      | 3310       | 3310       | 3310       | 3310       | 3310       |             |
| <b>Input HP</b>        | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |             |
| Output Torque (in•lbs) | 3176                     | 5291                     | 6350      | 10200     | 10900      | 10900      | 10900      | 10900      | 10900      | <b>6140</b> |
| Overhung Load (lbs)    | 2852                     | 3381                     | 3590      | 3590      | 3590       | 3590       | 3590       | 3590       | 3590       |             |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 50 RPM Frame Size Selection Tables

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.2–4.19  |
| F-Flange (F)   | 4.36–4.46 |
| V-Flange (V)   | 4.62–4.80 |



## Single Reduction, Ratios 25-119 H, F, V Housing Styles

| Output RPM Ratio       | 2.00<br>25 | 1.72<br>29 | 1.43<br>35 | 1.16<br>43 | 0.980<br>51 | 0.847<br>59 | 0.704<br>71 | 0.575<br>87 | 0.420<br>119 | FRAME SIZE   |
|------------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 213        | 213        | 213        | 213        | -           | -           | -           | -           | -            | 6060         |
| Overhung Load (lbs)    | 265        | 265        | 265        | 265        | -           | -           | -           | -           | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 266        | 266        | 266        | 266        | -           | -           | -           | -           | -            | 6065         |
| Overhung Load (lbs)    | 265        | 265        | 265        | 265        | -           | -           | -           | -           | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 398        | 398        | 398        | 398        | 398         | 398         | -           | -           | -            | 6070         |
| Overhung Load (lbs)    | 397        | 397        | 397        | 397        | 392         | 397         | -           | -           | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 531        | 531        | 531        | 531        | 503         | 508         | -           | -           | -            | 6075         |
| Overhung Load (lbs)    | 397        | 397        | 397        | 373        | 355         | 355         | -           | -           | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 707        | 707        | 707        | 707        | 707         | 707         | 707         | 707         | -            | 6080         |
| Overhung Load (lbs)    | 575        | 562        | 575        | 571        | 558         | 564         | 553         | 551         | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 885        | 885        | 885        | 885        | 885         | 885         | 885         | 885         | -            | 6085         |
| Overhung Load (lbs)    | 531        | 516        | 545        | 527        | 514         | 518         | 507         | 507         | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 1330       | 1330       | 1330       | 1330       | 1320        | 1290        | 1170        | 1330        | 955          | 6090         |
| Overhung Load (lbs)    | 736        | 739        | 741        | 743        | 736         | 741         | 743         | 743         | 743          |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 1770       | 1770       | 1770       | 1770       | 1350        | 1290        | 1170        | 1730        | 955          | 6095         |
| Overhung Load (lbs)    | 714        | 719        | 719        | 723        | 736         | 741         | 743         | 725         | 743          |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 2210       | 2210       | 2210       | 2210       | 2210        | 2210        | 2210        | 2210        | 2210         | 6100         |
| Overhung Load (lbs)    | 1210       | 1210       | 1210       | 1210       | 1210        | 1210        | 1210        | 1210        | 1200         |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 2660       | 2660       | 2660       | 2660       | 2630        | 2620        | 2330        | 2660        | 2280         | 6105<br>610H |
| Overhung Load (lbs)    | 1210       | 1210       | 1210       | 1210       | 1190        | 1140        | 1210        | 1070        | 1200         |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 3190       | 3190       | 3190       | 3190       | 3190        | 3190        | 3190        | 3190        | -            | 6110         |
| Overhung Load (lbs)    | 1650       | 1620       | 1640       | 1710       | 1710        | 1710        | 1700        | 1710        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 3720       | 3720       | 3720       | 3720       | 3720        | 3720        | 3720        | 3720        | -            | 6115         |
| Overhung Load (lbs)    | 1610       | 1580       | 1590       | 1660       | 1660        | 1670        | 1660        | 1660        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 4640       | 4600       | 4640       | 4640       | 4640        | 4640        | 4640        | 4640        | -            | 6120         |
| Overhung Load (lbs)    | 2200       | 2200       | 2200       | 2200       | 2200        | 2200        | 2200        | 2200        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 5570       | 5570       | 5570       | 5570       | 5570        | 5570        | 5230        | 5570        | -            | 6125<br>612H |
| Overhung Load (lbs)    | 2200       | 2200       | 2200       | 2200       | 2200        | 2200        | 2200        | 2150        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 6900       | 6900       | 6900       | 6900       | 8210        | 8070        | 7980        | 7500        | -            | 6130         |
| Overhung Load (lbs)    | 3310       | 3310       | 3310       | 3310       | 3310        | 3310        | 3310        | 3310        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 7960       | 8320       | 8320       | 8320       | 8560        | 9290        | 9200        | 8660        | -            | 6135         |
| Overhung Load (lbs)    | 3310       | 3310       | 3310       | 3310       | 3310        | 3310        | 3310        | 3310        | -            |              |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |              |
| Output Torque (in•lbs) | 10900      | 10900      | 10900      | 10900      | 10900       | 10900       | 10900       | 10900       | -            | 6140         |
| Overhung Load (lbs)    | 3590       | 3590       | 3590       | 3590       | 3590        | 3590        | 3590        | 3590        | -            |              |

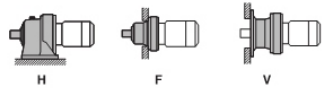
Speed Reducers

Selection Tables



# Frame Size Selection Tables 50 RPM

## Single Reduction, Ratios 3-21 H, F, V Housing Styles



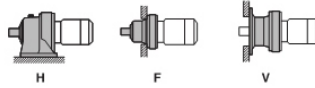
|             |                |           |
|-------------|----------------|-----------|
| Dimensions: | Foot Mount (H) | Pages     |
|             | F-Flange (F)   | 4.2-4.19  |
|             | V-Flange (V)   | 4.36-4.46 |

| Output RPM<br>Ratio    | 16.7<br>3 <sup>[1]</sup> | 10.0<br>5 <sup>[1]</sup> | 8.33<br>6 | 6.25<br>8 | 4.55<br>11 | 3.85<br>13 | 3.33<br>15 | 2.94<br>17 | 2.38<br>21 | FRAME SIZE   |
|------------------------|--------------------------|--------------------------|-----------|-----------|------------|------------|------------|------------|------------|--------------|
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6145<br>614H |
| Output Torque (in•lbs) | 3176                     | 5291                     | 6350      | 10200     | 11400      | 12200      | 12100      | 12200      | 11900      |              |
| Overhung Load (lbs)    | 2852                     | 3381                     | 3590      | 3590      | 3590       | 3570       | 3590       | 3590       | 3590       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6160         |
| Output Torque (in•lbs) | 5840                     | 6955                     | 11700     | 15500     | 15500      | 15500      | 15500      | 15500      | 15500      |              |
| Overhung Load (lbs)    | 3938                     | 4670                     | 4960      | 4960      | 4960       | 4960       | 4960       | 4960       | 4960       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6165<br>616H |
| Output Torque (in•lbs) | 5840                     | 6955                     | 11700     | 16600     | 18600      | 18600      | 18600      | 18600      | 18600      |              |
| Overhung Load (lbs)    | 3938                     | 4670                     | 4960      | 4960      | 4960       | 4960       | 4960       | 4960       | 4960       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6170         |
| Output Torque (in•lbs) | 8229                     | 9910                     | 16500     | 22400     | 22400      | 22400      | 22400      | 22400      | 22400      |              |
| Overhung Load (lbs)    | 5256                     | 6233                     | 6640      | 6640      | 6640       | 6640       | 6640       | 6640       | 6640       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6175         |
| Output Torque (in•lbs) | 8229                     | 9910                     | 16500     | 23000     | 27900      | 27900      | 27900      | 27900      | 27900      |              |
| Overhung Load (lbs)    | 5256                     | 6233                     | 6640      | 6640      | 6640       | 6640       | 6640       | 6640       | 6640       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6180         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 35900      | 35900      | 35900      | 35900      | 35800      |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 9370       | 9370       | 9370       | 9370       | 9370       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6185         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 42500      | 43300      | 43600      | 44300      | 44300      |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 9370       | 9370       | 9370       | 9370       | 9370       |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6190         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 56400      | 56400      | 56400      | 56400      | 56400      |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 13200      | 13200      | 13200      | 13200      | 13200      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6195         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 67100      | 67500      | 70000      | 70400      | 70400      |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 13200      | 13100      | 13100      | 13200      | 13200      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6205         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 76300      | -          | 82000      | -          | 82000      |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 18900      | -          | 18900      | -          | 18900      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6215         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 101000     | -          | 108000     | -          | 110000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 23400      | -          | 23400      | -          | 23400      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6225         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 120000     | -          | 128000     | -          | 131000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 32600      | -          | 32600      | -          | 32600      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6235         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 166000     | -          | 174000     | -          | 168000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 40100      | -          | 40100      | -          | 40100      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6245         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 181000     | -          | 232000     | -          | 228000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 46700      | -          | 46700      | -          | 46700      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6255         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 243000     | -          | 276000     | -          | 274000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 57800      | -          | 58000      | -          | 58000      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6265         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | 277000     | -          | 386000     | -          | 407000     |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | 61900      | -          | 61900      | -          | 61900      |              |
| Input HP               | -                        | -                        | -         | -         | -          | -          | -          | -          | -          | 6275         |
| Output Torque (in•lbs) | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |              |
| Overhung Load (lbs)    | -                        | -                        | -         | -         | -          | -          | -          | -          | -          |              |

Note: [1] Ratings listed are for the horizontal mounting position; please contact factory for vertical mounting position ratings.

# 50 RPM Frame Size Selection Tables

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.2–4.19  |
| F-Flange (F)   | 4.36–4.46 |
| V-Flange (V)   | 4.62–4.80 |



## Single Reduction, Ratios 25-119 H, F, V Housing Styles

| Output RPM Ratio       | 2.00<br>25 | 1.72<br>29 | 1.43<br>35 | 1.16<br>43 | 0.980<br>51 | 0.847<br>59 | 0.704<br>71 | 0.575<br>87 | 0.420<br>119 | FRAME SIZE  |
|------------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|-------------|
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 12200      | 12200      | 12200      | 12200      | 12200       | 12200       | 11700       | 11000       | -            | <b>6145</b> |
| Overhung Load (lbs)    | 3590       | 3550       | 3590       | 3530       | 3530        | 3590        | 3590        | 3590        | -            | <b>614H</b> |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 15500      | 15500      | 15500      | 15400      | 15500       | 15500       | 15500       | 15500       | -            | <b>6160</b> |
| Overhung Load (lbs)    | 4960       | 4960       | 4960       | 4960       | 4960        | 4960        | 4960        | 4960        | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 18600      | 18600      | 18600      | 18600      | 18600       | 18600       | 18600       | 18100       | -            | <b>6165</b> |
| Overhung Load (lbs)    | 4960       | 4960       | 4960       | 4960       | 4960        | 4960        | 4960        | 4890        | -            | <b>616H</b> |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 22400      | 22400      | 22400      | 22400      | 22400       | 22400       | 22400       | 22400       | -            | <b>6170</b> |
| Overhung Load (lbs)    | 6640       | 6640       | 6640       | 6640       | 6640        | 6640        | 6640        | 6640        | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 27900      | 27900      | 27900      | 27900      | 27900       | 27900       | 27900       | 27900       | -            | <b>6175</b> |
| Overhung Load (lbs)    | 6640       | 6640       | 6640       | 6640       | 6640        | 6640        | 6640        | 6640        | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 35800      | 35800      | 35800      | 35900      | 35800       | 35800       | 35800       | 35900       | -            | <b>6180</b> |
| Overhung Load (lbs)    | 9370       | 9370       | 9370       | 9370       | 9370        | 9370        | 9370        | 9370        | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 44300      | 44300      | 44300      | 44300      | 44300       | 44300       | 39900       | 44300       | -            | <b>6185</b> |
| Overhung Load (lbs)    | 9370       | 9370       | 9370       | 9370       | 9370        | 9350        | 9370        | 9370        | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 56400      | 56400      | 56400      | 56400      | 56400       | 56400       | 56400       | 56400       | -            | <b>6190</b> |
| Overhung Load (lbs)    | 13200      | 13200      | 13200      | 13200      | 13200       | 13200       | 13100       | 13200       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | 70400      | 70400      | 70400      | 70400      | 70400       | 70400       | 70400       | 70400       | -            | <b>6195</b> |
| Overhung Load (lbs)    | 13200      | 13200      | 13200      | 13200      | 13100       | 13100       | 13000       | 13100       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 81700      | -          | 82300      | -           | 82300       | -           | 77500       | -            | <b>6205</b> |
| Overhung Load (lbs)    | -          | 18900      | -          | 18900      | -           | 18900       | -           | 18900       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 112000     | -          | 112000     | -           | 112000      | -           | 99800       | -            | <b>6215</b> |
| Overhung Load (lbs)    | -          | 23400      | -          | 23400      | -           | 23400       | -           | 23400       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 133000     | -          | 141000     | -           | 141000      | -           | 134000      | -            | <b>6225</b> |
| Overhung Load (lbs)    | -          | 32600      | -          | 32600      | -           | 32600       | -           | 32600       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 168000     | -          | 181000     | -           | 181000      | -           | 152000      | -            | <b>6235</b> |
| Overhung Load (lbs)    | -          | 40100      | -          | 40100      | -           | 40100       | -           | 40100       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 228000     | -          | 228000     | -           | 228000      | -           | 200000      | -            | <b>6245</b> |
| Overhung Load (lbs)    | -          | 46700      | -          | 46700      | -           | 46700       | -           | 46700       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 287000     | -          | 306000     | -           | 306000      | -           | 274000      | -            | <b>6255</b> |
| Overhung Load (lbs)    | -          | 58000      | -          | 58000      | -           | 58000       | -           | 58000       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 407000     | -          | 407000     | -           | 407000      | -           | 390000      | -            | <b>6265</b> |
| Overhung Load (lbs)    | -          | 61900      | -          | 61900      | -           | 61900       | -           | 61900       | -            |             |
| <b>Input HP</b>        | -          | -          | -          | -          | -           | -           | -           | -           | -            |             |
| Output Torque (in•lbs) | -          | 603000     | -          | 603000     | -           | 603000      | -           | 603000      | -            | <b>6275</b> |
| Overhung Load (lbs)    | -          | 55800      | -          | 55800      | -           | 55800       | -           | 55100       | -            |             |

Speed Reducers

Selection Tables

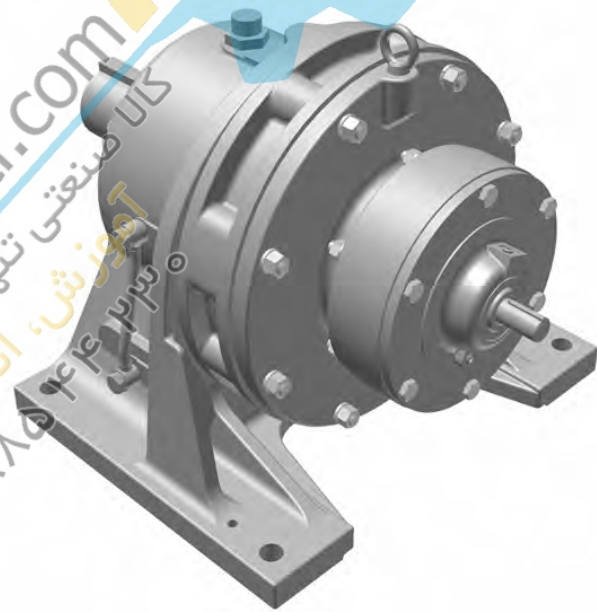
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# Selection Tables

## Double Reduction



Speed  
Reducers

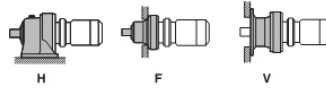
Selection  
Tables

## Single Reduction see page 3.2



# Frame Size Selection Tables 1750 RPM

## Double Reduction, Ratios 104-731 H, F, V Housing Styles



Dimensions:

Pages  
Foot Mount (H) 4.21-4.35  
F-Flange (F) 4.47-4.61  
V-Flange (V) 4.81-4.97

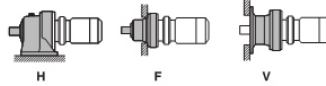
| Output RPM Ratio       | 16.8<br>104 | 14.5<br>121 | 12.2<br>143 | 10.6<br>165 | 8.97<br>195 | 7.58<br>231 | 6.41<br>273 | 5.49<br>319 | 4.64<br>377 | 3.70<br>473 | 3.13<br>559 | 2.70<br>649 | 2.39<br>731 | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | -           | 0.13        | 6060DA     |
| Output Torque (in•lbs) | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | -           | 213         |            |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | -           | 265         |            |
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | -           | 0.13        | 6065DA     |
| Output Torque (in•lbs) | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | -           | 266         |            |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | -           | 265         |            |
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6070DA     |
| Output Torque (in•lbs) | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         |            |
| Overhung Load (lbs)    | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         |            |
| <b>Input HP</b>        | 0.16        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6075DA     |
| Output Torque (in•lbs) | 531         | 450         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 508         | 531         |            |
| Overhung Load (lbs)    | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 373         | 373         | 355         | 373         |            |
| <b>Input HP</b>        | 0.40        | 0.34        | 0.29        | 0.25        | 0.21        | 0.18        | 0.15        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6090DA     |
| Output Torque (in•lbs) | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1290        | 1330        |            |
| Overhung Load (lbs)    | 750         | 750         | 750         | 750         | 750         | 750         | 750         | 741         | 741         | 745         | 745         | 741         | 745         |            |
| <b>Input HP</b>        | 0.48        | 0.36        | 0.35        | 0.33        | 0.28        | 0.24        | 0.20        | 0.17        | 0.15        | 0.13        | 0.13        | -           | 0.13        | 6095DA     |
| Output Torque (in•lbs) | 1600        | 1420        | 1620        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | -           | 1770        |            |
| Overhung Load (lbs)    | 750         | 750         | 750         | 750         | 750         | 750         | 719         | 719         | 723         | 723         | 723         | -           | 723         |            |
| <b>Input HP</b>        | 0.58        | 0.57        | 0.48        | 0.41        | 0.35        | 0.30        | 0.25        | 0.22        | 0.18        | 0.15        | 0.13        | 0.13        | 0.13        | 6100DA     |
| Output Torque (in•lbs) | 1940        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        |            |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        |            |
| <b>Input HP</b>        | 0.58        | 0.58        | 0.57        | 0.50        | 0.42        | 0.35        | 0.30        | 0.26        | 0.22        | 0.17        | 0.15        | 0.13        | 0.13        | 6105DA     |
| Output Torque (in•lbs) | 1940        | 2260        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2620        | 2660        |            |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1140        | 1210        |            |
| <b>Input HP</b>        | 1.38        | 1.19        | 1.00        | 0.87        | 0.74        | 0.62        | 0.52        | 0.45        | 0.38        | 0.30        | 0.26        | 0.22        | 0.20        | 6120DB     |
| Output Torque (in•lbs) | 4640        | 4640        | 4640        | 4640        | 4640        | 4620        | 4620        | 4600        | 4600        | 4640        | 4640        | 4640        | 4640        |            |
| Overhung Load (lbs)    | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        |            |
| <b>Input HP</b>        | 1.65        | 1.41        | 1.20        | 1.04        | 0.88        | 0.75        | 0.63        | 0.54        | 0.46        | 0.36        | 0.31        | 0.27        | 0.24        | 6125DB     |
| Output Torque (in•lbs) | 5570        | 5500        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        |            |
| Overhung Load (lbs)    | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | 0.58        | 0.58        | 0.57        | 0.45        | 0.38        | 0.38        | 0.29        | 6130DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | 5100        | 5950        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.05        | 1.76        | 1.49        | 1.29        | 1.09        | 0.92        | 0.78        | 0.67        | 0.57        | 0.45        | 0.38        | 0.38        | 0.29        | 6130DB     |
| Output Torque (in•lbs) | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.05        | 1.76        | 1.49        | 1.29        | 1.09        | 0.92        | 0.78        | 0.67        | 0.57        | 0.45        | 0.38        | 0.38        | 0.29        | 6130DC     |
| Output Torque (in•lbs) | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | 0.58        | 0.58        | 0.54        | 0.46        | 0.44        | 0.35        | 6135DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | 5950        | 7040        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.15        | 2.12        | 1.80        | 1.56        | 1.32        | 1.11        | 0.94        | 0.81        | 0.68        | 0.54        | 0.46        | 0.44        | 0.35        | 6135DB     |
| Output Torque (in•lbs) | 7230        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.47        | 2.12        | 1.80        | 1.56        | 1.32        | 1.11        | 0.94        | 0.81        | 0.68        | 0.54        | 0.46        | 0.44        | 0.35        | 6135DC     |
| Output Torque (in•lbs) | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | -           | 0.58        | 0.58        | 0.58        | 0.52        | 0.46        | 6140DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | -           | 7040        | 8850        | 10400       | 10900       | 10900       |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | -           | 3590        | 3590        | 3590        | 3590        | 3590        |            |
| <b>Input HP</b>        | 2.15        | 2.15        | 2.15        | 2.03        | 1.72        | 1.45        | 1.23        | 1.05        | 0.89        | 0.71        | 0.60        | 0.52        | 0.46        | 6140DB     |
| Output Torque (in•lbs) | 6880        | 7980        | 9480        | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       |            |
| Overhung Load (lbs)    | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        |            |
| <b>Input HP</b>        | 3.22        | 2.77        | 2.34        | 2.03        | 1.72        | 1.45        | 1.23        | 1.05        | 0.89        | 0.71        | 0.60        | 0.52        | 0.46        | 6140DC     |
| Output Torque (in•lbs) | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       |            |
| Overhung Load (lbs)    | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        |            |

**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

# 1750 RPM Frame Size Selection Tables

## Double Reduction, Ratios 841-7569 H, F, V Housing Styles

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.21-4.35 |
| F-Flange (F)   | 4.47-4.61 |
| V-Flange (V)   | 4.81-4.97 |



| Output RPM Ratio       | 2.08<br>841 | 1.74<br>1003 | 1.40<br>1247 | 1.18<br>1479 | 0.946<br>1849 | 0.847<br>2065 | 0.690<br>2537 | 0.575<br>3045 | 0.503<br>3481 | 0.394<br>4437 | 0.341<br>5133 | 0.283<br>6177 | 0.231<br>7569 | FRAME SIZE |
|------------------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| <b>Input HP</b>        | 0.13        | -            | 0.13         | -            | 0.13          | -             | -             | -             | -             | -             | -             | -             | -             | 6060DA     |
| Output Torque (in•lbs) | 213         | -            | 213          | -            | 213           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 265         | -            | 265          | -            | 265           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | -            | 0.13         | -            | 0.13          | -             | -             | -             | -             | -             | -             | -             | -             | 6065DA     |
| Output Torque (in•lbs) | 266         | -            | 266          | -            | 266           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 265         | -            | 265          | -            | 265           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | -            | 0.13          | 0.13          | 0.13          | -             | -             | -             | -             | -             | -             | 6070DA     |
| Output Torque (in•lbs) | 398         | 398          | 398          | -            | 398           | 398           | 398           | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 397         | 397          | 397          | -            | 397           | 397           | 397           | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | -            | 0.13          | 0.13          | 0.13          | -             | -             | -             | -             | -             | -             | 6075DA     |
| Output Torque (in•lbs) | 531         | 508          | 531          | -            | 531           | 508           | 508           | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 397         | 355          | 373          | -            | 373           | 355           | 355           | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6090DA     |
| Output Torque (in•lbs) | 1330        | 1290         | 1330         | 1330         | 1330          | 1290          | 1290          | 1330          | 1290          | 1330          | 1330          | -             | -             |            |
| Overhung Load (lbs)    | 741         | 741          | 745          | 745          | 745           | 741           | 741           | 745           | 741           | 745           | 745           | -             | -             |            |
| <b>Input HP</b>        | 0.13        | -            | 0.13         | 0.13         | 0.13          | -             | -             | 0.13          | -             | 0.13          | 0.13          | -             | -             | 6095DA     |
| Output Torque (in•lbs) | 1770        | -            | 1770         | 1700         | 1770          | -             | -             | 1700          | -             | 1700          | 1700          | -             | -             |            |
| Overhung Load (lbs)    | 719         | -            | 723          | 728          | 723           | -             | -             | 728           | -             | 728           | 728           | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6100DA     |
| Output Torque (in•lbs) | 2210        | 2210         | 2210         | 2210         | 2210          | 2210          | 2210          | 2210          | 2210          | 2210          | 2210          | -             | -             |            |
| Overhung Load (lbs)    | 1210        | 1210         | 1210         | 1210         | 1210          | 1210          | 1210          | 1210          | 1210          | 1210          | 1210          | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6105DA     |
| Output Torque (in•lbs) | 2660        | 2620         | 2660         | 2660         | 2660          | 2620          | 2620          | 2660          | 2620          | 2660          | 2660          | -             | -             |            |
| Overhung Load (lbs)    | 1210        | 1140         | 1210         | 1080         | 1210          | 1140          | 1140          | 1080          | 1140          | 1080          | 1080          | -             | -             |            |
| <b>Input HP</b>        | 0.17        | 0.14         | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 6120DB     |
| Output Torque (in•lbs) | 4600        | 4640         | 4640         | 4640         | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          |            |
| Overhung Load (lbs)    | 2200        | 2200         | 2200         | 2200         | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          |            |
| <b>Input HP</b>        | 0.21        | 0.17         | 0.14         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 6125DB     |
| Output Torque (in•lbs) | 5570        | 5570         | 5570         | 5570         | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          |            |
| Overhung Load (lbs)    | 2200        | 2200         | 2200         | 2150         | 2200          | 2200          | 2200          | 2150          | 2200          | 2150          | 2150          | 2150          | 2150          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6130DA     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510         | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | -             | -             |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | -             | -             |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6130DB     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510         | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | 7510          | 7510          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6130DC     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510         | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | 7510          | 7510          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.31        | 0.29         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6135DA     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660         | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | -             | -             |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | -             | -             |            |
| <b>Input HP</b>        | 0.31        | 0.29         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6135DB     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660         | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | 8660          | 8660          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.31        | 0.29         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6135DC     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660         | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | 8660          | 8660          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.40        | 0.33         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6140DA     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | -             | -             |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | -             | -             |            |
| <b>Input HP</b>        | 0.40        | 0.33         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6140DB     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |
| <b>Input HP</b>        | 0.40        | 0.33         | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6140DC     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |

Speed Reducers

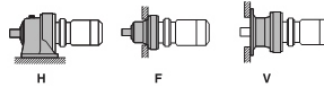
Selection Tables



**NOTE:** Motor HP in **GRAY** is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

# Frame Size Selection Tables 1750 RPM

## Double Reduction, Ratios 104-731 H, F, V Housing Styles



|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.21–4.35 |
| F-Flange (F)   | 4.47–4.61 |
| V-Flange (V)   | 4.81–4.97 |

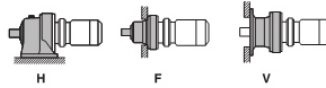
| Output RPM Ratio       | 16.8<br>104 | 14.5<br>121 | 12.2<br>143 | 10.6<br>165 | 8.97<br>195 | 7.58<br>231 | 6.41<br>273 | 5.49<br>319 | 4.64<br>377  | 3.70<br>473  | 3.13<br>559  | 2.70<br>649  | 2.39<br>731  | FRAME SIZE    |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | -           | -            | -            | <b>0.58</b>  | <b>0.58</b>  | <b>0.51</b>  | <b>6145DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | -           | -            | -            | 10400        | 12200        | 12200        |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | -           | -            | -            | 3590         | 3590         | 3530         |               |
| <b>Input HP</b>        | -           | -           | <b>2.15</b> | <b>2.15</b> | <b>1.91</b> | <b>1.58</b> | <b>1.34</b> | <b>1.17</b> | <b>0.99</b>  | <b>0.79</b>  | <b>0.67</b>  | <b>0.58</b>  | <b>0.51</b>  | <b>6145DB</b> |
| Output Torque (in•lbs) | -           | -           | 9900        | 11500       | 12000       | 11800       | 11800       | 12200       | 12200        | 12200        | 12200        | 12200        | 12200        |               |
| Overhung Load (lbs)    | -           | -           | 3590        | 3590        | 3590        | 3590        | 3590        | 3550        | 3550         | 3530         | 3530         | 3590         | 3530         |               |
| <b>Input HP</b>        | <b>3.60</b> | <b>2.91</b> | <b>2.62</b> | <b>2.26</b> | <b>1.91</b> | <b>1.58</b> | <b>1.34</b> | <b>1.17</b> | <b>0.993</b> | <b>0.792</b> | <b>0.670</b> | <b>0.577</b> | <b>0.513</b> | <b>6145DC</b> |
| Output Torque (in•lbs) | 12200       | 11500       | 12200       | 12000       | 12000       | 11800       | 11800       | 12200       | 12200        | 12200        | 12200        | 12200        | 12200        |               |
| Overhung Load (lbs)    | 3570        | 3590        | 3570        | 3590        | 3590        | 3590        | 3590        | 3550        | 3550         | 3530         | 3530         | 3590         | 3530         |               |
| <b>Input HP</b>        | <b>4.62</b> | <b>3.96</b> | <b>3.36</b> | <b>2.91</b> | <b>2.46</b> | <b>2.08</b> | <b>1.76</b> | <b>1.50</b> | <b>1.27</b>  | <b>1.00</b>  | <b>0.85</b>  | <b>0.74</b>  | <b>0.65</b>  | <b>6160DC</b> |
| Output Torque (in•lbs) | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500        | 15400        | 15400        | 15500        | 15400        |               |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960         | 4960         | 4960         | 4960         | 4960         |               |
| <b>Input HP</b>        | <b>5.52</b> | <b>4.74</b> | <b>4.01</b> | <b>3.48</b> | <b>2.94</b> | <b>2.48</b> | <b>2.11</b> | <b>1.80</b> | <b>1.52</b>  | <b>1.21</b>  | <b>1.03</b>  | <b>0.88</b>  | <b>0.79</b>  | <b>6165DC</b> |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600        | 18600        | 18600        | 18600        | 18600        |               |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960         | 4960         | 4960         | 4960         | 4960         |               |
| <b>Input HP</b>        | <b>6.64</b> | <b>5.72</b> | <b>4.83</b> | <b>4.19</b> | <b>3.54</b> | <b>2.99</b> | <b>2.54</b> | <b>2.16</b> | <b>1.84</b>  | <b>1.46</b>  | <b>1.24</b>  | <b>1.07</b>  | <b>0.95</b>  | <b>6170DC</b> |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400        | 22400        | 22400        | 22400        | 22400        |               |
| Overhung Load (lbs)    | 6440        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640         | 6640         | 6640         | 6640         | 6640         |               |
| <b>Input HP</b>        | <b>8.28</b> | <b>7.11</b> | <b>6.03</b> | <b>5.22</b> | <b>4.42</b> | <b>3.73</b> | <b>3.15</b> | <b>2.70</b> | <b>2.28</b>  | <b>1.83</b>  | <b>1.54</b>  | <b>1.33</b>  | <b>1.18</b>  | <b>6175DC</b> |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900        | 27900        | 27900        | 27900        | 27900        |               |
| Overhung Load (lbs)    | 6350        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640         | 6640         | 6640         | 6640         | 6640         |               |
| <b>Input HP</b>        | <b>10.7</b> | <b>9.17</b> | <b>7.76</b> | <b>6.72</b> | <b>5.69</b> | <b>4.79</b> | <b>4.05</b> | <b>3.48</b> | <b>2.94</b>  | <b>2.35</b>  | <b>1.99</b>  | <b>1.70</b>  | <b>1.52</b>  | <b>6180DB</b> |
| Output Torque (in•lbs) | 35900       | 35900       | 35900       | 35900       | 35900       | 35900       | 35800       | 35800       | 35800        | 35900        | 35900        | 35800        | 35900        |               |
| Overhung Load (lbs)    | 8470        | 9040        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370         | 9370         | 9370         | 9370         | 9370         |               |
| <b>Input HP</b>        | <b>12.9</b> | <b>10.9</b> | <b>9.37</b> | <b>8.15</b> | <b>6.90</b> | <b>5.92</b> | <b>5.01</b> | <b>4.28</b> | <b>3.62</b>  | <b>2.89</b>  | <b>2.44</b>  | <b>2.11</b>  | <b>1.87</b>  | <b>6185DB</b> |
| Output Torque (in•lbs) | 43400       | 42500       | 43400       | 43600       | 43600       | 44300       | 44300       | 44300       | 44300        | 44300        | 44300        | 44300        | 44300        |               |
| Overhung Load (lbs)    | 8380        | 8970        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370         | 9370         | 9370         | 9350         | 9370         |               |
| <b>Input HP</b>        | -           | -           | <b>8.39</b> | <b>8.39</b> | <b>8.39</b> | <b>7.54</b> | <b>6.39</b> | <b>5.46</b> | <b>4.63</b>  | <b>3.69</b>  | <b>3.11</b>  | <b>2.68</b>  | <b>2.39</b>  | <b>6190DA</b> |
| Output Torque (in•lbs) | -           | -           | 38800       | 44800       | 52900       | 56400       | 56400       | 56400       | 56400        | 56400        | 56400        | 56400        | 56400        |               |
| Overhung Load (lbs)    | -           | -           | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200        | 13200        | 13200        | 13200        | 13200        |               |
| <b>Input HP</b>        | <b>16.0</b> | <b>14.4</b> | <b>12.2</b> | <b>10.6</b> | <b>8.94</b> | <b>7.54</b> | -           | -           | -            | -            | -            | -            | -            | <b>6190DB</b> |
| Output Torque (in•lbs) | 53900       | 56400       | 56400       | 56400       | 56400       | 56400       | -           | -           | -            | -            | -            | -            | -            |               |
| Overhung Load (lbs)    | 11800       | 12600       | 13100       | 13200       | 13200       | 13200       | -           | -           | -            | -            | -            | -            | -            |               |
| <b>Input HP</b>        | -           | -           | -           | -           | <b>8.39</b> | <b>8.39</b> | <b>7.97</b> | <b>6.82</b> | <b>5.77</b>  | <b>4.60</b>  | <b>3.89</b>  | <b>3.36</b>  | <b>2.98</b>  | <b>6195DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | 52900       | 62800       | 70400       | 70400       | 70400        | 70400        | 70400        | 70400        | 70400        |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | 13200       | 13200       | 13200       | 13200       | 13200        | 13200        | 13200        | 13100        | 13200        |               |
| <b>Input HP</b>        | <b>16.0</b> | <b>16.0</b> | <b>14.6</b> | <b>13.1</b> | <b>11.1</b> | <b>9.42</b> | <b>7.97</b> | -           | -            | -            | -            | -            | -            | <b>6195DB</b> |
| Output Torque (in•lbs) | 53900       | 62800       | 67500       | 70000       | 70000       | 70400       | 70400       | -           | -            | -            | -            | -            | -            |               |
| Overhung Load (lbs)    | 11800       | 12500       | 13000       | 13100       | 13100       | 13200       | 13200       | -           | -            | -            | -            | -            | -            |               |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | <b>7.87</b> | <b>6.50</b> | <b>5.83</b> | <b>4.50</b>  | <b>4.03</b>  | <b>3.28</b>  | <b>3.38</b>  | -            | <b>6205DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | 69500       | 67100       | 71100       | 68800        | 72800        | 68900        | 80100        | -            |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | 18900       | 18900       | 18900       | 18900        | 18900        | 18900        | 18900        | -            |               |
| <b>Input HP</b>        | -           | <b>16.0</b> | -           | <b>15.3</b> | <b>13.0</b> | <b>11.0</b> | <b>9.29</b> | <b>7.91</b> | <b>6.70</b>  | <b>5.37</b>  | <b>4.55</b>  | <b>3.92</b>  | <b>3.48</b>  | <b>6205DB</b> |
| Output Torque (in•lbs) | -           | 62800       | -           | 82000       | 82000       | 82000       | 82000       | 81700       | 81700        | 82300        | 82300        | 82300        | 82300        |               |
| Overhung Load (lbs)    | -           | 18900       | -           | 18900       | 18900       | 18900       | 18900       | 18900       | 18900        | 18900        | 18900        | 18900        | 18900        |               |
| <b>Input HP</b>        | -           | -           | -           | <b>16.0</b> | <b>16.0</b> | <b>14.8</b> | <b>12.5</b> | <b>10.8</b> | <b>9.17</b>  | <b>7.32</b>  | <b>6.19</b>  | <b>5.33</b>  | <b>4.72</b>  | <b>6215DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | 85500       | 95800       | 110000      | 110000      | 112000      | 112000       | 112000       | 112000       | 112000       | 112000       |               |
| Overhung Load (lbs)    | -           | -           | -           | 23400       | 23400       | 23400       | 23400       | 23400       | 23400        | 23400        | 23400        | 23400        | 23400        |               |
| <b>Input HP</b>        | -           | <b>25.6</b> | -           | <b>20.1</b> | <b>17.0</b> | -           | -           | -           | -            | -            | -            | -            | -            | <b>6215DB</b> |
| Output Torque (in•lbs) | -           | 101000      | -           | 108000      | 108000      | -           | -           | -           | -            | -            | -            | -            | -            |               |
| Overhung Load (lbs)    | -           | 22700       | -           | 23400       | 23400       | -           | -           | -           | -            | -            | -            | -            | -            |               |
| <b>Input HP</b>        | -           | -           | -           | -           | <b>16.0</b> | <b>16.0</b> | <b>14.8</b> | <b>12.9</b> | <b>10.9</b>  | <b>9.25</b>  | <b>7.83</b>  | <b>6.68</b>  | <b>5.99</b>  | <b>6225DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | 101000      | 120000      | 131000      | 133000      | 133000       | 141000       | 141000       | 141000       | 141000       |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | 27600       | 29100       | 30600       | 32000       | 32600        | 32600        | 32600        | 32600        | 32600        |               |
| <b>Input HP</b>        | -           | <b>30.3</b> | -           | <b>24.0</b> | <b>20.3</b> | <b>17.4</b> | -           | -           | -            | -            | -            | -            | -            | <b>6225DB</b> |
| Output Torque (in•lbs) | -           | 119000      | -           | 128000      | 128000      | 131000      | -           | -           | -            | -            | -            | -            | -            |               |
| Overhung Load (lbs)    | -           | 23800       | -           | 26000       | 27300       | 29100       | -           | -           | -            | -            | -            | -            | -            |               |

**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

## 1750 RPM Frame Size Selection Tables

### Double Reduction, Ratios 841-7569 H, F, V Housing Styles

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.21-4.35 |
| F-Flange (F)   | 4.47-4.61 |
| V-Flange (V)   | 4.81-4.97 |



| Output RPM Ratio       | 2.08<br>841 | 1.74<br>1003 | 1.40<br>1247 | 1.18<br>1479 | 0.946<br>1849 | 0.847<br>2065 | 0.690<br>2537 | 0.575<br>3045 | 0.503<br>3481 | 0.394<br>4437 | 0.341<br>5133 | 0.283<br>6177 | 0.231<br>7569 | FRAME SIZE |
|------------------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| <b>Input HP</b>        | <b>0.41</b> | <b>0.37</b>  | <b>0.30</b>  | <b>0.27</b>  | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 11000       | 12200        | 12200        | 11000        | 12200         | 12200         | 12200         | 11000         | 12200         | 11000         | 11000         | -             | -             | 6145DA     |
| Overhung Load (lbs)    | 3590        | 3590         | 3530         | 3590         | 3530          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | -             | -             |            |
| <b>Input HP</b>        | <b>0.45</b> | <b>0.37</b>  | <b>0.30</b>  | <b>0.27</b>  | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 12200       | 12200        | 12200        | 11000        | 12200         | 12200         | 12200         | 11000         | 12200         | 11000         | 11000         | 11000         | 11000         | 6145DB     |
| Overhung Load (lbs)    | 3550        | 3590         | 3530         | 3590         | 3530          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |
| <b>Input HP</b>        | <b>0.45</b> | <b>0.37</b>  | <b>0.30</b>  | <b>0.27</b>  | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 12200       | 12200        | 12200        | 11000        | 12200         | 12200         | 12200         | 11000         | 12200         | 11000         | 11000         | 11000         | 11000         | 6145DC     |
| Overhung Load (lbs)    | 3550        | 3590         | 3530         | 3590         | 3530          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |
| <b>Input HP</b>        | <b>0.57</b> | <b>0.54</b>  | <b>0.54</b>  | <b>0.54</b>  | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 15500       | 15500        | 15400        | 15500        | 15400         | 15500         | 15500         | 15500         | 15500         | 15500         | 15500         | 15500         | 15500         | 6160DC     |
| Overhung Load (lbs)    | 4960        | 4960         | 4960         | 4960         | 4960          | 4960          | 4960          | 4960          | 4960          | 4960          | 4960          | 4960          | 4960          |            |
| <b>Input HP</b>        | <b>0.68</b> | <b>0.57</b>  | <b>0.54</b>  | <b>0.54</b>  | <b>0.54</b>   | <b>0.28</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 18600       | 18600        | 18600        | 18100        | 18600         | 18600         | 18600         | 18100         | 18600         | 18100         | 18100         | 18100         | 18100         | 6165DC     |
| Overhung Load (lbs)    | 4960        | 4960         | 4960         | 4890         | 4960          | 4960          | 4960          | 4890          | 4960          | 4890          | 4890          | 4890          | 4890          |            |
| <b>Input HP</b>        | <b>0.82</b> | <b>0.69</b>  | <b>0.55</b>  | <b>0.54</b>  | <b>0.54</b>   | <b>0.54</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 22400       | 22400        | 22400        | 22400        | 22400         | 22400         | 22400         | 22400         | 22400         | 22400         | 22400         | 22400         | 22400         | 6170DC     |
| Overhung Load (lbs)    | 6640        | 6640         | 6640         | 6640         | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          |            |
| <b>Input HP</b>        | <b>1.02</b> | <b>0.86</b>  | <b>0.69</b>  | <b>0.58</b>  | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.28</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   | <b>0.27</b>   |            |
| Output Torque (in•lbs) | 27900       | 27900        | 27900        | 27900        | 27900         | 27900         | 27900         | 27900         | 27900         | 27900         | 27900         | 27900         | 27900         | 6175DC     |
| Overhung Load (lbs)    | 6640        | 6640         | 6640         | 6640         | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          | 6640          |            |
| <b>Input HP</b>        | <b>1.32</b> | <b>1.10</b>  | <b>1.01</b>  | <b>1.01</b>  | <b>0.60</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   |            |
| Output Torque (in•lbs) | 35800       | 35800        | 35900        | 35900        | 35900         | 35800         | 35800         | 35900         | 35800         | 35900         | 35900         | 35900         | 35900         | 6180DB     |
| Overhung Load (lbs)    | 9370        | 9370         | 9370         | 9370         | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          |            |
| <b>Input HP</b>        | <b>1.62</b> | <b>1.36</b>  | <b>1.10</b>  | <b>1.01</b>  | <b>1.01</b>   | <b>1.01</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   | <b>0.54</b>   |            |
| Output Torque (in•lbs) | 44300       | 44300        | 44300        | 44300        | 44300         | 44300         | 44300         | 44300         | 44300         | 44300         | 44300         | 44300         | 44300         | 6185DB     |
| Overhung Load (lbs)    | 9370        | 9370         | 9370         | 9370         | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          | 9370          |            |
| <b>Input HP</b>        | <b>2.07</b> | <b>1.74</b>  | <b>1.40</b>  | <b>1.18</b>  | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   |            |
| Output Torque (in•lbs) | 56400       | 56400        | 56400        | 56400        | 56400         | 56400         | 56400         | 56400         | 56400         | 56400         | 56400         | 56400         | 56400         | 6190DA     |
| Overhung Load (lbs)    | 13200       | 13200        | 13200        | 13200        | 13200         | 13200         | 13200         | 13200         | 13200         | 13200         | 13200         | 13200         | 13200         |            |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | 6190DB     |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | <b>2.59</b> | <b>2.17</b>  | <b>1.74</b>  | <b>1.48</b>  | <b>1.18</b>   | <b>1.05</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   |            |
| Output Torque (in•lbs) | 70400       | 70400        | 70400        | 70400        | 70400         | 70400         | 70400         | 70400         | 70400         | 70400         | 70400         | 70400         | 70400         | 6195DA     |
| Overhung Load (lbs)    | 13200       | 13100        | 13200        | 13100        | 13200         | 13100         | 13100         | 13100         | 13100         | 13100         | 13100         | 13100         | 13100         |            |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | 6195DB     |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | <b>2.99</b> | <b>2.95</b>  | <b>2.95</b>  | <b>2.01</b>  | <b>2.01</b>   | <b>2.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   | <b>1.01</b>   |            |
| Output Torque (in•lbs) | 81700       | 80100        | 82300        | 74000        | 82300         | 82300         | 82300         | 77500         | 82300         | 77500         | 82300         | 77500         | 77500         | 6205DA     |
| Overhung Load (lbs)    | 18900       | 18900        | 18900        | 18900        | 18900         | 18900         | 18900         | 18900         | 18900         | 18900         | 18900         | 18900         | 18900         |            |
| <b>Input HP</b>        | -           | <b>2.95</b>  | -            | <b>2.01</b>  | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Output Torque (in•lbs) | -           | 82300        | -            | 77500        | -             | -             | -             | -             | -             | -             | -             | -             | -             | 6205DB     |
| Overhung Load (lbs)    | -           | 18900        | -            | 18900        | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | <b>4.11</b> | <b>3.45</b>  | <b>2.95</b>  | <b>2.08</b>  | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   |            |
| Output Torque (in•lbs) | 112000      | 112000       | 112000       | 99800        | 112000        | 112000        | 112000        | 99800         | 112000        | 99800         | 112000        | 99800         | 99800         | 6215DA     |
| Overhung Load (lbs)    | 23400       | 23400        | 23400        | 23400        | 23400         | 23400         | 23400         | 23400         | 23400         | 23400         | 23400         | 23400         | 23400         |            |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | 6215DB     |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | <b>4.89</b> | <b>4.32</b>  | <b>3.50</b>  | <b>2.95</b>  | <b>2.36</b>   | <b>2.11</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   | <b>2.01</b>   |            |
| Output Torque (in•lbs) | 133000      | 141000       | 141000       | 134000       | 141000        | 141000        | 141000        | 134000        | 141000        | 134000        | 141000        | 134000        | 134000        | 6225DA     |
| Overhung Load (lbs)    | 32600       | 32600        | 32600        | 32600        | 32600         | 32600         | 32600         | 32600         | 32600         | 32600         | 32600         | 32600         | 32600         |            |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | 6225DB     |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |            |

Speed Reducers

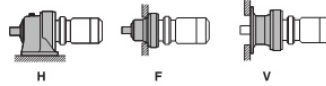
Selection Tables



# Frame Size Selection Tables 1750 RPM

## Double Reduction, Ratios 104-731

### H, V, F Housing Styles



Dimensions:

Pages  
Foot Mount (H) 4.21–4.35  
F-Flange (F) 4.47–4.61  
V-Flange (V) 4.81–4.97

| Output RPM Ratio       | 16.8<br>104 | 14.5<br>121 | 12.2<br>143 | 10.6<br>165 | 8.97<br>195 | 7.58<br>231 | 6.41<br>273 | 5.49<br>319 | 4.64<br>377 | 3.70<br>473 | 3.13<br>559 | 2.70<br>649 | 2.39<br>731 | FRAME SIZE    |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| <b>Input HP</b>        | -           | <b>34.1</b> | -           | <b>32.5</b> | <b>27.5</b> | <b>22.4</b> | <b>18.9</b> | <b>16.2</b> | <b>13.7</b> | <b>11.8</b> | <b>10.0</b> | <b>8.63</b> | <b>7.66</b> | <b>6235DA</b> |
| Output Torque (in•lbs) | -           | 134000      | -           | 174000      | 174000      | 168000      | 168000      | 168000      | 168000      | 181000      | 181000      | 181000      | 181000      |               |
| Overhung Load (lbs)    | -           | 30000       | -           | 32000       | 33700       | 36400       | 38100       | 39900       | 40100       | 40100       | 40100       | 40100       | 40100       |               |
| <b>Input HP</b>        | -           | <b>42.3</b> | -           | <b>32.5</b> | -           | -           | -           | -           | -           | -           | -           | -           | -           | <b>6235DB</b> |
| Output Torque (in•lbs) | -           | 166000      | -           | 174000      | -           | -           | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 29800       | -           | 32000       | -           | -           | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | -           | -           | <b>34.1</b> | <b>32.1</b> | <b>30.5</b> | <b>25.8</b> | <b>22.1</b> | <b>18.7</b> | <b>14.9</b> | <b>12.6</b> | <b>10.9</b> | <b>9.65</b> | <b>6245DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | 182000      | 202000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      |               |
| Overhung Load (lbs)    | -           | -           | -           | 35900       | 37700       | 40100       | 42300       | 44100       | 46500       | 46700       | 46700       | 46700       | 46700       |               |
| <b>Input HP</b>        | -           | <b>46.4</b> | -           | <b>43.5</b> | <b>36.8</b> | <b>30.5</b> | -           | -           | -           | -           | -           | -           | -           | <b>6245DB</b> |
| Output Torque (in•lbs) | -           | 181000      | -           | 233000      | 233000      | 228000      | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 33100       | -           | 35500       | 37500       | 40100       | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | <b>42.7</b> | -           | <b>42.7</b> | <b>42.7</b> | <b>36.6</b> | <b>31.0</b> | <b>27.8</b> | <b>23.5</b> | <b>20.0</b> | <b>16.9</b> | <b>14.5</b> | <b>12.9</b> | <b>6255DA</b> |
| Output Torque (in•lbs) | -           | 168000      | -           | 228000      | 270000      | 274000      | 274000      | 287000      | 287000      | 306000      | 306000      | 306000      | 306000      |               |
| Overhung Load (lbs)    | -           | 40800       | -           | 43900       | 45900       | 48900       | 51600       | 54200       | 57100       | 58000       | 58000       | 58000       | 58000       |               |
| <b>Input HP</b>        | -           | <b>62.1</b> | -           | <b>51.5</b> | <b>43.6</b> | -           | -           | -           | -           | -           | -           | -           | -           | <b>6255DB</b> |
| Output Torque (in•lbs) | -           | 243000      | -           | 276000      | 276000      | -           | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 40600       | -           | 43700       | 45900       | -           | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | <b>68.2</b> | -           | <b>68.2</b> | <b>61.3</b> | <b>54.4</b> | <b>46.0</b> | <b>39.5</b> | <b>33.3</b> | <b>26.6</b> | <b>22.6</b> | <b>19.3</b> | <b>17.2</b> | <b>6265DA</b> |
| Output Torque (in•lbs) | -           | 267000      | -           | 364000      | 387000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      |               |
| Overhung Load (lbs)    | -           | 49600       | -           | 53100       | 55800       | 59500       | 61900       | 61900       | 61900       | 61900       | 61900       | 61900       | 61900       |               |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | <b>58.4</b> | <b>49.4</b> | <b>39.5</b> | <b>33.3</b> | <b>28.7</b> | <b>25.5</b> | <b>6275DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | 603000      | 603000      | 603000      | 603000      | 603000      | 603000      |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | 55800       | 55800       | 55800       | 55800       | 55800       | 55800       |               |

Speed Reducers

Selection Tables



# 1750 RPM Frame Size Selection Tables

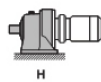
Dimensions:

Pages

Foot Mount (H) 4.21-4.35

F-Flange (F) 4.47-4.61

V-Flange (V) 4.81-4.97



H

F

V

## Double Reduction, Ratios 841-7569 H, V, F Housing Styles

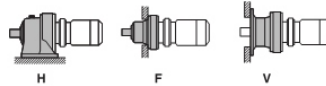
| Output RPM Ratio       | 2.08<br>841 | 1.74<br>1003 | 1.40<br>1247 | 1.18<br>1479 | 0.946<br>1849 | 0.847<br>2065 | 0.690<br>2537 | 0.575<br>3045 | 0.503<br>3481 | 0.394<br>4437 | 0.341<br>5133 | 0.283<br>6177 | 0.231<br>7569 | FRAME SIZE    |
|------------------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Input HP</b>        | <b>6.15</b> | <b>5.58</b>  | <b>4.50</b>  | <b>3.17</b>  | <b>3.03</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>6235DA</b> |
| Output Torque (in•lbs) | 168000      | 181000       | 181000       | 152000       | 181000        | 181000        | 181000        | 152000        | 181000        | 152000        | 181000        | 152000        | 152000        |               |
| Overhung Load (lbs)    | 40100       | 40100        | 40100        | 40100        | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         |               |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6235DB</b> |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>8.39</b> | <b>7.03</b>  | <b>5.65</b>  | <b>4.19</b>  | <b>3.81</b>   | <b>3.41</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>6245DA</b> |
| Output Torque (in•lbs) | 228000      | 228000       | 228000       | 201000       | 228000        | 228000        | 228000        | 201000        | 228000        | 201000        | 228000        | 201000        | 201000        |               |
| Overhung Load (lbs)    | 46700       | 46700        | 46700        | 46700        | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         |               |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6245DB</b> |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>10.6</b> | <b>9.40</b>  | <b>7.56</b>  | <b>5.73</b>  | <b>5.10</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>6255DA</b> |
| Output Torque (in•lbs) | 287000      | 306000       | 306000       | 274000       | 306000        | 306000        | 306000        | 274000        | 306000        | 274000        | 306000        | 274000        | 274000        |               |
| Overhung Load (lbs)    | 58000       | 58000        | 58000        | 58000        | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         |               |
| <b>Input HP</b>        | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6255DB</b> |
| Output Torque (in•lbs) | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Overhung Load (lbs)    | -           | -            | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>14.9</b> | <b>12.5</b>  | <b>10.1</b>  | <b>8.13</b>  | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>6265DA</b> |
| Output Torque (in•lbs) | 407000      | 407000       | 407000       | 390000       | 407000        | 407000        | 407000        | 390000        | 407000        | 390000        | 407000        | 390000        | 390000        |               |
| Overhung Load (lbs)    | 61900       | 61900        | 61900        | 61900        | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         |               |
| <b>Input HP</b>        | <b>22.1</b> | <b>18.5</b>  | <b>14.9</b>  | <b>12.6</b>  | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>6275DA</b> |
| Output Torque (in•lbs) | 603000      | 603000       | 603000       | 603000       | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        |               |
| Overhung Load (lbs)    | 55800       | 55800        | 55800        | 55100        | 55800         | 55800         | 55800         | 55100         | 55800         | 55100         | 55100         | 55100         | 55100         |               |

Speed Reducers

Selection Tables

# Frame Size Selection Tables 1450 RPM

## Double Reduction, Ratios 104-731 H, F, V Housing Styles



Dimensions:

Pages  
Foot Mount (H) 4.21-4.35  
F-Flange (F) 4.47-4.61  
V-Flange (V) 4.81-4.97

**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

| Output RPM Ratio       | 13.9<br>104 | 12.0<br>121 | 10.1<br>143 | 8.79<br>165 | 7.44<br>195 | 6.28<br>231 | 5.31<br>273 | 4.55<br>319 | 3.85<br>377 | 3.07<br>473 | 2.59<br>559 | 2.23<br>649 | 1.98<br>731 | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | -           | 0.13        | 6060DA     |
| Output Torque (in•lbs) | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | 213         | -           | 213         |            |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | -           | 265         |            |
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | -           | 0.13        | 6065DA     |
| Output Torque (in•lbs) | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | 266         | -           | 266         |            |
| Overhung Load (lbs)    | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | 265         | -           | 265         |            |
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6070DA     |
| Output Torque (in•lbs) | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         | 398         |            |
| Overhung Load (lbs)    | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         |            |
| <b>Input HP</b>        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6075DA     |
| Output Torque (in•lbs) | 531         | 450         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 531         | 508         | 531         |            |
| Overhung Load (lbs)    | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 397         | 373         | 373         | 355         | 373         |            |
| <b>Input HP</b>        | 0.33        | 0.28        | 0.24        | 0.21        | 0.17        | 0.15        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 0.13        | 6090DA     |
| Output Torque (in•lbs) | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1330        | 1290        | 1330        |            |
| Overhung Load (lbs)    | 750         | 750         | 750         | 750         | 750         | 750         | 750         | 741         | 741         | 745         | 745         | 741         | 745         |            |
| <b>Input HP</b>        | 0.39        | 0.30        | 0.29        | 0.27        | 0.23        | 0.20        | 0.17        | 0.14        | 0.13        | 0.13        | 0.13        | -           | 0.13        | 6095DA     |
| Output Torque (in•lbs) | 1600        | 1420        | 1620        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | 1770        | -           | 1770        |            |
| Overhung Load (lbs)    | 750         | 750         | 750         | 750         | 750         | 750         | 719         | 719         | 723         | 723         | 723         | -           | 723         |            |
| <b>Input HP</b>        | 0.54        | 0.47        | 0.40        | 0.34        | 0.29        | 0.25        | 0.21        | 0.18        | 0.15        | 0.13        | 0.13        | 0.13        | 0.13        | 6100DA     |
| Output Torque (in•lbs) | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        | 2210        |            |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        |            |
| <b>Input HP</b>        | 0.58        | 0.58        | 0.48        | 0.41        | 0.35        | 0.29        | 0.25        | 0.21        | 0.18        | 0.14        | 0.13        | 0.13        | 0.13        | 6105DA     |
| Output Torque (in•lbs) | 2340        | 2730        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2660        | 2620        | 2660        |            |
| Overhung Load (lbs)    | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1210        | 1140        | 1210        |            |
| <b>Input HP</b>        | 1.14        | 0.98        | 0.83        | 0.72        | 0.61        | 0.51        | 0.43        | 0.37        | 0.31        | 0.25        | 0.21        | 0.18        | 0.16        | 6120DB     |
| Output Torque (in•lbs) | 4640        | 4640        | 4640        | 4640        | 4640        | 4620        | 4620        | 4600        | 4600        | 4640        | 4640        | 4640        | 4640        |            |
| Overhung Load (lbs)    | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        |            |
| <b>Input HP</b>        | 1.37        | 1.16        | 1.00        | 0.86        | 0.73        | 0.62        | 0.52        | 0.45        | 0.38        | 0.30        | 0.26        | 0.22        | 0.19        | 6125DB     |
| Output Torque (in•lbs) | 5570        | 5500        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        | 5570        |            |
| Overhung Load (lbs)    | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        | 2200        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | 0.58        | 0.55        | 0.47        | 0.37        | 0.32        | 0.32        | 0.27        | 6130DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | 6150        | 6900        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 1.70        | 1.46        | 1.23        | 1.07        | 0.91        | 0.77        | 0.65        | 0.55        | 0.47        | 0.37        | 0.32        | 0.32        | 0.27        | 6130DB     |
| Output Torque (in•lbs) | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 1.70        | 1.46        | 1.23        | 1.07        | 0.91        | 0.77        | 0.65        | 0.55        | 0.47        | 0.37        | 0.32        | 0.32        | 0.27        | 6130DC     |
| Output Torque (in•lbs) | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 6900        | 8070        | 6900        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | 0.58        | 0.57        | 0.45        | 0.38        | 0.37        | 0.29        | 6135DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | 7190        | 8320        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.04        | 1.76        | 1.49        | 1.29        | 1.09        | 0.92        | 0.78        | 0.67        | 0.57        | 0.45        | 0.38        | 0.37        | 0.29        | 6135DB     |
| Output Torque (in•lbs) | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | 2.04        | 1.76        | 1.49        | 1.29        | 1.09        | 0.92        | 0.78        | 0.67        | 0.57        | 0.45        | 0.38        | 0.37        | 0.29        | 6135DC     |
| Output Torque (in•lbs) | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 8320        | 9290        | 8320        |            |
| Overhung Load (lbs)    | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        | 3310        |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | -           | 0.58        | 0.58        | 0.50        | 0.43        | 0.38        | 6140DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | -           | 8490        | 10700       | 10900       | 10900       | 10900       |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | -           | 3590        | 3590        | 3590        | 3590        | 3590        |            |
| <b>Input HP</b>        | 2.15        | 2.15        | 1.95        | 1.68        | 1.42        | 1.20        | 1.02        | 0.87        | 0.74        | 0.59        | 0.50        | 0.43        | 0.38        | 6140DB     |
| Output Torque (in•lbs) | 8680        | 10200       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       |            |
| Overhung Load (lbs)    | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        |            |
| <b>Input HP</b>        | 2.67        | 2.30        | 1.95        | 1.68        | 1.42        | 1.20        | 1.02        | 0.87        | 0.74        | 0.59        | 0.50        | 0.43        | 0.38        | 6140DC     |
| Output Torque (in•lbs) | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       | 10900       |            |
| Overhung Load (lbs)    | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        | 3590        |            |

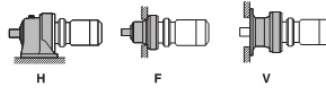


**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

# 1450 RPM Frame Size Selection Tables

## Double Reduction, Ratios 841-7569 H, F, V Housing Styles

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.21-4.35 |
| F-Flange (F)   | 4.47-4.61 |
| V-Flange (V)   | 4.81-4.97 |



| Output RPM Ratio       | 1.72<br>841 | 1.45<br>1003 | 1.16<br>1247 | 0.980<br>1479 | 0.784<br>1849 | 0.702<br>2065 | 0.572<br>2537 | 0.476<br>3045 | 0.417<br>3481 | 0.327<br>4437 | 0.282<br>5133 | 0.235<br>6177 | 0.192<br>7569 | FRAME SIZE |
|------------------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| <b>Input HP</b>        | 0.13        | -            | 0.13         | -             | 0.13          | -             | -             | -             | -             | -             | -             | -             | -             | 6060DA     |
| Output Torque (in•lbs) | 213         | -            | 213          | -             | 213           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 265         | -            | 265          | -             | 265           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | -            | 0.13         | -             | 0.13          | -             | -             | -             | -             | -             | -             | -             | -             | 6065DA     |
| Output Torque (in•lbs) | 266         | -            | 266          | -             | 266           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 265         | -            | 265          | -             | 265           | -             | -             | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | -             | 0.13          | 0.13          | 0.13          | -             | -             | -             | -             | -             | -             | 6070DA     |
| Output Torque (in•lbs) | 398         | 398          | 398          | -             | 398           | 398           | 398           | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 397         | 397          | 397          | -             | 397           | 397           | 397           | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | -             | 0.13          | 0.13          | 0.13          | -             | -             | -             | -             | -             | -             | 6075DA     |
| Output Torque (in•lbs) | 531         | 508          | 531          | -             | 531           | 508           | 508           | -             | -             | -             | -             | -             | -             |            |
| Overhung Load (lbs)    | 397         | 355          | 373          | -             | 373           | 355           | 355           | -             | -             | -             | -             | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6090DA     |
| Output Torque (in•lbs) | 1330        | 1290         | 1330         | 1330          | 1330          | 1290          | 1290          | 1330          | 1290          | 1330          | 1330          | -             | -             |            |
| Overhung Load (lbs)    | 741         | 741          | 745          | 745           | 745           | 741           | 741           | 745           | 741           | 745           | 745           | -             | -             |            |
| <b>Input HP</b>        | 0.13        | -            | 0.13         | 0.13          | 0.13          | -             | -             | 0.13          | -             | 0.13          | 0.13          | -             | -             | 6095DA     |
| Output Torque (in•lbs) | 1770        | -            | 1770         | 1700          | 1770          | -             | -             | 1700          | -             | 1700          | 1700          | -             | -             |            |
| Overhung Load (lbs)    | 719         | -            | 723          | 728           | 723           | -             | -             | 728           | -             | 728           | 728           | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6100DA     |
| Output Torque (in•lbs) | 2210        | 2210         | 2210         | 2210          | 2210          | 2210          | 2210          | 2210          | 2210          | 2210          | 2210          | -             | -             |            |
| Overhung Load (lbs)    | 1210        | 1210         | 1210         | 1210          | 1210          | 1210          | 1210          | 1210          | 1210          | 1210          | 1210          | -             | -             |            |
| <b>Input HP</b>        | 0.13        | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | -             | -             | 6105DA     |
| Output Torque (in•lbs) | 2660        | 2620         | 2660         | 2660          | 2660          | 2620          | 2620          | 2660          | 2620          | 2660          | 2660          | -             | -             |            |
| Overhung Load (lbs)    | 1210        | 1140         | 1210         | 1080          | 1210          | 1140          | 1140          | 1080          | 1140          | 1080          | 1080          | -             | -             |            |
| <b>Input HP</b>        | 0.14        | 0.13         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 6120DB     |
| Output Torque (in•lbs) | 4600        | 4640         | 4640         | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          | 4640          |            |
| Overhung Load (lbs)    | 2200        | 2200         | 2200         | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          | 2200          |            |
| <b>Input HP</b>        | 0.17        | 0.14         | 0.13         | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 6125DB     |
| Output Torque (in•lbs) | 5570        | 5570         | 5570         | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          | 5570          |            |
| Overhung Load (lbs)    | 2200        | 2200         | 2200         | 2150          | 2200          | 2200          | 2200          | 2150          | 2200          | 2150          | 2150          | 2150          | 2150          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6130DA     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510          | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | -             | -             |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | -             | -             |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6130DB     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510          | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | 7510          | 7510          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6130DC     |
| Output Torque (in•lbs) | 6900        | 8070         | 6900         | 7510          | 6900          | 8070          | 8070          | 7510          | 8070          | 7510          | 7510          | 7510          | 7510          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6135DA     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660          | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | -             | -             |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | -             | -             |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6135DB     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660          | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | 8660          | 8660          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.27        | 0.27         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6135DC     |
| Output Torque (in•lbs) | 8320        | 9290         | 8320         | 8660          | 8320          | 9290          | 9290          | 8660          | 9290          | 8660          | 8660          | 8660          | 8660          |            |
| Overhung Load (lbs)    | 3310        | 3310         | 3310         | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          | 3310          |            |
| <b>Input HP</b>        | 0.33        | 0.28         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | -             | -             | 6140DA     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | -             | -             |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | -             | -             |            |
| <b>Input HP</b>        | 0.33        | 0.28         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6140DB     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |
| <b>Input HP</b>        | 0.33        | 0.28         | 0.27         | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 0.27          | 6140DC     |
| Output Torque (in•lbs) | 10900       | 10900        | 10900        | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         | 10900         |            |
| Overhung Load (lbs)    | 3590        | 3590         | 3590         | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          | 3590          |            |

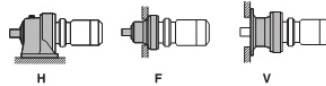
Speed Reducers

Selection Tables



# Frame Size Selection Tables 1450 RPM

## Double Reduction, Ratios 104-731 H, F, V Housing Styles



Dimensions:

Pages  
Foot Mount (H) 4.21-4.35  
F-Flange (F) 4.47-4.61  
V-Flange (V) 4.81-4.97

**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

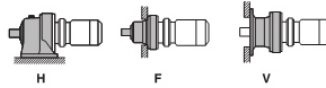
| Output RPM Ratio       | 13.9<br>104 | 12.0<br>121 | 10.1<br>143 | 8.79<br>165 | 7.44<br>195 | 6.28<br>231 | 5.31<br>273 | 4.55<br>319 | 3.85<br>377 | 3.07<br>473 | 2.59<br>559 | 2.23<br>649 | 1.98<br>731 | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 0.55        | 0.48        | 0.42        | 6145DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 12200       | 12200       | 12200       |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 3530        | 3590        | 3530        |            |
| <b>Input HP</b>        | -           | -           | 2.15        | 1.87        | 1.57        | 1.31        | 1.11        | 0.97        | 0.82        | 0.66        | 0.55        | 0.48        | 0.42        | 6145DB     |
| Output Torque (in•lbs) | -           | -           | 12000       | 12000       | 12000       | 11800       | 11800       | 12200       | 12200       | 12200       | 12200       | 12200       | 12200       |            |
| Overhung Load (lbs)    | -           | -           | 3590        | 3590        | 3590        | 3590        | 3590        | 3550        | 3550        | 3530        | 3530        | 3590        | 3530        |            |
| <b>Input HP</b>        | 2.98        | 2.42        | 2.17        | 1.87        | 1.57        | 1.31        | 1.11        | 0.97        | 0.82        | 0.66        | 0.55        | 0.48        | 0.42        | 6145DC     |
| Output Torque (in•lbs) | 12200       | 11500       | 12200       | 12000       | 12000       | 11800       | 11800       | 12200       | 12200       | 12200       | 12200       | 12200       | 12200       |            |
| Overhung Load (lbs)    | 3570        | 3590        | 3570        | 3590        | 3590        | 3590        | 3590        | 3550        | 3550        | 3530        | 3530        | 3590        | 3530        |            |
| <b>Input HP</b>        | 3.83        | 3.29        | 2.78        | 2.40        | 2.04        | 1.72        | 1.45        | 1.25        | 1.05        | 0.83        | 0.70        | 0.61        | 0.54        | 6160DC     |
| Output Torque (in•lbs) | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15500       | 15400       | 15400       | 15500       | 15400       |            |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        |            |
| <b>Input HP</b>        | 4.58        | 3.93        | 3.33        | 2.89        | 2.44        | 2.05        | 1.74        | 1.49        | 1.26        | 1.01        | 0.85        | 0.73        | 0.65        | 6165DC     |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       | 18600       |            |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        | 4960        |            |
| <b>Input HP</b>        | 5.50        | 4.74        | 4.00        | 3.48        | 2.94        | 2.48        | 2.09        | 1.80        | 1.52        | 1.21        | 1.03        | 0.88        | 0.78        | 6170DC     |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       | 22400       |            |
| Overhung Load (lbs)    | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        |            |
| <b>Input HP</b>        | 6.86        | 5.89        | 4.99        | 4.32        | 3.66        | 3.09        | 2.62        | 2.24        | 1.89        | 1.50        | 1.28        | 1.10        | 0.98        | 6175DC     |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       | 27900       |            |
| Overhung Load (lbs)    | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        | 6640        |            |
| <b>Input HP</b>        | 8.85        | 7.60        | 6.43        | 5.57        | 4.71        | 3.97        | 3.36        | 2.87        | 2.43        | 1.95        | 1.64        | 1.41        | 1.26        | 6180DB     |
| Output Torque (in•lbs) | 35900       | 35900       | 35900       | 35900       | 35900       | 35800       | 35800       | 35800       | 35800       | 35900       | 35900       | 35800       | 35900       |            |
| Overhung Load (lbs)    | 9040        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        |            |
| <b>Input HP</b>        | 10.7        | 8.99        | 7.76        | 6.75        | 5.72        | 4.90        | 4.15        | 3.54        | 3.01        | 2.39        | 2.03        | 1.74        | 1.54        | 6185DB     |
| Output Torque (in•lbs) | 43400       | 42500       | 43400       | 43600       | 43600       | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       | 44300       |            |
| Overhung Load (lbs)    | 8950        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9370        | 9350        | 9370        |            |
| <b>Input HP</b>        | -           | -           | 8.39        | 8.39        | 7.41        | 6.26        | 5.29        | 4.52        | 3.88        | 3.06        | 2.59        | 2.23        | 1.97        | 6190DA     |
| Output Torque (in•lbs) | -           | -           | 46900       | 54100       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       |            |
| Overhung Load (lbs)    | -           | -           | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       |            |
| <b>Input HP</b>        | 13.8        | 11.9        | 10.1        | 8.75        | 7.41        | 6.26        | -           | -           | -           | -           | -           | -           | -           | 6190DB     |
| Output Torque (in•lbs) | 56400       | 56400       | 56400       | 56400       | 56400       | 56400       | -           | -           | -           | -           | -           | -           | -           |            |
| Overhung Load (lbs)    | 12500       | 13200       | 13200       | 13200       | 13200       | 13200       | -           | -           | -           | -           | -           | -           | -           |            |
| <b>Input HP</b>        | -           | -           | -           | 7.56        | 7.80        | 6.60        | 5.65        | 4.78        | 3.81        | 3.22        | 2.78        | 2.47        | -           | 6195DA     |
| Output Torque (in•lbs) | -           | -           | -           | 57500       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       | 70400       |            |
| Overhung Load (lbs)    | -           | -           | -           | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13200       | 13100       | 13200       |            |
| <b>Input HP</b>        | 16.0        | 14.2        | 12.1        | 10.9        | 9.18        | 7.60        | 6.60        | -           | -           | -           | -           | -           | -           | 6195DB     |
| Output Torque (in•lbs) | 65100       | 67100       | 67500       | 70000       | 70000       | 70400       | 70400       | -           | -           | -           | -           | -           | -           |            |
| Overhung Load (lbs)    | 12500       | 13200       | 13100       | 13100       | 13100       | 13200       | 13200       | -           | -           | -           | -           | -           | -           |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | 6.94        | 5.73        | 5.14        | 3.96        | 3.54        | 2.95        | 2.95        | -           | 6205DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | 74000       | 71400       | 75700       | 73300       | 77500       | 73400       | 82300       | -           |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | -           |            |
| <b>Input HP</b>        | -           | 16.0        | -           | 12.7        | 10.8        | 9.09        | 7.69        | 6.55        | 5.54        | 4.46        | 3.77        | 3.25        | 2.95        | 6205DB     |
| Output Torque (in•lbs) | -           | 75700       | -           | 82000       | 82000       | 82000       | 82000       | 81700       | 81700       | 82300       | 82300       | 82300       | 82300       |            |
| Overhung Load (lbs)    | -           | 18900       | -           | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       | 18900       |            |
| <b>Input HP</b>        | -           | -           | -           | 16.0        | 14.1        | 12.3        | 10.4        | 8.98        | 7.60        | 6.05        | 5.13        | 4.42        | 3.92        | 6215DA     |
| Output Torque (in•lbs) | -           | -           | -           | 103000      | 108000      | 110000      | 110000      | 112000      | 112000      | 112000      | 112000      | 112000      | 112000      |            |
| Overhung Load (lbs)    | -           | -           | -           | 23400       | 23400       | 23400       | 23400       | 23400       | 23400       | 23400       | 23400       | 23400       | 23400       |            |
| <b>Input HP</b>        | -           | 21.3        | -           | 16.6        | 14.1        | -           | -           | -           | -           | -           | -           | -           | -           | 6215DB     |
| Output Torque (in•lbs) | -           | 101000      | -           | 108000      | 108000      | -           | -           | -           | -           | -           | -           | -           | -           |            |
| Overhung Load (lbs)    | -           | 23400       | -           | 23400       | 23400       | -           | -           | -           | -           | -           | -           | -           | -           |            |
| <b>Input HP</b>        | -           | -           | -           | -           | 14.5        | 14.5        | 12.3        | 10.7        | 9.03        | 7.66        | 6.48        | 5.54        | 4.95        | 6225DA     |
| Output Torque (in•lbs) | -           | -           | -           | -           | 110000      | 131000      | 131000      | 133000      | 133000      | 141000      | 141000      | 141000      | 141000      |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | 29100       | 30900       | 32400       | 32600       | 32600       | 32600       | 32600       | 32600       | 32600       |            |
| <b>Input HP</b>        | -           | 25.2        | -           | 19.9        | 16.8        | 14.5        | -           | -           | -           | -           | -           | -           | -           | 6225DB     |
| Output Torque (in•lbs) | -           | 119000      | -           | 128000      | 128000      | 131000      | -           | -           | -           | -           | -           | -           | -           |            |
| Overhung Load (lbs)    | -           | 25400       | -           | 27600       | 28900       | 30900       | -           | -           | -           | -           | -           | -           | -           |            |

**NOTE:** Motor HP in GRAY is to overcome breakaway torque requirements in cold temperatures or high inertia applications. A torque limiting device is recommended to protect the unit or driven machine.

# 1450 RPM Frame Size Selection Tables

## Double Reduction, Ratios 841-7569 H, F, V Housing Styles

|                |           |
|----------------|-----------|
| Dimensions:    | Pages     |
| Foot Mount (H) | 4.21-4.35 |
| F-Flange (F)   | 4.47-4.61 |
| V-Flange (V)   | 4.81-4.97 |



| Output RPM Ratio       | 1.72        | 1.45        | 1.16        | 0.980       | 0.784  | 0.702       | 0.572       | 0.476  | 0.417  | 0.327  | 0.282  | 0.235  | 0.192  | FRAME SIZE |
|------------------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|--------|--------|--------|--------|--------|--------|------------|
|                        | 841         | 1003        | 1247        | 1479        | 1849   | 2065        | 2537        | 3045   | 3481   | 4437   | 5133   | 6177   | 7569   |            |
| <b>Input HP</b>        | <b>0.37</b> | <b>0.31</b> | 0.27        | 0.27        | 0.27   | 0.27        | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | -      | -      | 6145DA     |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 11000       | 12200  | 12200       | 12200       | 11000  | 12200  | 11000  | 11000  | -      | -      |            |
| Overhung Load (lbs)    | 3550        | 3590        | 3530        | 3590        | 3530   | 3590        | 3590        | 3590   | 3590   | 3590   | 3590   | -      | -      |            |
| <b>Input HP</b>        | <b>0.37</b> | <b>0.31</b> | 0.27        | 0.27        | 0.27   | 0.27        | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6145DB     |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 11000       | 12200  | 12200       | 12200       | 11000  | 12200  | 11000  | 11000  | 11000  | 11000  |            |
| Overhung Load (lbs)    | 3550        | 3590        | 3530        | 3590        | 3530   | 3590        | 3590        | 3590   | 3590   | 3590   | 3590   | 3590   | 3590   |            |
| <b>Input HP</b>        | <b>0.37</b> | <b>0.31</b> | 0.27        | 0.27        | 0.27   | 0.27        | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6145DC     |
| Output Torque (in•lbs) | 12200       | 12200       | 12200       | 11000       | 12200  | 12200       | 12200       | 11000  | 12200  | 11000  | 11000  | 11000  | 11000  |            |
| Overhung Load (lbs)    | 3550        | 3590        | 3530        | 3590        | 3530   | 3590        | 3590        | 3590   | 3590   | 3590   | 3590   | 3590   | 3590   |            |
| <b>Input HP</b>        | 0.54        | 0.54        | 0.54        | <b>0.27</b> | 0.27   | 0.27        | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6160DC     |
| Output Torque (in•lbs) | 15500       | 15500       | 15400       | 15500       | 15400  | 15500       | 15500       | 15500  | 15500  | 15500  | 15500  | 15500  | 15500  |            |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4960        | 4960   | 4960        | 4960        | 4960   | 4960   | 4960   | 4960   | 4960   | 4960   |            |
| <b>Input HP</b>        | <b>0.57</b> | 0.54        | 0.54        | 0.54        | 0.27   | 0.27        | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6165DC     |
| Output Torque (in•lbs) | 18600       | 18600       | 18600       | 18100       | 18600  | 18600       | 18600       | 18100  | 18600  | 18100  | 18100  | 18100  | 18100  |            |
| Overhung Load (lbs)    | 4960        | 4960        | 4960        | 4890        | 4960   | 4960        | 4960        | 4890   | 4960   | 4890   | 4890   | 4890   | 4890   |            |
| <b>Input HP</b>        | <b>0.68</b> | <b>0.57</b> | 0.54        | 0.54        | 0.54   | <b>0.28</b> | 0.27        | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6170DC     |
| Output Torque (in•lbs) | 22400       | 22400       | 22400       | 22400       | 22400  | 22400       | 22400       | 22400  | 22400  | 22400  | 22400  | 22400  | 22400  |            |
| Overhung Load (lbs)    | 6640        | 6640        | 6640        | 6640        | 6640   | 6640        | 6640        | 6640   | 6640   | 6640   | 6640   | 6640   | 6640   |            |
| <b>Input HP</b>        | <b>0.85</b> | <b>0.71</b> | <b>0.57</b> | 0.54        | 0.54   | 0.54        | <b>0.28</b> | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 0.27   | 6175DC     |
| Output Torque (in•lbs) | 27900       | 27900       | 27900       | 27900       | 27900  | 27900       | 27900       | 27900  | 27900  | 27900  | 27900  | 27900  | 27900  |            |
| Overhung Load (lbs)    | 6640        | 6640        | 6640        | 6640        | 6640   | 6640        | 6640        | 6640   | 6640   | 6640   | 6640   | 6640   | 6640   |            |
| <b>Input HP</b>        | <b>1.09</b> | 1.01        | 1.01        | <b>0.62</b> | 0.54   | 0.54        | 0.54        | 0.54   | 0.54   | 0.54   | 0.54   | 0.54   | 0.54   | 6180DB     |
| Output Torque (in•lbs) | 35800       | 35800       | 35900       | 35900       | 35900  | 35800       | 35800       | 35900  | 35800  | 35900  | 35900  | 35900  | 35900  |            |
| Overhung Load (lbs)    | 9370        | 9370        | 9370        | 9370        | 9370   | 9370        | 9370        | 9370   | 9370   | 9370   | 9370   | 9370   | 9370   |            |
| <b>Input HP</b>        | <b>1.34</b> | <b>1.13</b> | 1.01        | 1.01        | 1.01   | <b>0.55</b> | 0.54        | 0.54   | 0.54   | 0.54   | 0.54   | 0.54   | 0.54   | 6185DB     |
| Output Torque (in•lbs) | 44300       | 44300       | 44300       | 44300       | 44300  | 44300       | 44300       | 44300  | 44300  | 44300  | 44300  | 44300  | 44300  |            |
| Overhung Load (lbs)    | 9370        | 9370        | 9370        | 9370        | 9370   | 9370        | 9370        | 9370   | 9370   | 9370   | 9370   | 9370   | 9370   |            |
| <b>Input HP</b>        | <b>1.72</b> | <b>1.44</b> | <b>1.16</b> | 1.01        | 1.01   | 1.01        | 1.01        | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 6190DA     |
| Output Torque (in•lbs) | 56400       | 56400       | 56400       | 56400       | 56400  | 56400       | 56400       | 56400  | 56400  | 56400  | 56400  | 56400  | 56400  |            |
| Overhung Load (lbs)    | 13200       | 13200       | 13200       | 13200       | 13200  | 13200       | 13200       | 13200  | 13200  | 13200  | 13200  | 13200  | 13200  |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      | 6190DB     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| <b>Input HP</b>        | <b>2.15</b> | <b>1.80</b> | <b>1.45</b> | <b>1.22</b> | 1.01   | 1.01        | 1.01        | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 6195DA     |
| Output Torque (in•lbs) | 70400       | 70400       | 70400       | 70400       | 70400  | 70400       | 70400       | 70400  | 70400  | 70400  | 70400  | 70400  | 70400  |            |
| Overhung Load (lbs)    | 13200       | 13100       | 13200       | 13100       | 13200  | 13100       | 13100       | 13100  | 13100  | 13100  | 13100  | 13100  | 13100  |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      | 6195DB     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| <b>Input HP</b>        | <b>2.95</b> | <b>2.95</b> | 2.01        | 2.01        | 2.01   | 2.01        | 1.01        | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 1.01   | 6205DA     |
| Output Torque (in•lbs) | 81700       | 82300       | 82300       | 77500       | 82300  | 82300       | 82300       | 77500  | 82300  | 77500  | 82300  | 77500  | 77500  |            |
| Overhung Load (lbs)    | 18900       | 18900       | 18900       | 18900       | 18900  | 18900       | 18900       | 18900  | 18900  | 18900  | 18900  | 18900  | 18900  |            |
| <b>Input HP</b>        | -           | 2.95        | -           | 2.01        | -      | -           | -           | -      | -      | -      | -      | -      | -      | 6205DB     |
| Output Torque (in•lbs) | -           | 82300       | -           | 77500       | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| Overhung Load (lbs)    | -           | 18900       | -           | 18900       | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| <b>Input HP</b>        | <b>3.41</b> | 2.95        | 2.95        | 2.01        | 2.01   | 2.01        | 2.01        | 2.01   | 2.01   | 2.01   | 2.01   | 2.01   | 2.01   | 6215DA     |
| Output Torque (in•lbs) | 112000      | 112000      | 112000      | 99800       | 112000 | 112000      | 112000      | 99800  | 112000 | 99800  | 112000 | 99800  | 99800  |            |
| Overhung Load (lbs)    | 23400       | 23400       | 23400       | 23400       | 23400  | 23400       | 23400       | 23400  | 23400  | 23400  | 23400  | 23400  | 23400  |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      | 6215DB     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| <b>Input HP</b>        | <b>4.05</b> | <b>3.58</b> | 2.95        | 2.95        | 2.01   | 2.01        | 2.01        | 2.01   | 2.01   | 2.01   | 2.01   | 2.01   | 2.01   | 6225DA     |
| Output Torque (in•lbs) | 133000      | 141000      | 141000      | 134000      | 141000 | 141000      | 141000      | 134000 | 141000 | 134000 | 141000 | 134000 | 134000 |            |
| Overhung Load (lbs)    | 32600       | 32600       | 32600       | 32600       | 32600  | 32600       | 32600       | 32600  | 32600  | 32600  | 32600  | 32600  | 32600  |            |
| <b>Input HP</b>        | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      | 6225DB     |
| Output Torque (in•lbs) | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |
| Overhung Load (lbs)    | -           | -           | -           | -           | -      | -           | -           | -      | -      | -      | -      | -      | -      |            |

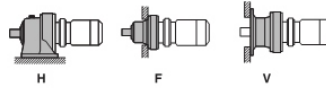
Speed Reducers

Selection Tables



# Frame Size Selection Tables 1450 RPM

## Double Reduction, Ratios 104-731 H, V, F Housing Styles



Dimensions:

Pages  
Foot Mount (H) 4.21–4.35  
F-Flange (F) 4.47–4.61  
V-Flange (V) 4.81–4.97

| Output RPM Ratio       | 13.9<br>104 | 12.0<br>121 | 10.1<br>143 | 8.79<br>165 | 7.44<br>195 | 6.28<br>231 | 5.31<br>273 | 4.55<br>319 | 3.85<br>377 | 3.07<br>473 | 2.59<br>559 | 2.23<br>649 | 1.98<br>731 | FRAME SIZE    |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| <b>Input HP</b>        | -           | <b>34.1</b> | -           | <b>26.8</b> | <b>22.8</b> | <b>18.5</b> | <b>15.7</b> | <b>13.4</b> | <b>11.4</b> | <b>9.81</b> | <b>8.31</b> | <b>7.15</b> | <b>6.35</b> | <b>6235DA</b> |
| Output Torque (in•lbs) | -           | 161000      | -           | 174000      | 174000      | 168000      | 168000      | 168000      | 168000      | 181000      | 181000      | 181000      | 181000      |               |
| Overhung Load (lbs)    | -           | 31500       | -           | 34000       | 35700       | 38400       | 40100       | 40100       | 40100       | 40100       | 40100       | 40100       | 40100       |               |
| <b>Input HP</b>        | -           | <b>35.0</b> | -           | <b>26.8</b> | -           | -           | -           | -           | -           | -           | -           | -           | -           | <b>6235DB</b> |
| Output Torque (in•lbs) | -           | 166000      | -           | 174000      | -           | -           | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 31500       | -           | 34000       | -           | -           | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | -           | -           | <b>34.1</b> | <b>30.5</b> | <b>25.2</b> | <b>21.3</b> | <b>18.3</b> | <b>15.4</b> | <b>12.3</b> | <b>10.5</b> | <b>9.01</b> | <b>7.99</b> | <b>6245DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | 220000      | 233000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      | 228000      |               |
| Overhung Load (lbs)    | -           | -           | -           | 37700       | 39700       | 42500       | 44800       | 46700       | 46700       | 46700       | 46700       | 46700       | 46700       |               |
| <b>Input HP</b>        | -           | <b>38.4</b> | -           | <b>36.0</b> | <b>30.5</b> | <b>25.2</b> | -           | -           | -           | -           | -           | -           | -           | <b>6245DB</b> |
| Output Torque (in•lbs) | -           | 181000      | -           | 233000      | 233000      | 228000      | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 35053       | -           | 37699       | 39700       | 42500       | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | <b>42.7</b> | -           | <b>42.7</b> | <b>36.2</b> | <b>30.3</b> | <b>25.8</b> | <b>23.1</b> | <b>19.5</b> | <b>16.5</b> | <b>14.0</b> | <b>12.0</b> | <b>10.7</b> | <b>6255DA</b> |
| Output Torque (in•lbs) | -           | 202000      | -           | 275000      | 276000      | 274000      | 274000      | 287000      | 287000      | 306000      | 306000      | 306000      | 306000      |               |
| Overhung Load (lbs)    | -           | 43200       | -           | 46300       | 48700       | 51800       | 54500       | 57300       | 58000       | 58000       | 58000       | 58000       | 58000       |               |
| <b>Input HP</b>        | -           | <b>51.4</b> | -           | <b>42.8</b> | <b>36.2</b> | -           | -           | -           | -           | -           | -           | -           | -           | <b>6255DB</b> |
| Output Torque (in•lbs) | -           | 243000      | -           | 276000      | 276000      | -           | -           | -           | -           | -           | -           | -           | -           |               |
| Overhung Load (lbs)    | -           | 43000       | -           | 46300       | 48700       | -           | -           | -           | -           | -           | -           | -           | -           |               |
| <b>Input HP</b>        | -           | <b>58.7</b> | -           | <b>60.0</b> | <b>50.7</b> | <b>45.1</b> | <b>38.1</b> | <b>32.6</b> | <b>27.7</b> | <b>22.0</b> | <b>18.7</b> | <b>16.1</b> | <b>14.2</b> | <b>6265DA</b> |
| Output Torque (in•lbs) | -           | 277000      | -           | 387000      | 387000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      | 407000      |               |
| Overhung Load (lbs)    | -           | 52500       | -           | 56200       | 59100       | 61900       | 61900       | 61900       | 61900       | 61900       | 61900       | 61900       | 61900       |               |
| <b>Input HP</b>        | -           | -           | -           | -           | -           | -           | -           | <b>48.5</b> | <b>40.9</b> | <b>32.6</b> | <b>27.7</b> | <b>23.8</b> | <b>21.1</b> | <b>6275DA</b> |
| Output Torque (in•lbs) | -           | -           | -           | -           | -           | -           | -           | 603000      | 603000      | 603000      | 603000      | 603000      | 603000      |               |
| Overhung Load (lbs)    | -           | -           | -           | -           | -           | -           | -           | 55800       | 55800       | 55800       | 55800       | 55800       | 55800       |               |

Speed  
ReducersSelection  
Tables



# 1450 RPM Frame Size Selection Tables

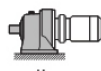
Dimensions:

Pages

Foot Mount (H) 4.21-4.35

F-Flange (F) 4.47-4.61

V-Flange (V) 4.81-4.97



## Double Reduction, Ratios 841-7569 H, V, F Housing Styles

| Output RPM Ratio       | 1.72<br>841 | 1.45<br>1003 | 1.16<br>1247 | 0.980<br>1479 | 0.784<br>1849 | 0.702<br>2065 | 0.572<br>2537 | 0.476<br>3045 | 0.417<br>3481 | 0.327<br>4437 | 0.282<br>5133 | 0.235<br>6177 | 0.192<br>7569 | FRAME SIZE    |
|------------------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Input HP</b>        | <b>5.09</b> | <b>4.63</b>  | <b>3.72</b>  | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   |               |
| Output Torque (in•lbs) | 168000      | 181000       | 181000       | 152000        | 181000        | 181000        | 181000        | 152000        | 181000        | 152000        | 181000        | 152000        | 152000        | <b>6235DA</b> |
| Overhung Load (lbs)    | 40100       | 40100        | 40100        | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         | 40100         |               |
| <b>Input HP</b>        | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Output Torque (in•lbs) | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6235DB</b> |
| Overhung Load (lbs)    | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>6.95</b> | <b>5.83</b>  | <b>4.68</b>  | <b>3.46</b>   | <b>3.15</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   | <b>2.95</b>   |               |
| Output Torque (in•lbs) | 228000      | 228000       | 228000       | 201000        | 228000        | 228000        | 228000        | 201000        | 228000        | 201000        | 228000        | 201000        | 201000        | <b>6245DA</b> |
| Overhung Load (lbs)    | 46700       | 46700        | 46700        | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         | 46700         |               |
| <b>Input HP</b>        | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Output Torque (in•lbs) | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6245DB</b> |
| Overhung Load (lbs)    | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>8.74</b> | <b>7.79</b>  | <b>6.27</b>  | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   | <b>4.97</b>   |               |
| Output Torque (in•lbs) | 287000      | 306000       | 306000       | 274000        | 306000        | 306000        | 306000        | 274000        | 306000        | 274000        | 306000        | 274000        | 274000        | <b>6255DA</b> |
| Overhung Load (lbs)    | 58000       | 58000        | 58000        | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         | 58000         |               |
| <b>Input HP</b>        | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| Output Torque (in•lbs) | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | <b>6255DB</b> |
| Overhung Load (lbs)    | -           | -            | -            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |               |
| <b>Input HP</b>        | <b>12.4</b> | <b>10.4</b>  | <b>8.35</b>  | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   | <b>7.38</b>   |               |
| Output Torque (in•lbs) | 407000      | 407000       | 407000       | 390000        | 407000        | 407000        | 407000        | 390000        | 407000        | 390000        | 407000        | 390000        | 390000        | <b>6265DA</b> |
| Overhung Load (lbs)    | 61900       | 61900        | 61900        | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         | 61900         |               |
| <b>Input HP</b>        | <b>18.4</b> | <b>15.4</b>  | <b>12.4</b>  | <b>10.4</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   | <b>10.1</b>   |               |
| Output Torque (in•lbs) | 603000      | 603000       | 603000       | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | 603000        | <b>6275DA</b> |
| Overhung Load (lbs)    | 55800       | 55800        | 55800        | 55100         | 55800         | 55800         | 55800         | 55100         | 55800         | 55100         | 55100         | 55100         | 55100         |               |

Speed Reducers

Selection Tables

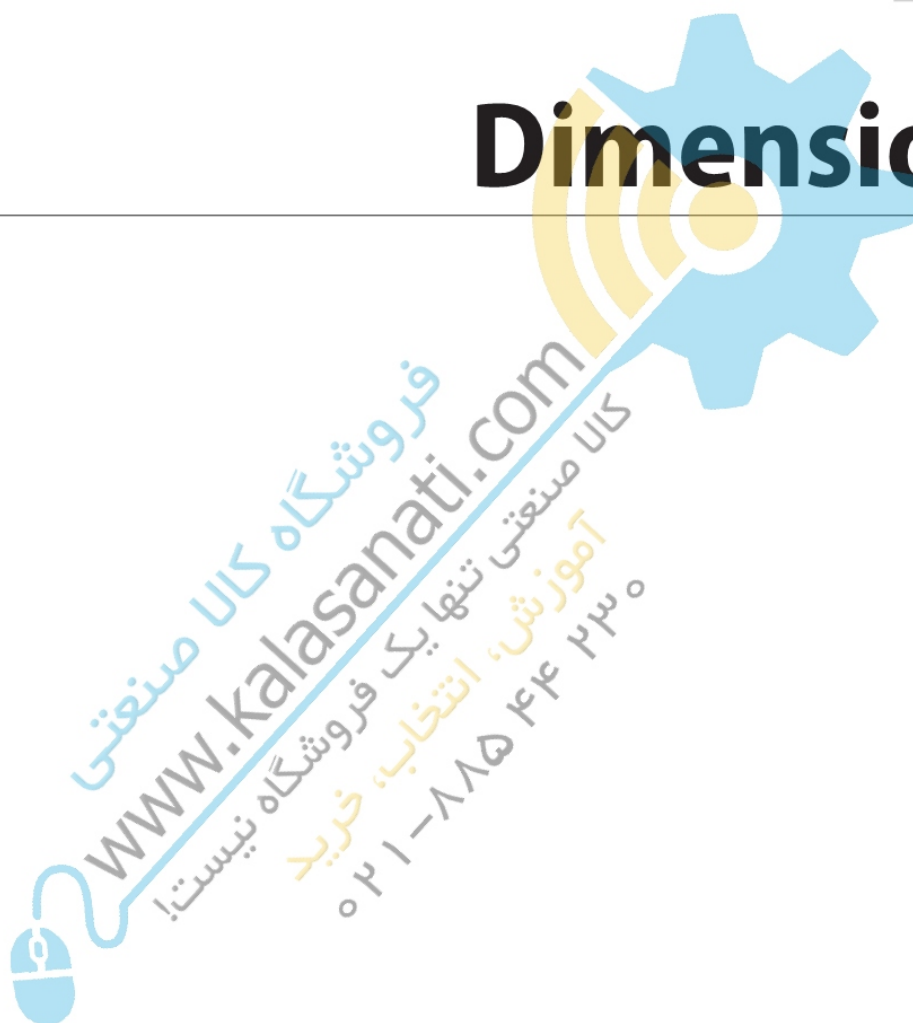
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Speed  
Reducers  
  
Selection  
Tables



# 4

## Dimensions

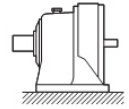


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Speed  
Reducers

Dimensions

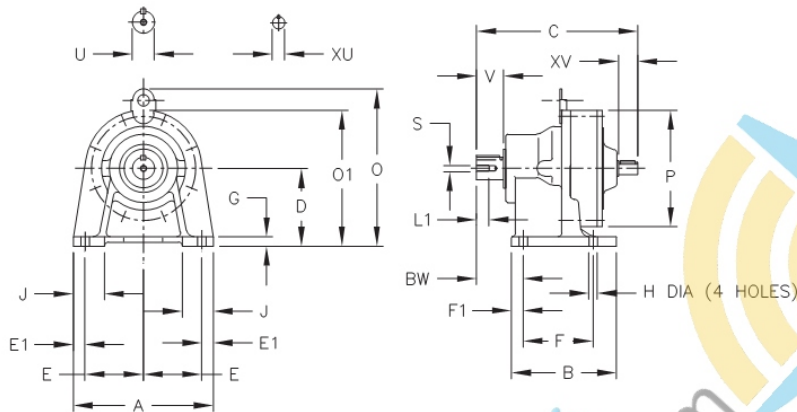




# Dimensions Foot Mount

## Single Reduction

### CNH-6060/5Y ▶ 612HY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |

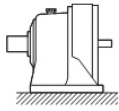
All dimensions are in inches

| Model CNH | A    | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | O1   | O     | P    | BW   |
|-----------|------|------|-------|-------|------|------|------|------|------|------|------|------|-------|------|------|
| 6060/5Y   | 5.67 | 3.31 | 5.71  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.61 |
| 6070/5Y   | 5.67 | 3.31 | 5.94  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.85 |
| 6080/5Y   | 5.67 | 3.90 | 7.05  | 3.543 | 2.36 | 0.47 | 2.95 | 0.47 | 0.51 | 0.35 | 1.46 | 6.18 | -     | 5.28 | 2.05 |
| 6090/5Y   | 7.09 | 5.31 | 7.95  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89 | -     | 5.91 | 2.36 |
| 6100/5Y   | 7.09 | 5.31 | 8.19  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | -    | 8.15  | 5.91 | 2.36 |
| 610HY     | 7.09 | 5.31 | 8.19  | 4.724 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.77 | -    | 8.94  | 5.91 | 2.36 |
| 6110/5Y   | 7.09 | 5.31 | 8.58  | 4.724 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.77 | -    | 9.29  | 6.38 | 2.76 |
| 6120/5Y   | 9.06 | 6.10 | 10.20 | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | -    | 10.12 | 8.03 | 3.23 |
| 612HY     | 9.06 | 6.10 | 10.20 | 5.512 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.36 | -    | 10.91 | 8.03 | 3.23 |

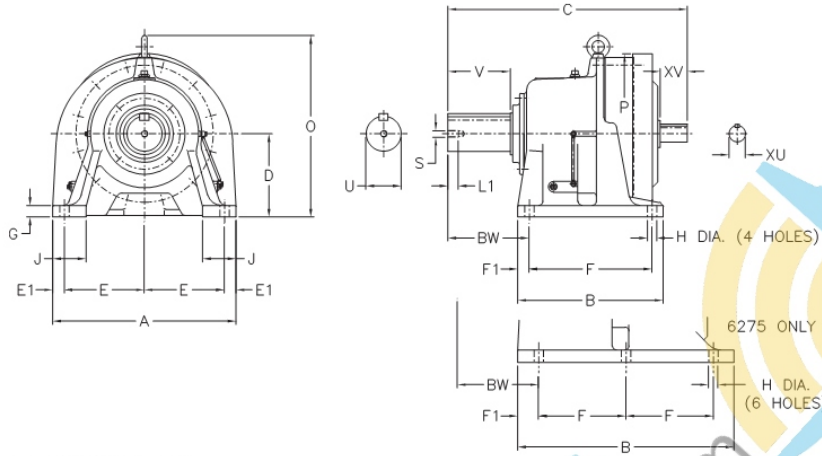
| Model CNH | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|-------------------|
|           | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |                   |
| 6060/5Y   | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 5.5               |
| 6070/5Y   | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 5.5               |
| 6080/5Y   | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 18                |
| 6090/5Y   | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 24                |
| 6100/5Y   | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 29                |
| 610HY     | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 31                |
| 6110/5Y   | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 33                |
| 6120/5Y   | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 53                |
| 612HY     | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 55                |

## 4.2 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Foot Mount

Single Reduction  
CHH-6130/5Y ▶ 6275Y

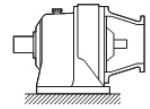
All dimensions are in inches

## \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

| Model CHH | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O     | P     | BW    |
|-----------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|-------|
| 6130/5Y   | 12.99 | 7.68  | 12.64 | 5.906  | 5.71  | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 3.94  |
| 6140/5Y   | 12.99 | 7.68  | 13.43 | 5.906  | 5.71  | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 4.72  |
| 614HY     | 12.99 | 7.68  | 13.43 | 6.299  | 5.71  | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.76 | 12.20 | 9.06  | 4.72  |
| 6160/5Y   | 16.14 | 9.37  | 16.26 | 6.299  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 14.45 | 12.52 | 5.47  |
| 616HY     | 16.14 | 9.37  | 16.26 | 7.874  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 3.15 | 16.02 | 12.52 | 5.47  |
| 6170/5Y   | 16.93 | 13.19 | 18.78 | 7.874  | 7.48  | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 16.89 | 14.25 | 4.92  |
| 6180/5Y   | 18.50 | 14.96 | 20.75 | 8.661  | 8.27  | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 18.39 | 15.35 | 5.71  |
| 6190/5Y   | 20.87 | 17.32 | 24.41 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 21.22 | 17.76 | 6.69  |
| 6205Y     | 20.87 | 17.32 | 26.69 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 18.54 | 8.46  |
| 6215Y     | 22.83 | 18.70 | 27.87 | 10.438 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.96 | 8.27  |
| 6225Y     | 24.41 | 20.47 | 29.61 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 21.61 | 9.06  |
| 6235Y     | 26.38 | 22.05 | 33.03 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 23.27 | 10.24 |
| 6245Y     | 28.35 | 22.83 | 34.53 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 25.08 | 10.35 |
| 6255Y     | 30.71 | 24.80 | 40.94 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 27.68 | 12.60 |
| 6265Y     | 34.65 | 27.56 | 45.28 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | 34.41 | 30.39 | 15.35 |
| 6275Y     | 45.67 | 40.94 | 57.56 | 21.260 | 20.67 | 2.17 | 16.54 | 3.94 | 2.36 | 1.77 | 7.87 | 45.71 | 38.82 | 19.09 |

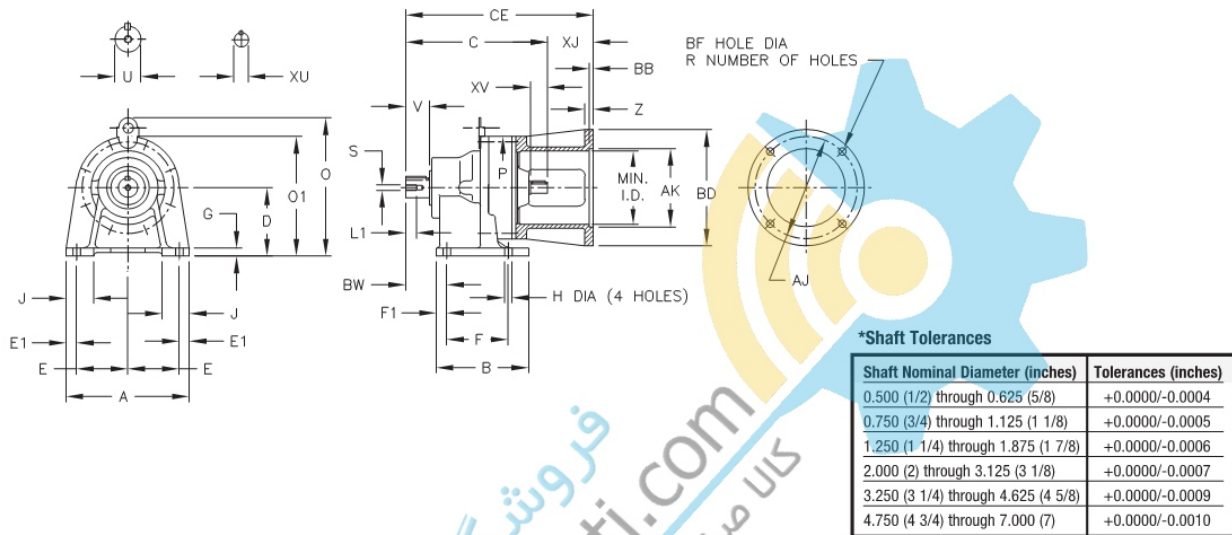
| Model CHH | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|-------------------|
|           | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |                   |
| 6130/5Y   | 1.875           | 2.76  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 95                |
| 6140/5Y   | 1.875           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 97                |
| 614HY     | 1.875           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 101               |
| 6160/5Y   | 2.250           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 185               |
| 616HY     | 2.250           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 196               |
| 6170/5Y   | 2.750           | 3.54  | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 276               |
| 6180/5Y   | 3.125           | 4.33  | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74     | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 359               |
| 6190/5Y   | 3.625           | 5.31  | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 529               |
| 6205Y     | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   | 562               |
| 6215Y     | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   | 741               |
| 6225Y     | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 1-1/4 X 6.5  | 2.125            | 3.23 | 1/2 X 1/2 X 3.23   | 902               |
| 6235Y     | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13   | 1109              |
| 6245Y     | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13   | 1354              |
| 6255Y     | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   | 2110              |
| 6265Y     | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   | 2624              |
| 6275Y     | 7.000           | 13.00 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 3.500            | 5.91 | 7/8 X 7/8 X 5.90   | 5424              |



# Dimensions Foot Mount, C-Face

## Single Reduction

### CNHJ-6060/5Y ▶ 6090/5Y



All dimensions are in inches

| Model<br>CNHJ | A    | B    | C    | D     | E    | E1   | F    | F1   | G    | H    | J    | O1   | O | P    | BW   |
|---------------|------|------|------|-------|------|------|------|------|------|------|------|------|---|------|------|
| 6060/5Y       | 5.67 | 3.31 | 5.71 | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | - | 4.33 | 1.61 |
| 6070/5Y       | 5.67 | 3.31 | 5.94 | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | - | 4.33 | 1.85 |
| 6080/5Y       | 5.67 | 3.90 | 7.05 | 3.543 | 2.36 | 0.47 | 2.95 | 0.47 | 0.51 | 0.35 | 1.46 | 6.18 | - | 5.28 | 2.05 |
| 6090/5Y       | 7.09 | 5.31 | 7.95 | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89 | - | 5.91 | 2.36 |

| Model<br>CNHJ | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    |
|---------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|
|               | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |
| 6060/5Y       | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6070/5Y       | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6080/5Y       | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6090/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |

| Model<br>CNHJ | Motor<br>Frame | AJ   | AK    | BD   | BB | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|----|------|---|-------|------|------|--------------|--------------------|
| 6060/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 7.49  | 1.78 | 0.47 | 2.44         | 9                  |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 7.87  | 2.16 | 0.47 | 2.44         | 9                  |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 8.27  | 2.56 | 0.47 | 3.15         | 11                 |
| 6070/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 7.72  | 1.78 | 0.47 | 2.44         | 9                  |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 8.10  | 2.16 | 0.47 | 2.44         | 9                  |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 8.50  | 2.56 | 0.47 | 3.15         | 11                 |
| 6080/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 8.79  | 1.74 | 0.39 | 2.48         | 22                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.17  | 2.12 | 0.39 | 2.48         | 22                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 9.63  | 2.58 | 0.47 | 3.07         | 23                 |
| 6090/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.73  | 1.78 | 0.47 | 2.44         | 29                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 10.11 | 2.16 | 0.47 | 2.44         | 30                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 10.58 | 2.63 | 0.47 | 4.21         | 32                 |

#### 4.4 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.





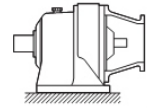
**Single Reduction**  
**CNHJ-6100/5Y ▶ 612HY**



## Speed Reducers

## Dimensions

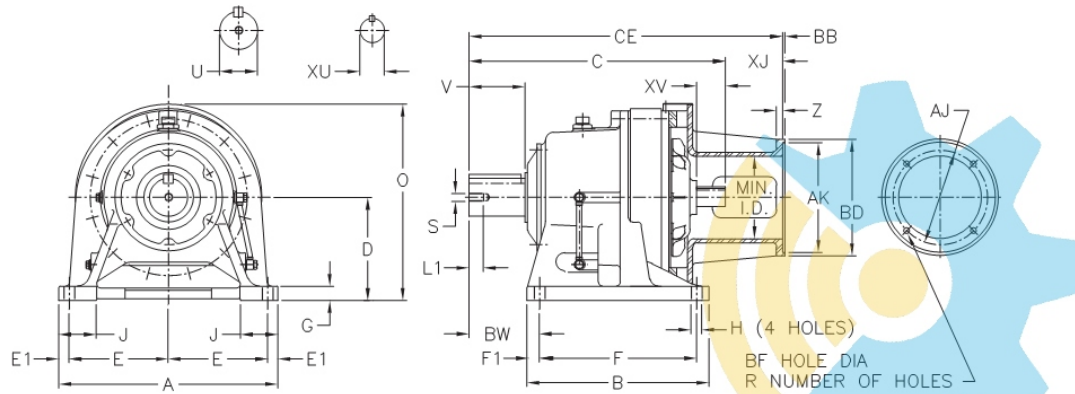
**Note:** [1] Please consult factory for CNHJ-6105-Motor Frame 182TC. Center height "D" for 6105 is less than half of "BD" dimension..



# Dimensions Foot Mount, C-Face

## Single Reduction

CHHJ-6130/5Y ▶ 6215Y



### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

Speed  
Reducers

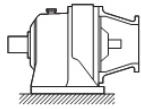
Dimensions

| Model<br>CHHJ | A     | B     | C     | D      | E    | E1   | F     | F1   | G    | H    | J    | O     | P     | BW   |
|---------------|-------|-------|-------|--------|------|------|-------|------|------|------|------|-------|-------|------|
| 6130/5Y       | 12.99 | 7.68  | 12.64 | 5.906  | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 3.94 |
| 6140/5Y       | 12.99 | 7.68  | 13.43 | 5.906  | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 4.72 |
| 614HY         | 12.99 | 7.68  | 13.43 | 6.299  | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.76 | 12.20 | 9.06  | 4.72 |
| 6160/5Y       | 16.14 | 9.37  | 16.26 | 6.299  | 7.28 | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 14.45 | 12.52 | 5.47 |
| 616HY         | 16.14 | 9.37  | 16.26 | 7.874  | 7.28 | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 3.15 | 16.02 | 12.52 | 5.47 |
| 6170/5Y       | 16.93 | 13.19 | 18.78 | 7.874  | 7.48 | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 16.89 | 14.25 | 4.92 |
| 6180/5Y       | 18.50 | 14.96 | 20.75 | 8.661  | 8.27 | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 16.39 | 15.35 | 5.71 |
| 6190/5Y       | 20.87 | 17.32 | 24.41 | 9.843  | 9.45 | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 21.22 | 17.76 | 6.69 |
| 6205Y         | 20.87 | 17.32 | 26.69 | 9.843  | 8.66 | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 18.54 | 8.46 |
| 6215Y         | 22.83 | 18.70 | 27.87 | 10.433 | 9.45 | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.96 | 8.27 |

| Model<br>CHHJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|---------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|               | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6130/5Y       | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y       | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 614HY         | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5Y       | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 616HY         | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y       | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y       | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y       | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205Y         | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |
| 6215Y         | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   |

## 4.6 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Foot Mount, C-Face

## Single Reduction CHHJ-6130/5Y ▶ 6215Y (cont.)

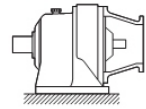
All dimensions are in inches

| Model<br>CHHJ | Motor<br>Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|-------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6130/5Y       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 15.26 | 2.63 | 0.47 | 4.21         | 107                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.01 | 3.37 | 0.47 | 5.43         | 111                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.64 | 4.00 | 1.10 | 5.43         | 118                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 17.57 | 4.93 | 0.57 | 5.08         | 119                |
| 6140/5Y       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 16.05 | 2.63 | 0.47 | 4.21         | 109                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.80 | 3.37 | 0.47 | 5.43         | 113                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 17.43 | 4.00 | 1.10 | 5.43         | 120                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 18.35 | 4.93 | 0.57 | 5.08         | 121                |
| 614HY         | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 16.05 | 2.63 | 0.47 | 4.21         | 114                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.80 | 3.37 | 0.47 | 5.43         | 117                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 17.43 | 4.00 | 1.10 | 5.43         | 125                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 18.35 | 4.93 | 0.57 | 5.08         | 126                |
| 6160/5Y       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 18.89 | 2.63 | 0.47 | 4.21         | 227                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 19.63 | 3.37 | 0.57 | 5.71         | 231                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 20.26 | 4.00 | 1.20 | 5.71         | 239                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 21.01 | 4.75 | 0.57 | 5.71         | 234                |
| 616HY         | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 18.89 | 2.63 | 0.47 | 4.21         | 238                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 19.63 | 3.37 | 0.57 | 5.71         | 242                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 20.26 | 4.00 | 1.20 | 5.71         | 250                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 21.01 | 4.75 | 0.57 | 5.71         | 245                |
| 6170/5Y       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 21.70 | 5.44 | 0.57 | 6.50         | 238                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 22.16 | 3.38 | 0.57 | 5.71         | 314                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 22.78 | 4.00 | 1.20 | 5.71         | 321                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 23.53 | 4.75 | 0.57 | 5.71         | 316                |
| 6180/5Y       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 24.22 | 5.44 | 0.57 | 7.87         | 327                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 24.78 | 6.00 | 0.57 | 7.87         | 347                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 24.25 | 3.50 | 0.57 | 5.71         | 407                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 24.75 | 4.00 | 1.07 | 5.71         | 413                |
| 6190/5Y       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 25.50 | 4.75 | 0.57 | 5.71         | 421                |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 26.19 | 5.44 | 0.57 | 7.87         | 416                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 27.25 | 6.50 | 0.57 | 7.87         | 420                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 28.54 | 4.13 | 1.29 | 5.71         | 599                |
| 6205Y         | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 29.16 | 4.75 | 0.57 | 5.71         | 592                |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 29.85 | 5.44 | 0.57 | 7.87         | 601                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 30.91 | 6.50 | 0.57 | 7.87         | 626                |
|               | 213TC~215TC    | 7.25  | 8.500  | 9.84  | 0.22 | 0.55 | 4 | 30.79 | 4.10 | 0.57 | 5.91         | 653                |
| 6215Y         | 254TC~256TC    | 7.25  | 8.500  | 9.84  | 0.22 | 0.55 | 4 | 31.43 | 4.73 | 0.57 | 5.91         | 653                |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 32.06 | 5.36 | 0.57 | 6.89         | 659                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 33.17 | 6.48 | 0.57 | 8.27         | 684                |
|               | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 33.92 | 7.22 | 0.57 | 8.27         | 682                |
| 6215Y         | 364TSC~365TSC  | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 31.79 | 5.10 | 0.57 | 8.27         | 675                |
|               | 254TC~256TC    | 7.25  | 8.500  | 9.84  | 0.22 | 0.55 | 4 | 32.63 | 4.75 | 0.57 | 5.91         | 850                |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 33.26 | 5.38 | 0.57 | 6.89         | 855                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 34.37 | 6.50 | 0.57 | 8.27         | 880                |
| 6215Y         | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.12 | 7.24 | 0.57 | 8.46         | 873                |
|               | 364TSC~365TSC  | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 32.99 | 5.12 | 0.57 | 8.46         | 869                |

Speed  
Reducers

Dimensions





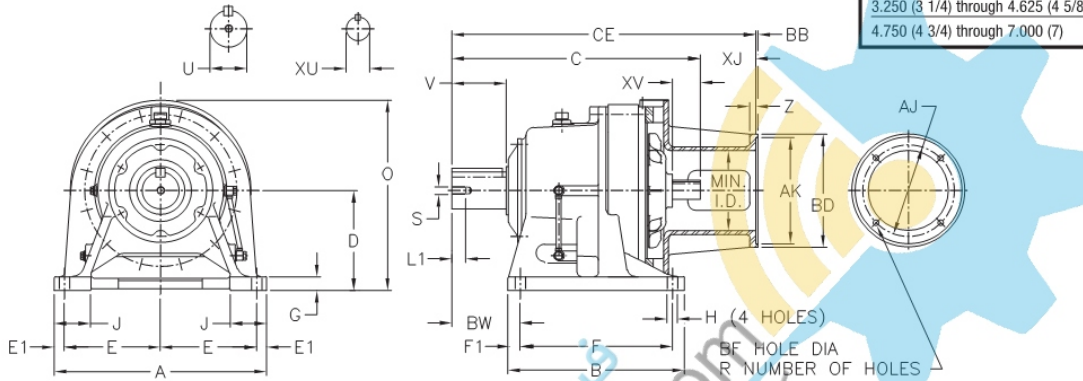
# Dimensions Foot Mount, C-Face

## Single Reduction

### CHHJ-6225Y ▶ 6265Y

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |



All dimensions are in inches

| Model<br>CHHJ | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O     | P     | BW    |
|---------------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|-------|
| 6225Y         | 24.41 | 20.47 | 29.61 | 11.024 | 10.63 | 1.57 | 16.64 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 21.61 | 9.06  |
| 6235Y         | 26.38 | 22.05 | 33.03 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 23.27 | 10.24 |
| 6245Y         | 28.35 | 22.83 | 34.53 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 25.08 | 10.35 |
| 6255Y         | 30.71 | 24.80 | 40.94 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 27.68 | 12.60 |
| 6265Y         | 34.65 | 27.56 | 45.28 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | 34.41 | 30.39 | 15.35 |

| Model CHHJ | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                  |
|------------|-----------------|-------|------------|------|----------------------|------------------|------|------------------|
|            | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key              |
| 6225Y      | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 2.125            | 3.23 | 1/2 X 1/2 X 3.23 |
| 6235Y      | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13 |
| 6245Y      | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13 |
| 6255Y      | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |
| 6265Y      | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |

| Model CHHJ | Motor Frame   | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|---------------|-------|--------|-------|------|------|---|-------|------|------|-----------|-----------------|
| 6225Y      | 254TC~256TC   | 7.25  | 8.500  | 11.10 | 0.22 | 0.55 | 4 | 34.37 | 4.76 | 0.57 | 5.51      | 1043            |
|            | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 35.00 | 5.39 | 0.57 | 6.30      | 1043            |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 36.11 | 6.50 | 0.57 | 8.46      | 1053            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 36.85 | 7.24 | 0.57 | 8.46      | 1056            |
|            | 364TSC~365TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 34.74 | 5.14 | 0.57 | 8.46      | 1048            |
|            | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 38.23 | 8.63 | 0.57 | 8.46      | 1063            |
| 6235Y      | 404TSC~405TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.24 | 5.63 | 0.57 | 8.46      | 1050            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 39.57 | 6.54 | 0.57 | 8.66      | 1281            |
| 6245Y      | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.69 | 8.66 | 0.57 | 8.46      | 1303            |
|            | 324TC~326TC   | 11.00 | 12.500 | 14.57 | 0.22 | 0.71 | 4 | 41.06 | 6.54 | 0.57 | 8.27      | 1599            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.77 | 7.24 | 0.57 | 8.46      | 1591            |
| 6255Y      | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 43.15 | 8.63 | 0.57 | 8.46      | 1585            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 48.20 | 7.25 | 0.57 | 9.45      | 2392            |
|            | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 49.57 | 8.63 | 0.57 | 9.45      | 2422            |
| 6265Y      | 364TC~365TC   | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 52.52 | 7.24 | 0.57 | 9.45      | 2971            |
|            | 404TC~405TC   | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 53.91 | 8.63 | 0.57 | 9.45      | 3002            |

#### 4.8 Dimensions

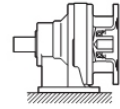
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

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Speed  
Reducers

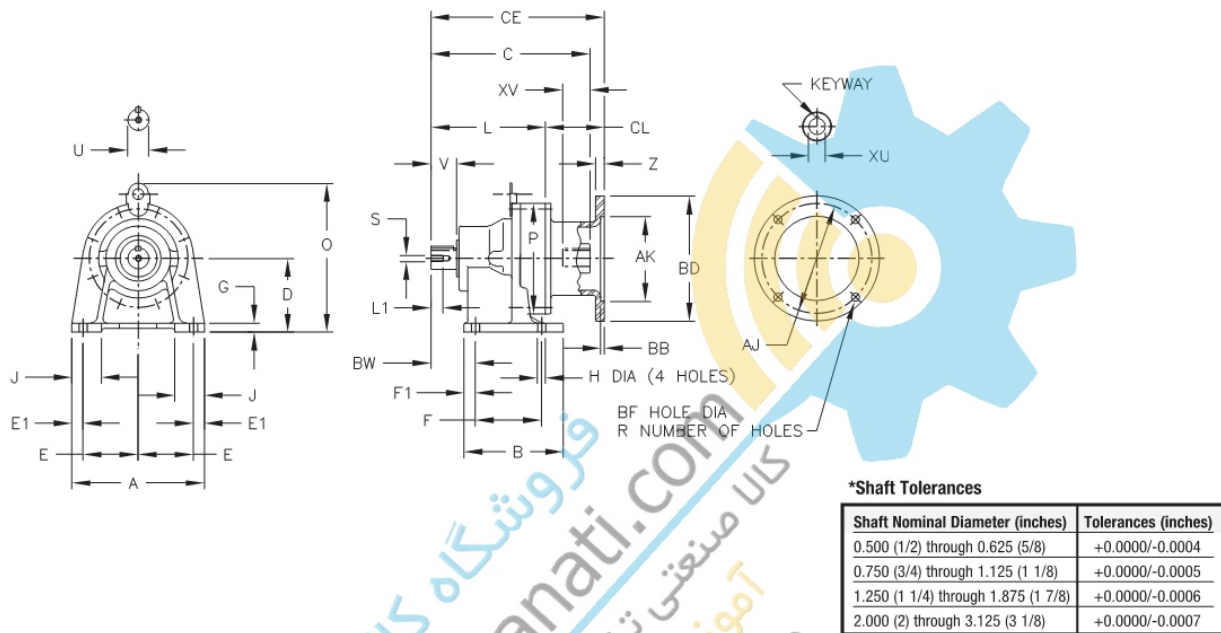
Dimensions



# Dimensions Foot Mount, Hollow Input

Single Reduction

CNHX-6065Y ▶ 6115Y



All dimensions are in inches

Speed  
Reducers

Dimensions

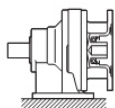
| Model<br>CNHX | A    | B    | L    | D     | E    | E1   | F    | F1   | G    | H    | J    | O    | P    | BW   |
|---------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|
| 6060/5Y       | 5.67 | 3.31 | 3.62 | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | 4.33 | 1.61 |
| 6070/5Y       | 5.67 | 3.31 | 3.86 | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | 4.33 | 1.85 |
| 6080/5Y       | 5.67 | 3.90 | 5.08 | 3.543 | 2.36 | 0.47 | 2.95 | 0.47 | 0.51 | 0.35 | 1.46 | 6.18 | 5.28 | 2.05 |
| 6090/5Y       | 7.09 | 5.31 | 5.59 | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89 | 5.91 | 2.36 |
| 6100/5Y       | 7.09 | 5.31 | 6.14 | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 8.15 | 5.91 | 2.36 |
| 610HY         | 7.09 | 5.31 | 6.14 | 4.724 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.77 | 8.94 | 5.91 | 2.36 |
| 6110/5Y       | 7.09 | 5.31 | 6.69 | 4.724 | 2.95 | 0.59 | 3.54 | 0.54 | 0.47 | 0.43 | 1.77 | 9.29 | 6.38 | 2.76 |

| Model<br>CNHX | Low Speed Shaft |      |            |      |                    |
|---------------|-----------------|------|------------|------|--------------------|
|               | U*              | V    | S          | L1   | Key                |
| 6060/5Y       | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X .79    |
| 6070/5Y       | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 |
| 6080/5Y       | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 |
| 6090/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   |
| 6100/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   |
| 610HY         | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   |
| 6110/5Y       | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   |

## 4.10 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified.  
Certified prints are available after receipt of an order; consult factory.





## CYCLO® 6000 Speed Reducers

# Dimensions Foot Mount, Hollow Input

## Single Reduction CNHX-6065Y ▶ 6115Y (cont.)

All dimensions are in inches

| Model<br>CNHX | Motor<br>Frame | AJ   | AK   | BD                  | BB   | BF   | R | CE    | CL   | C    | Z    | XU                          | High Speed Shaft<br>XV | Keyway      | Approx<br>Wt. (lb) |
|---------------|----------------|------|------|---------------------|------|------|---|-------|------|------|------|-----------------------------|------------------------|-------------|--------------------|
| 6060/5Y       | 56C            | 5.88 | 4.50 | 6.69 <sup>[1]</sup> | 0.20 | 0.43 | 4 | 6.61  | 2.99 | 5.59 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 10                 |
| 6070/5Y       | 56C            | 5.88 | 4.50 | 6.69 <sup>[1]</sup> | 0.20 | 0.43 | 4 | 6.85  | 2.99 | 5.83 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 10                 |
| 6080/5Y       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 8.19  | 3.11 | 7.54 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.56                   | 3/16 x 3/32 | 23                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 8.19  | 3.11 | 7.54 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.56                   | 3/16 x 3/32 | 23                 |
| 6090/5Y       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 8.94  | 3.35 | 8.31 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 29                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 8.94  | 3.35 | 8.31 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57                   | 3/16 x 3/32 | 29                 |
| 6100/5Y       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.23 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 33                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.70 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65                   | 3/16 x 3/32 | 33                 |
| 610HY         | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.23 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 35                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.70 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65                   | 3/16 x 3/32 | 35                 |
| 6110/5Y       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.96  | 3.27 | 9.31 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.56                   | 3/16 x 3/32 | 38                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 9.96  | 3.27 | 9.31 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.56                   | 3/16 x 3/32 | 38                 |
|               | 182TC-184TC    | 7.25 | 8.50 | 8.98                | 0.22 | 0.59 | 4 | 10.71 | 4.02 | 9.61 | 0.69 | 1.125<br>+0.0008<br>-0.0000 | 1.85                   | 1/4 x 1/8   | 44                 |

Speed  
Reducers

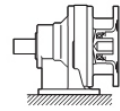
Dimensions

Note: [1] Center height "D" for 6065Y and 6075Y is less than the radius of motor flange diameter "BD" (frame 56C).

Sumitomo Drive Technologies Cyclo® 6000 Series

Dimensions shown are for reference only and are subject to change without notice, unless certified.  
Certified prints are available after receipt of an order; consult factory.

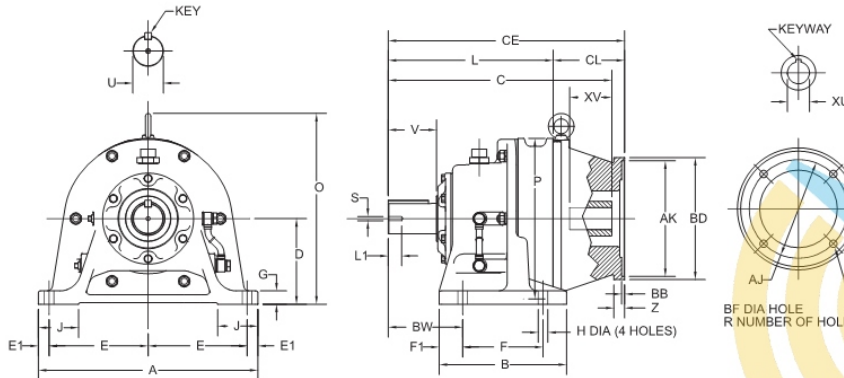
Dimensions 4.11



# Dimensions Foot Mount, Hollow Input

## Single Reduction

### CNHX-6120Y ▶ 616HY



All dimensions are in inches

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |

| Model CNHX | A     | B    | L     | D     | E    | E1   | F    | F1   | G    | H    | J    | O     | P     | BW   |
|------------|-------|------|-------|-------|------|------|------|------|------|------|------|-------|-------|------|
| 6120/5Y    | 9.06  | 6.10 | 7.32  | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | 10.12 | 8.03  | 3.23 |
| 612HY      | 9.06  | 6.10 | 7.32  | 5.512 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.36 | 10.91 | 8.03  | 3.23 |
| 6130/5Y    | 12.99 | 7.68 | 9.43  | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 3.94 |
| 6140/5Y    | 12.99 | 7.68 | 10.21 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 4.72 |
| 614HY      | 12.99 | 7.68 | 10.21 | 6.299 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.76 | 12.20 | 9.06  | 4.72 |
| 6160/5Y    | 16.14 | 9.37 | 12.12 | 6.299 | 7.28 | 0.79 | 5.91 | 1.73 | 0.98 | 0.71 | 2.95 | 14.45 | 11.81 | 5.47 |
| 616HY      | 16.14 | 9.37 | 12.12 | 7.874 | 7.28 | 0.79 | 5.91 | 1.73 | 0.98 | 0.71 | 3.15 | 16.02 | 11.81 | 5.47 |

| Model CNHX | Low Speed Shaft |      |            |      |                  |
|------------|-----------------|------|------------|------|------------------|
|            | U*              | V    | S          | L1   | Key              |
| 6120/5Y    | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 |
| 612HY      | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 |
| 6130/5Y    | 1.875           | 2.76 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16 |
| 6140/5Y    | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 |
| 614HY      | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 |
| 6160/5Y    | 2.250           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 |
| 616HY      | 2.250           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 |

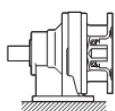
| Model CNHX | Motor Frame | AJ   | AK   | BD   | BB   | BF   | R | CE    | CL   | C     | Z    | High Speed Shaft            |      |             | Approx Wt. (lb) |
|------------|-------------|------|------|------|------|------|---|-------|------|-------|------|-----------------------------|------|-------------|-----------------|
|            |             |      |      |      |      |      |   |       |      |       |      | XU                          | XV   | Keyway      |                 |
| 6120/5Y    | 56C         | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.25 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 61              |
|            | 143TC-145TC | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.43 | 0.47 | 0.875<br>+0.0016<br>+0.0008 | 1.50 | 3/16 x 3/32 | 61              |
|            | 182TC-184TC | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.55 | 0.67 | 1.125<br>+0.0016<br>+0.0008 | 2.48 | 1/4 x 1/8   | 64              |
|            | 213TC-215TC | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.65 | 0.67 | 1.375<br>+0.0020<br>+0.0010 | 2.64 | 5/16 x 5/32 | 64              |
| 612HY      | 56C         | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.25 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 63              |
|            | 143TC-145TC | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.43 | 0.47 | 0.875<br>+0.0016<br>+0.0008 | 1.50 | 3/16 x 3/32 | 63              |
|            | 182TC-184TC | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.55 | 0.67 | 1.125<br>+0.0016<br>+0.0008 | 2.48 | 1/4 x 1/8   | 66              |
|            | 213TC-215TC | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.65 | 0.67 | 1.375<br>+0.0020<br>+0.0010 | 2.64 | 5/16 x 5/32 | 66              |

Note: [1] Center height "D" for 6065Y and 6075Y is less than the radius of motor flange diameter "BD" (frame 56C).

#### 4.12 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



# Dimensions Foot Mount, Hollow Input

## Single Reduction CNHX-6120Y ▶ 616HY (cont.)

All dimensions are in inches

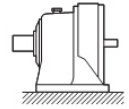
| Model<br>CNHX | Motor<br>Frame | AJ   | AK   | BD   | BB   | BF   | R | CE    | CL   | C     | Z    | XU                          | High Speed Shaft<br>XV | Keyway      | Approx<br>Wt. (lb) |
|---------------|----------------|------|------|------|------|------|---|-------|------|-------|------|-----------------------------|------------------------|-------------|--------------------|
| 6130/5Y       | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 13.51 | 4.06 | 12.96 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.61                   | 3/16 x 3/32 | 104                |
|               | 182TC-184TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 15.42 | 5.96 | 14.42 | 0.67 | 1.125<br>+0.0016<br>+0.0008 | 1.91                   | 1/4 x 1/8   | 112                |
|               | 213TC-215TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 15.42 | 5.96 | 14.06 | 0.67 | 1.375<br>+0.0020<br>+0.0010 | 2.68                   | 5/16 x 5/32 | 111                |
|               | 254TC-256TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 15.42 | 5.96 | 14.38 | 0.67 | 1.625<br>+0.0020<br>+0.0010 | 2.99                   | 3/8 x 3/16  | 112                |
| 6140/5Y       | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 14.30 | 4.06 | 13.75 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.61                   | 3/16 x 3/32 | 106                |
|               | 182TC-184TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 15.20 | 0.67 | 1.125<br>+0.0016<br>+0.0008 | 1.91                   | 1/4 x 1/8   | 114                |
|               | 213TC-215TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 14.85 | 0.67 | 1.375<br>+0.0020<br>+0.0010 | 2.68                   | 5/16 x 5/32 | 113                |
|               | 254TC-256TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 15.16 | 0.67 | 1.625<br>+0.0020<br>+0.0010 | 2.99                   | 3/8 x 3/16  | 114                |
| 614HY         | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 14.30 | 4.06 | 13.75 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.61                   | 3/16 x 3/32 | 110                |
|               | 182TC-184TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 15.20 | 0.67 | 1.125<br>+0.0016<br>+0.0008 | 1.91                   | 1/4 x 1/8   | 118                |
|               | 213TC-215TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 14.85 | 0.67 | 1.375<br>+0.0020<br>+0.0010 | 2.68                   | 5/16 x 5/32 | 117                |
|               | 254TC-256TC    | 7.25 | 8.50 | 9.00 | 0.22 | 0.55 | 4 | 16.21 | 5.96 | 15.16 | 0.67 | 1.625<br>+0.0020<br>+0.0010 | 2.99                   | 3/8 x 3/16  | 118                |
| 6160/5Y       | 182TC-184TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.28 | 16.45 | 0.79 | 1.125<br>+0.0016<br>+0.0008 | 2.01                   | 1/4 x 1/8   | 191                |
|               | 213TC-215TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.26 | 16.45 | 0.79 | 1.375<br>+0.0020<br>+0.0010 | 2.48                   | 5/16 x 5/32 | 194                |
|               | 254TC-256TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.26 | 16.45 | 0.79 | 1.625<br>+0.0020<br>+0.0010 | 3.11                   | 3/8 x 3/16  | 193                |
| 616HY         | 182TC-184TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.28 | 16.45 | 0.79 | 1.125<br>+0.0016<br>+0.0008 | 2.01                   | 1/4 x 1/8   | 202                |
|               | 213TC-215TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.26 | 16.45 | 0.79 | 1.375<br>+0.0020<br>+0.0010 | 2.48                   | 5/16 x 5/32 | 205                |
|               | 254TC-256TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 17.38 | 5.26 | 16.45 | 0.79 | 1.625<br>+0.0020<br>+0.0010 | 3.11                   | 3/8 x 3/16  | 204                |

Speed  
Reducers

Dimensions

Note: [1] Center height "D" for 6065Y and 6075Y is less than the radius of motor flange diameter "BD" (frame 56C).

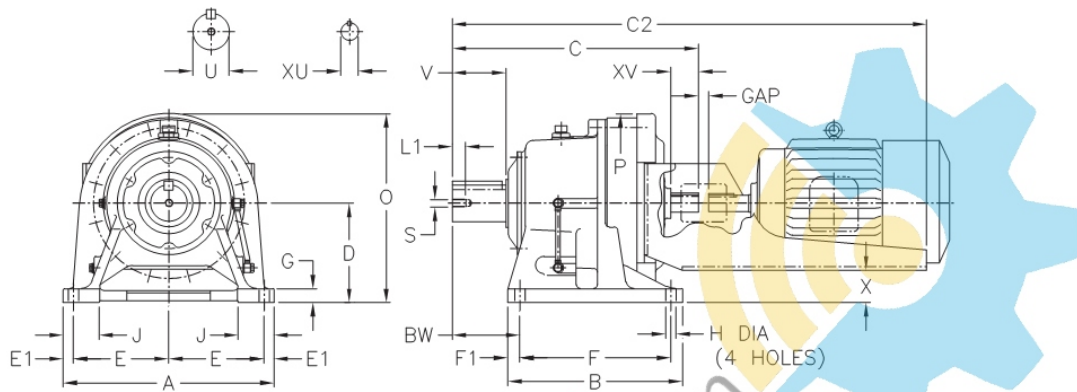




# Dimensions Foot Mount, Shovel Base

## Single Reduction

### CNH-6120/5Y ▶ CHH-6190/5Y-SB



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

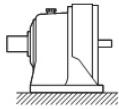
All dimensions are in inches

| Model<br>CNH, CHH | A     | B     | C     | D     | E    | E1   | F     | F1   | G    | H    | J    | O     | P     | BW   |
|-------------------|-------|-------|-------|-------|------|------|-------|------|------|------|------|-------|-------|------|
| 6120/5Y-SB        | 9.06  | 6.10  | 10.20 | 4.724 | 3.74 | 0.79 | 4.53  | 0.79 | 0.59 | 0.55 | 2.17 | 10.12 | 8.03  | 3.23 |
| 612HY-SB          | 9.06  | 6.10  | 10.20 | 5.512 | 3.74 | 0.79 | 4.53  | 0.79 | 0.59 | 0.55 | 2.36 | 10.91 | 8.03  | 3.23 |
| 6130/5Y-SB        | 12.99 | 7.68  | 12.64 | 5.906 | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 3.94 |
| 6140/5Y-SB        | 12.99 | 7.68  | 13.43 | 5.906 | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06  | 4.72 |
| 614HY-SB          | 12.99 | 7.68  | 13.43 | 6.299 | 5.71 | 0.79 | 5.71  | 0.98 | 0.87 | 0.71 | 2.76 | 12.20 | 9.06  | 4.72 |
| 6160/5Y-SB        | 16.14 | 9.37  | 16.26 | 6.299 | 7.28 | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 14.45 | 12.52 | 5.47 |
| 616HY-SB          | 16.14 | 9.37  | 16.26 | 7.874 | 7.28 | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 3.15 | 16.02 | 12.52 | 5.47 |
| 6170/5Y-SB        | 16.93 | 13.19 | 18.78 | 7.874 | 7.48 | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 16.89 | 14.25 | 4.92 |
| 6180/5Y-SB        | 18.50 | 14.96 | 20.75 | 8.661 | 8.27 | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 18.39 | 15.35 | 5.71 |
| 6190/5Y-SB        | 20.87 | 17.32 | 24.41 | 9.843 | 9.45 | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 21.22 | 17.76 | 6.69 |

| Model<br>CNH, CHH | Low Speed Shaft |      |            |      |                  | High Speed Shaft |      |                    |
|-------------------|-----------------|------|------------|------|------------------|------------------|------|--------------------|
|                   | U*              | V    | S          | L1   | Key              | XU*              | XV   | Key                |
| 6120/5Y-SB        | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 612HY-SB          | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6130/5Y-SB        | 1.875           | 2.76 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y-SB        | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 614HY-SB          | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5Y-SB        | 2.250           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 616HY-SB          | 2.250           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y-SB        | 2.750           | 3.54 | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y-SB        | 3.125           | 4.33 | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74 | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y-SB        | 3.625           | 5.31 | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |

#### 4.14 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



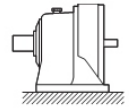
# Dimensions Foot Mount, Shovel Base

Single Reduction  
CNH-6120/5Y ▶ CHH-6190/5Y-SB (cont.)

All dimensions are in inches

| Model      | Dimensions            | 143T  | 145T | 182T  | 184T | 213T  | 215T | 254T  | 256T | 284T  | 286T | 324T  | 326T | 364T | 365T |
|------------|-----------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| 6120/5Y-SB | C2                    | 24.25 |      | 24.25 |      | 28.74 |      |       |      |       |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      |       |      |       |      |       |      |      |      |
|            | X <sup>[1]</sup>      | -0.18 |      | -0.18 |      | -0.97 |      |       |      |       |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 85    |      | 83    |      | 99    |      |       |      |       |      |       |      |      |      |
| 612HY-SB   | C2                    | 24.25 |      | 24.25 |      | 28.74 |      |       |      |       |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      |       |      |       |      |       |      |      |      |
|            | X <sup>[1]</sup>      | 0.61  |      | 0.61  |      | -0.18 |      |       |      |       |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 87    |      | 85    |      | 101   |      |       |      |       |      |       |      |      |      |
| 6130/5Y-SB | C2                    | 30.83 |      | 30.83 |      | 30.83 |      | 34.84 |      |       |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | X <sup>[1]</sup>      | 0.22  |      | 0.22  |      | 0.22  |      | -0.77 |      |       |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 125   |      | 125   |      | 135   |      | 135   |      |       |      |       |      |      |      |
| 6140/5Y-SB | C2                    | 31.61 |      | 31.61 |      | 31.61 |      | 35.63 |      |       |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | X <sup>[1]</sup>      | 0.22  |      | 0.22  |      | 0.22  |      | -0.77 |      |       |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 173   |      | 148   |      | 145   |      | 156   |      |       |      |       |      |      |      |
| 614HY-SB   | C2                    | 31.61 |      | 31.61 |      | 31.61 |      | 35.63 |      |       |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | X <sup>[1]</sup>      | 0.61  |      | 0.61  |      | 0.61  |      | -0.38 |      |       |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 178   |      | 152   |      | 149   |      | 161   |      |       |      |       |      |      |      |
| 6160/5Y-SB | C2                    | 32.68 |      | 32.68 |      | 37.68 |      | 37.68 |      | 40.87 |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      | 1.00  |      | 1.00  |      |       |      |      |      |
|            | X <sup>[1]</sup>      | 1.36  |      | 1.36  |      | -0.38 |      | -0.38 |      | -1.25 |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 231   |      | 229   |      | 250   |      | 245   |      | 287   |      |       |      |      |      |
| 616HY-SB   | C2                    | 32.68 |      | 32.68 |      | 37.68 |      | 37.68 |      | 40.87 |      |       |      |      |      |
|            | GAP                   | 0.52  |      | 0.71  |      | 0.88  |      | 1.00  |      | 1.00  |      |       |      |      |      |
|            | X                     | 2.93  |      | 2.93  |      | 1.20  |      | 1.20  |      | 0.33  |      |       |      |      |      |
|            | Weight w/o Motor (lb) | 242   |      | 240   |      | 261   |      | 256   |      | 298   |      |       |      |      |      |
| 6170/5Y-SB | C2                    | 34.41 |      | 34.41 |      | 37.83 |      | 43.43 |      | 43.43 |      | 46.14 |      |      |      |
|            | GAP                   | 0.71  |      | 0.71  |      | 0.88  |      | 1.00  |      | 1.00  |      | 1.50  |      |      |      |
|            | X <sup>[1]</sup>      | 2.93  |      | 2.93  |      | 2.18  |      | 0.33  |      | 0.33  |      | -0.70 |      |      |      |
|            | Weight w/o Motor (lb) | 320   |      | 318   |      | 326   |      | 390   |      | 382   |      | 401   |      |      |      |
| 6180/5Y-SB | C2                    |       |      | 40.04 |      | 40.04 |      | 46.02 |      | 46.02 |      | 50.04 |      |      |      |
|            | GAP                   |       |      | 0.88  |      | 0.88  |      | 1.00  |      | 1.00  |      | 1.50  |      |      |      |
|            | X                     |       |      | 2.97  |      | 2.97  |      | 1.11  |      | 1.11  |      | 0.09  |      |      |      |
|            | Weight w/o Motor (lb) |       |      | 434   |      | 431   |      | 484   |      | 476   |      | 499   |      |      |      |
| 6190/5Y-SB | C2                    |       |      |       |      | 47.01 |      | 47.01 |      | 52.09 |      | 52.09 |      |      |      |
|            | GAP                   |       |      |       |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |      |      |
|            | X                     |       |      |       |      | 3.17  |      | 3.17  |      | 1.27  |      | 1.27  |      |      |      |
|            | Weight w/o Motor (lb) |       |      |       |      | 635   |      | 630   |      | 689   |      | 679   |      |      |      |

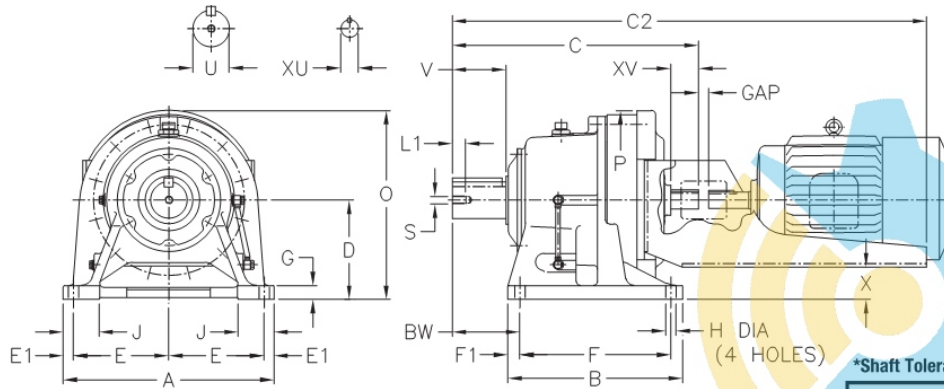
Note: [1] Negative number for dimension "X" indicates the shovel base is below the mounting surface of the Cyclo®.



# Dimensions Foot Mount, Shovel Base

## Single Reduction

### CHH-6205Y-SB ▶ 6235Y-SB (cont.)



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CHH | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O     | P     | BW    |
|-----------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|-------|
| 6205Y-SB  | 20.87 | 17.32 | 26.69 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 18.54 | 8.46  |
| 6215Y-SB  | 22.83 | 18.70 | 27.87 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.96 | 8.27  |
| 6225Y-SB  | 24.41 | 20.47 | 29.61 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 21.61 | 9.06  |
| 6235Y-SB  | 26.38 | 22.05 | 33.03 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 23.27 | 10.24 |

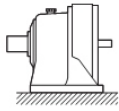
| Model CHH | Low Speed Shaft |      |           |      |                    | High Speed Shaft |      |                  |
|-----------|-----------------|------|-----------|------|--------------------|------------------|------|------------------|
|           | U*              | V    | S         | L1   | Key                | XU*              | XV   | Key              |
| 6205Y-SB  | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 1.750            | 3.23 | 3/8 X 3/8 X 3.23 |
| 6215Y-SB  | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 1.875            | 3.23 | 1/2 X 1/2 X 3.23 |
| 6225Y-SB  | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.5  | 2.125            | 3.23 | 1/2 X 1/2 X 3.23 |
| 6235Y-SB  | 5.000           | 7.87 | 1-8UNC    | 1.61 | 1-1/4 X 7/8 X 7.87 | 2.250            | 4.13 | 1/2 X 1/2 X 4.13 |

| Model | Dimensions            | 143T | 145T | 182T | 184T | 213T  | 215T | 254T  | 256T | 284T  | 286T | 324T  | 326T | 364T  | 365T |
|-------|-----------------------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 6205Y | C2                    |      |      |      |      | 47.81 |      | 47.81 |      | 53.88 |      | 53.88 |      | 54.82 |      |
|       | GAP                   |      |      |      |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|       | X                     |      |      |      |      | 3.17  |      | 3.17  |      | 1.27  |      | 1.27  |      | 0.29  |      |
|       | Weight w/o Motor (lb) |      |      |      |      | 644   |      | 639   |      | 707   |      | 697   |      | 714   |      |
| 6215Y | C2                    |      |      |      |      | 45.43 |      | 51.81 |      | 51.81 |      | 54.88 |      | 56.81 |      |
|       | GAP                   |      |      |      |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|       | X                     |      |      |      |      | 4.74  |      | 2.89  |      | 2.89  |      | 1.86  |      | 0.88  |      |
|       | Weight w/o Motor (lb) |      |      |      |      | 812   |      | 870   |      | 862   |      | 881   |      | 900   |      |
| 6225Y | C2                    |      |      |      |      |       |      | 51.42 |      | 56.50 |      | 56.50 |      | 59.41 |      |
|       | GAP                   |      |      |      |      |       |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|       | X                     |      |      |      |      |       |      | 4.27  |      | 2.45  |      | 2.45  |      | 1.47  |      |
|       | Weight w/o Motor (lb) |      |      |      |      |       |      | 1024  |      | 1060  |      | 1050  |      | 1065  |      |
| 6235Y | C2                    |      |      |      |      |       |      |       |      | 59.88 |      | 59.88 |      | 61.85 |      |
|       | GAP                   |      |      |      |      |       |      |       |      | 1.00  |      | 1.50  |      | 1.63  |      |
|       | X                     |      |      |      |      |       |      |       |      | 3.24  |      | 3.24  |      | 2.26  |      |
|       | Weight w/o Motor (lb) |      |      |      |      |       |      |       |      | 1278  |      | 1268  |      | 1280  |      |

#### 4.16 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

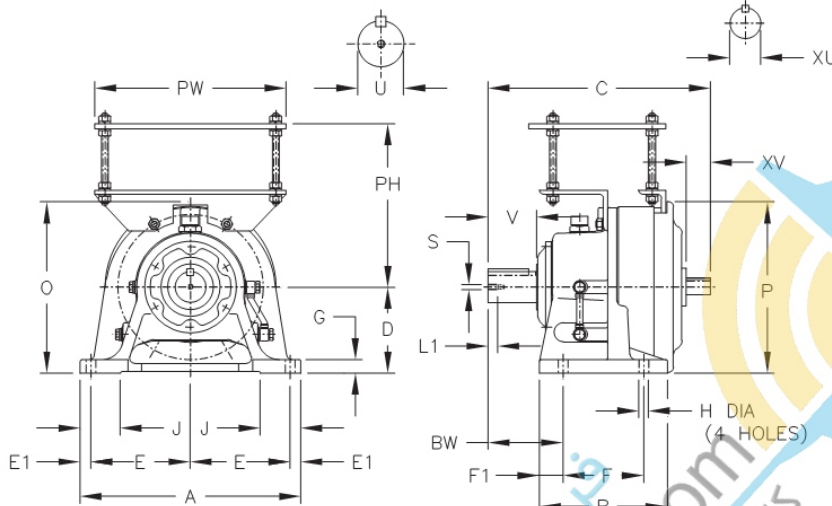




# Dimensions Foot Mount, Top Mount

## Single Reduction

CNHP-6110/5Y ▶ 612HY, CHHP-6130/5Y ▶ 614HY



### \*Shaft Tolerances

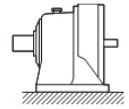
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CNHP, CHHP | A     | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | P    | BW   |
|---------------------|-------|------|-------|-------|------|------|------|------|------|------|------|------|------|
| 6110/5Y             | 7.09  | 5.31 | 8.58  | 4.724 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.77 | 6.38 | 2.76 |
| 6120/5Y             | 9.06  | 6.10 | 10.20 | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | 8.03 | 3.23 |
| 612HY               | 9.06  | 6.10 | 10.20 | 5.512 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.36 | 8.03 | 3.23 |
| 6130/5Y             | 12.99 | 7.68 | 12.64 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 9.06 | 3.94 |
| 6140/5Y             | 12.99 | 7.68 | 13.43 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 9.06 | 4.72 |
| 614HY               | 12.99 | 7.68 | 13.43 | 6.299 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.76 | 9.06 | 4.72 |

| Model<br>CNHP, CHHP | Low Speed Shaft |      |            |      | High Speed Shaft |       |      |                    |
|---------------------|-----------------|------|------------|------|------------------|-------|------|--------------------|
|                     | U*              | V    | S          | L1   | Key              | XU*   | XV   | Key                |
| 6110/5Y             | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46 | 0.625 | 0.98 | 3/16 X 3/16 X 0.75 |
| 6120/5Y             | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 | 0.750 | 1.38 | 3/16 X 3/16 X 1.02 |
| 612HY               | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 | 0.750 | 1.38 | 3/16 X 3/16 X 1.02 |
| 6130/5Y             | 1.875           | 2.76 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16 | 0.875 | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y             | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 0.875 | 1.57 | 3/16 X 3/16 X 1.38 |
| 614HY               | 1.875           | 3.54 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 0.875 | 1.57 | 3/16 X 3/16 X 1.38 |

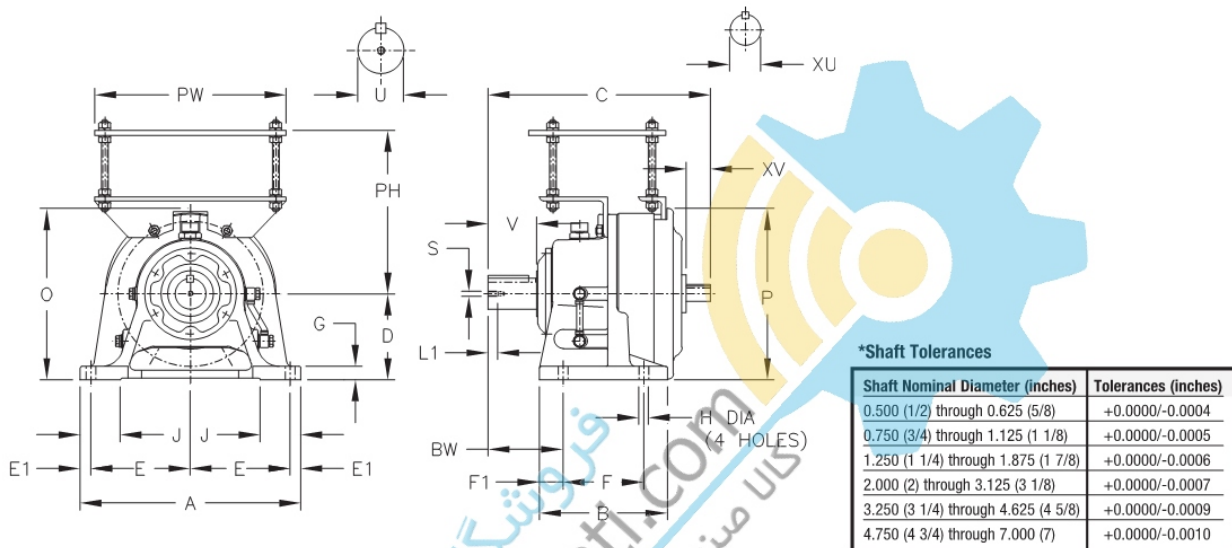
| Model                       | Dimensions            | 56 | 143T | 145T | 182T                             | 184T | 213T                                     | 215T | 254T | 256T | 284T | 286T | 324T | 326T | 364T | 365T | 404T | 405T | 444T | 445T | 447T |
|-----------------------------|-----------------------|----|------|------|----------------------------------|------|------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 6110/5Y<br>6120/5Y<br>612HY | PH MIN                |    |      |      | 7.08                             |      | 7.08                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | MAX                   |    |      |      | 9.53                             |      | 9.53                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | PW                    |    |      |      | 12.01                            |      | 14.96                                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | Weight w/o Motor (lb) |    |      |      | 67(6110/5), 91(6120/5), 93(612H) |      | 75 (6110/5)<br>99 (6120/5)<br>101 (612H) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6130/5Y                     | PH MIN                |    |      |      | 7.59                             |      | 7.59                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | MAX                   |    |      |      | 9.91                             |      | 9.91                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | PW                    |    |      |      | 14.96                            |      | 17.01                                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | Weight w/o Motor (lb) |    |      |      | 141                              |      | 154                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6140/5Y<br>614HY            | PH MIN                |    |      |      | 7.59                             |      | 7.59                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | MAX                   |    |      |      | 9.91                             |      | 9.91                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | PW                    |    |      |      | 14.96                            |      | 17.01                                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | Weight w/o Motor (lb) |    |      |      | 143(6140/5), 147(614H)           |      | 156 (6140/5)<br>160 (614H)               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |



# Dimensions Foot Mount, Top Mount

## Single Reduction

### CHHP-6160/5Y ▶ 6275Y



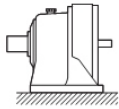
All dimensions are in inches

| Model<br>CHHP | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | P     | BW    |
|---------------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|
| 6160/5Y       | 16.14 | 9.37  | 16.26 | 6.299  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 12.52 | 5.47  |
| 616HY         | 16.14 | 9.37  | 16.26 | 7.874  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 3.15 | 12.52 | 5.47  |
| 6170/5Y       | 16.93 | 13.19 | 18.78 | 7.874  | 7.48  | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 14.25 | 4.92  |
| 6180/5Y       | 18.50 | 14.96 | 20.75 | 8.661  | 8.27  | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 15.35 | 5.71  |
| 6190/5Y       | 20.87 | 17.32 | 24.41 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 17.76 | 6.69  |
| 6205Y         | 20.87 | 17.32 | 26.69 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 18.54 | 8.46  |
| 6215Y         | 22.83 | 18.70 | 27.87 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 19.96 | 8.27  |
| 6225Y         | 24.41 | 20.47 | 29.61 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 21.61 | 9.06  |
| 6235Y         | 26.38 | 22.05 | 33.03 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 23.27 | 10.24 |
| 6245Y         | 28.35 | 22.83 | 34.53 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 25.08 | 10.35 |
| 6255Y         | 30.71 | 24.80 | 40.94 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 27.68 | 12.60 |
| 6265Y         | 34.65 | 27.56 | 45.28 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | 30.39 | 15.35 |
| 6275Y         | 45.67 | 40.94 | 57.56 | 21.260 | 20.67 | 2.17 | 16.54 | 3.94 | 2.36 | 1.77 | 7.87 | 38.82 | 19.09 |

| Model<br>CHHP | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    |
|---------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|
|               | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |
| 6160/5Y       | 2.250           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 616HY         | 2.250           | 3.54  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y       | 2.750           | 3.54  | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y       | 3.125           | 4.33  | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74     | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y       | 3.625           | 5.31  | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205Y         | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |
| 6215Y         | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6225Y         | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 2.125            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6235Y         | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13   |
| 6245Y         | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13   |
| 6255Y         | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   |
| 6265Y         | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   |
| 6275Y         | 7.000           | 13.00 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 3.500            | 5.91 | 7/8 X 7/8 X 5.90   |

#### 4.18 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Foot Mount, Top Mount

## Single Reduction CHHP-6160/5Y ▶ 6275Y (cont.)

All dimensions are in inches

| Model            | Dimensions            | 56 | 143T | 145T | 182T                     | 184T | 213T  | 215T  | 254T                       | 256T | 284T                       | 286T | 324T  | 326T | 364T | 365T | 404T  | 405T | 444T  | 445T  | 447T |
|------------------|-----------------------|----|------|------|--------------------------|------|-------|-------|----------------------------|------|----------------------------|------|-------|------|------|------|-------|------|-------|-------|------|
| 6160/5Y<br>616HY | PH MIN                |    |      |      | 9.16                     |      |       |       | 9.29                       |      | 9.29                       |      |       |      |      |      |       |      |       |       |      |
|                  | MAX                   |    |      |      | 12.17                    |      |       |       | 12.17                      |      | 12.11                      |      |       |      |      |      |       |      |       |       |      |
|                  | PW                    |    |      |      | 14.02                    |      |       |       | 17.01                      |      | 18.03                      |      |       |      |      |      |       |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      | 223 (6160/5), 234 (616H) |      |       |       | 244 (6160/5)<br>255 (616H) |      | 262 (6160/5)<br>273 (616H) |      |       |      |      |      |       |      |       |       |      |
| 6170/5Y          | PH MIN                |    |      |      | 10.20                    |      |       |       | 10.20                      |      | 10.20                      |      |       |      |      |      |       |      |       |       |      |
|                  | MAX                   |    |      |      | 13.08                    |      |       |       | 13.02                      |      | 13.08                      |      |       |      |      |      |       |      |       |       |      |
|                  | PW                    |    |      |      | 17.01                    |      |       |       | 17.01                      |      | 18.50                      |      |       |      |      |      |       |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      | 325                      |      |       |       | 339                        |      | 346                        |      |       |      |      |      |       |      |       |       |      |
| 6180/5Y          | PH MIN                |    |      |      |                          |      | 10.71 |       |                            |      | 10.71                      |      |       |      |      |      |       |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      | 14.09 |       |                            |      | 14.03                      |      |       |      |      |      |       |      |       |       |      |
|                  | PW                    |    |      |      |                          |      | 17.01 |       |                            |      | 20.00                      |      |       |      |      |      |       |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      | 416   |       |                            |      | 433                        |      |       |      |      |      |       |      |       |       |      |
| 6190/5Y          | PH MIN                |    |      |      |                          |      |       | 12.28 |                            |      | 12.28                      |      |       |      |      |      |       |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      |       | 15.45 |                            |      | 15.39                      |      |       |      |      |      |       |      |       |       |      |
|                  | PW                    |    |      |      |                          |      |       | 20.00 |                            |      | 24.02                      |      |       |      |      |      |       |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       | 595   |                            |      | 654                        |      |       |      |      |      |       |      |       |       |      |
| 6205Y            | PH MIN                |    |      |      | 13.40                    |      |       |       | 13.52                      |      | 13.52                      |      |       |      |      |      |       |      |       |       |      |
|                  | MAX                   |    |      |      | 17.13                    |      |       |       | 17.90                      |      | 17.00                      |      |       |      |      |      |       |      |       |       |      |
|                  | PW                    |    |      |      | 15.98                    |      |       |       | 18.98                      |      | 18.98                      |      |       |      |      |      |       |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      | 629                      |      |       |       | 680                        |      | 732                        |      |       |      |      |      |       |      |       |       |      |
| 6215Y            | PH MIN                |    |      |      |                          |      |       |       |                            |      | 14.27                      |      |       |      |      |      | 14.52 |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      |       |       |                            |      | 18.25                      |      |       |      |      |      | 18.25 |      |       |       |      |
|                  | PW                    |    |      |      |                          |      |       |       |                            |      | 24.02                      |      |       |      |      |      | 28.03 |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       |                            |      | 911                        |      |       |      |      |      | 1055  |      |       |       |      |
| 6225Y            | PH MIN                |    |      |      |                          |      |       |       |                            |      | 14.78                      |      |       |      |      |      | 15.26 |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      |       |       |                            |      | 18.76                      |      |       |      |      |      | 18.74 |      |       |       |      |
|                  | PW                    |    |      |      |                          |      |       |       |                            |      | 24.02                      |      |       |      |      |      | 28.03 |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       |                            |      | 1065                       |      |       |      |      |      | 1216  |      |       |       |      |
| 6235Y            | PH MIN                |    |      |      | 15.64                    |      |       |       | 15.77                      |      | 15.77                      |      |       |      |      |      | 16.27 |      |       |       |      |
|                  | MAX                   |    |      |      | 19.87                    |      |       |       | 19.75                      |      | 19.75                      |      |       |      |      |      | 19.75 |      |       |       |      |
|                  | PW                    |    |      |      | 15.98                    |      |       |       | 18.98                      |      | 24.02                      |      |       |      |      |      | 28.03 |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      | 1173                     |      |       |       | 1221                       |      | 1268                       |      |       |      |      |      | 1354  |      |       |       |      |
| 6245Y            | PH MIN                |    |      |      |                          |      |       |       | 17.05                      |      | 17.05                      |      |       |      |      |      | 17.58 |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      |       |       | 20.80                      |      | 20.80                      |      |       |      |      |      | 20.82 |      |       |       |      |
|                  | PW                    |    |      |      |                          |      |       |       | 22.05                      |      | 24.02                      |      |       |      |      |      | 28.03 |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       | 1483                       |      | 1506                       |      |       |      |      |      | 1650  |      |       |       |      |
| 6255Y            | PH MIN                |    |      |      |                          |      |       |       |                            |      | 18.31                      |      |       |      |      |      | 18.80 |      | 18.80 |       |      |
|                  | MAX                   |    |      |      |                          |      |       |       |                            |      | 22.06                      |      |       |      |      |      | 22.04 |      | 22.04 |       |      |
|                  | PW                    |    |      |      |                          |      |       |       |                            |      | 28.03                      |      |       |      |      |      | 28.03 |      | 30.00 |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       |                            |      | 2252                       |      |       |      |      |      | 2387  |      | 2428  |       |      |
| 6265Y            | PH MIN                |    |      |      |                          |      |       |       |                            |      |                            |      | 19.29 |      |      |      | 19.82 |      |       | 19.82 |      |
|                  | MAX                   |    |      |      |                          |      |       |       |                            |      |                            |      | 25.04 |      |      |      | 25.07 |      |       | 25.07 |      |
|                  | PW                    |    |      |      |                          |      |       |       |                            |      |                            |      | 24.02 |      |      |      | 28.03 |      |       | 30.00 |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       |                            |      |                            |      | 2773  |      |      |      | 2903  |      |       | 3028  |      |
| 6275Y            | PH MIN                |    |      |      |                          |      |       |       |                            |      |                            |      |       |      |      |      | 23.44 |      |       |       |      |
|                  | MAX                   |    |      |      |                          |      |       |       |                            |      |                            |      |       |      |      |      | 28.69 |      |       |       |      |
|                  | PW                    |    |      |      |                          |      |       |       |                            |      |                            |      |       |      |      |      | 28.35 |      |       |       |      |
|                  | Weight w/o Motor (lb) |    |      |      |                          |      |       |       |                            |      |                            |      |       |      |      |      | 5828  |      |       |       |      |

Speed Reducers

Dimensions



## CYCLO® 6000 Speed Reducers

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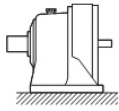
Speed  
Reducers

Dimensions

### 4.20 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

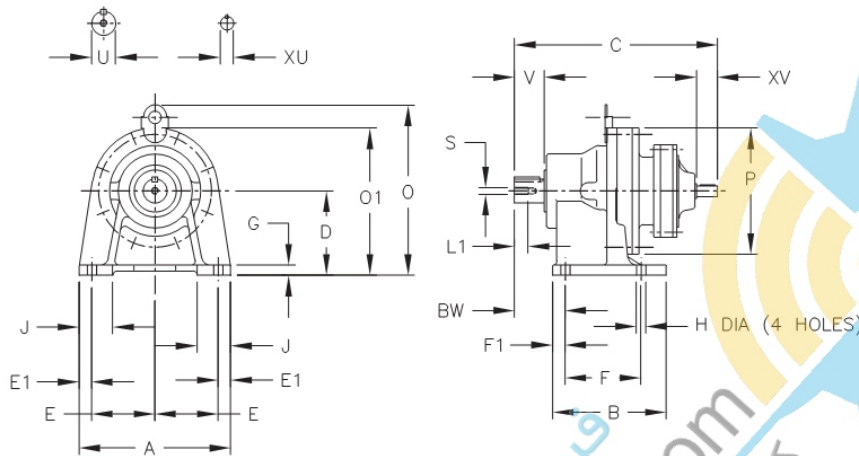
Sumitomo Drive Technologies Cyclo® 6000 Series



## CYCLO® 6000 Speed Reducers

# Dimensions Foot Mount

## Double Reduction CNH-6060/5DAY ▶ 6120/5DBY



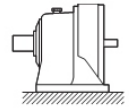
### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CNH | A    | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | O1   | O     | P    | BW   |
|--------------|------|------|-------|-------|------|------|------|------|------|------|------|------|-------|------|------|
| 6060/5DAY    | 5.67 | 3.31 | 7.01  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.61 |
| 6070/5DAY    | 5.67 | 3.31 | 7.24  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.85 |
| 6090/5DAY    | 7.09 | 5.31 | 9.57  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89 | -     | 5.91 | 2.36 |
| 6100/5DAY    | 7.09 | 5.31 | 10.12 | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | -    | 8.15  | 5.91 | 2.36 |
| 6120/5DBY    | 9.06 | 6.10 | 12.28 | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | -    | 10.12 | 8.03 | 3.23 |

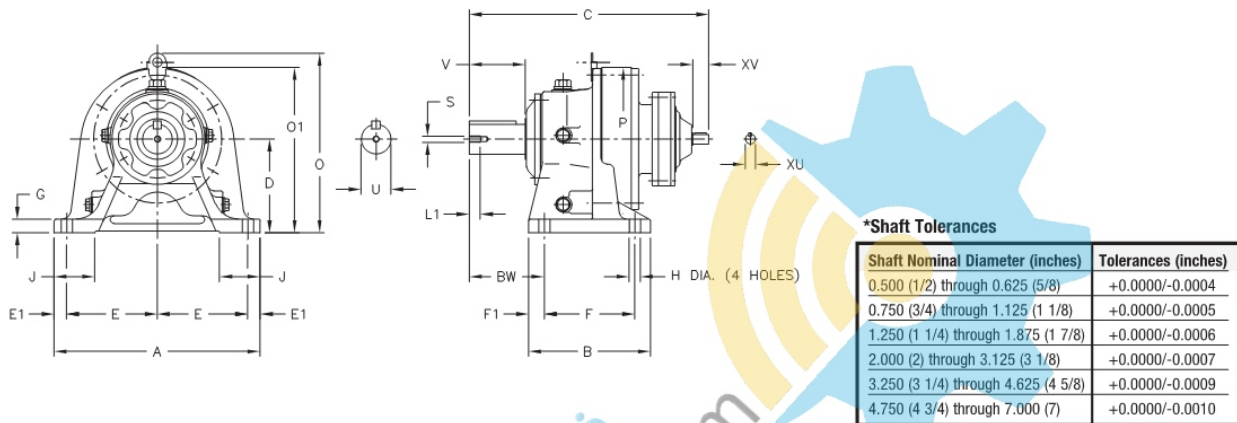
| Model<br>CNH | U*    | V    | Low Speed Shaft |      | Key                |  | High Speed Shaft |      | Key                |  | Approx.<br>Wt. (lb.) |
|--------------|-------|------|-----------------|------|--------------------|--|------------------|------|--------------------|--|----------------------|
|              |       |      | S               | L1   |                    |  | XU*              | XV   |                    |  |                      |
| 6060/5DAY    | 0.500 | 0.98 | 10-32UNF        | 0.63 | 1/8 X 1/8 X .79    |  | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |  | 9                    |
| 6070/5DAY    | 0.750 | 1.18 | 12-28UNF        | 0.63 | 3/16 X 3/16 X 1.06 |  | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |  | 10                   |
| 6090/5DAY    | 1.125 | 1.38 | 5/16-18UNC      | 0.79 | 1/4 X 1/4 X 1.18   |  | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |  | 26                   |
| 6100/5DAY    | 1.125 | 1.38 | 5/16-18UNC      | 0.79 | 1/4 X 1/4 X 1.18   |  | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |  | 33                   |
| 6120/5DBY    | 1.500 | 2.17 | 5/16-18UNC      | 0.79 | 3/8 X 3/8 X 1.77   |  | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |  | 64                   |



# Dimensions Foot Mount

## Double Reduction

### CHH-6130/5DAY ▶ 6140/5DCY



All dimensions are in inches

Speed  
Reducers

Dimensions

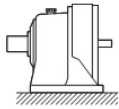
| Model<br>CHH | A     | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | O1 | O     | P    | BW   |
|--------------|-------|------|-------|-------|------|------|------|------|------|------|------|----|-------|------|------|
| 6130/5DAY    | 12.99 | 7.68 | 13.66 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6130/5DBY    | 12.99 | 7.68 | 14.29 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6130/5DCY    | 12.99 | 7.68 | 14.53 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6140/5DAY    | 12.99 | 7.68 | 14.45 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |
| 6140/5DBY    | 12.99 | 7.68 | 15.08 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |
| 6140/5DCY    | 12.99 | 7.68 | 15.31 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |

| Model<br>CHH | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|----------------------|
|              | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                      |
| 6130/5DAY    | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 90                   |
| 6130/5DBY    | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 99                   |
| 6130/5DCY    | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 101                  |
| 6140/5DAY    | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 90                   |
| 6140/5DBY    | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 99                   |
| 6140/5DCY    | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 101                  |

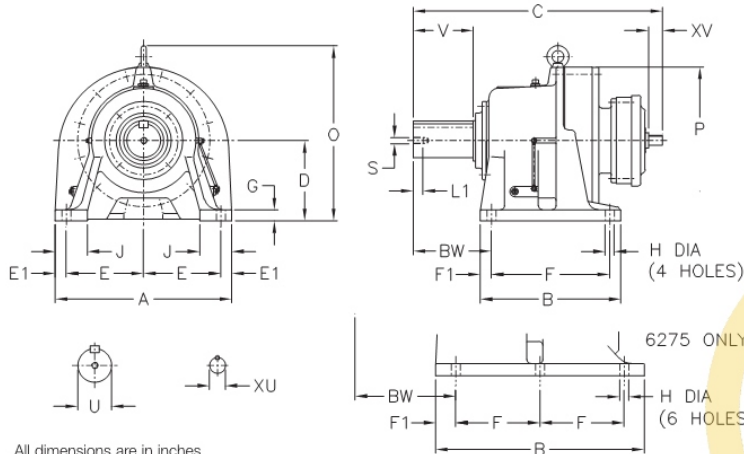
## 4.22 Dimensions

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## Dimensions Foot Mount

Double Reduction  
CHH-6160/5DCY ▶ 6275DAY

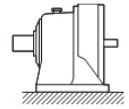
All dimensions are in inches

## \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

| Model CHH | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O     | P     | BW    |
|-----------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|-------|
| 6160/5DCY | 16.14 | 9.37  | 18.19 | 6.299  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 13.74 | 11.81 | 5.47  |
| 6170/5DCY | 16.93 | 13.19 | 20.04 | 7.874  | 7.48  | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 16.38 | 13.39 | 4.92  |
| 6180/5DBY | 18.50 | 14.96 | 22.72 | 8.661  | 8.27  | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 17.76 | 14.57 | 5.71  |
| 6190/5DAY | 20.87 | 17.32 | 24.76 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 20.91 | 16.93 | 6.69  |
| 6190/5DBY | 20.87 | 17.32 | 25.71 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 20.91 | 16.93 | 6.69  |
| 6205DAY   | 20.87 | 17.32 | 26.38 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 17.64 | 8.46  |
| 6205DBY   | 20.87 | 17.32 | 27.76 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 17.64 | 8.46  |
| 6215DAY   | 22.83 | 18.70 | 28.78 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.09 | 8.27  |
| 6215DBY   | 22.83 | 18.70 | 30.71 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.09 | 8.27  |
| 6225DAY   | 24.41 | 20.47 | 30.43 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 20.71 | 9.06  |
| 6225DBY   | 24.41 | 20.47 | 33.86 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 20.71 | 9.06  |
| 6235DAY   | 26.38 | 22.05 | 34.76 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 22.13 | 10.24 |
| 6235DBY   | 26.38 | 22.05 | 36.93 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 22.13 | 10.24 |
| 6245DAY   | 28.35 | 22.83 | 36.26 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 24.17 | 10.35 |
| 6245DBY   | 28.35 | 22.83 | 38.39 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 24.17 | 10.35 |
| 6255DAY   | 30.71 | 24.80 | 42.56 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 26.38 | 12.60 |
| 6255DBY   | 30.71 | 24.80 | 44.61 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 26.38 | 12.60 |
| 6265DAY   | 34.65 | 27.56 | 48.94 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | 34.41 | 28.98 | 15.35 |
| 6275DAY   | 45.67 | 40.94 | 59.21 | 21.260 | 20.67 | 2.17 | 16.54 | 3.94 | 2.36 | 1.77 | 7.87 | 45.71 | 37.40 | 19.09 |

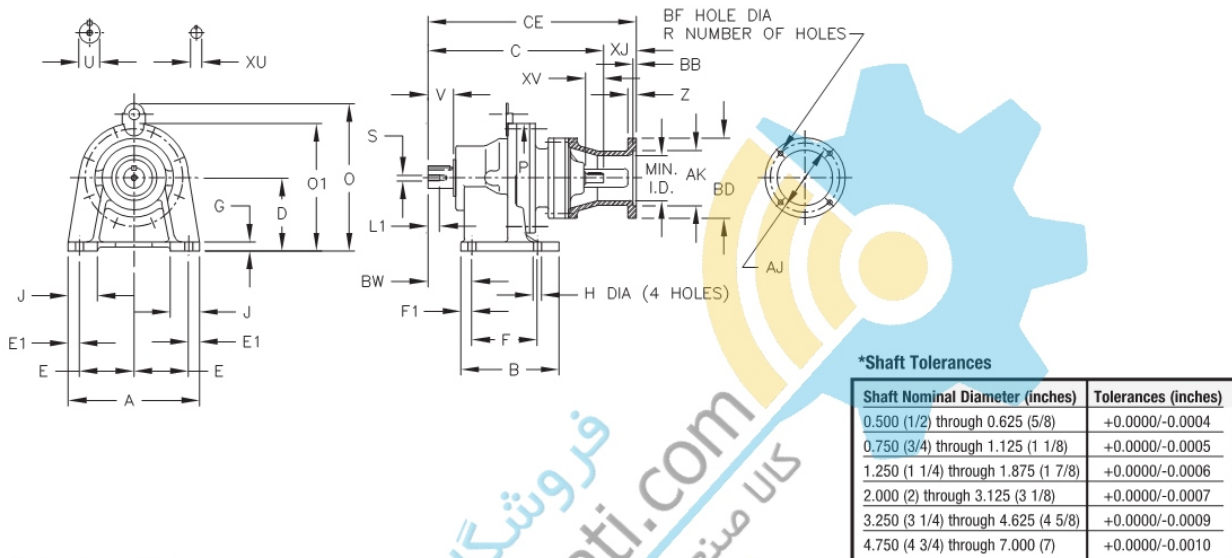
| Model CHH | U*    | V     | Low Speed Shaft |      | Key                  |  | High Speed Shaft |      | Key                |  | Approx. Wt. (lb.) |
|-----------|-------|-------|-----------------|------|----------------------|--|------------------|------|--------------------|--|-------------------|
|           |       |       | S               | L1   |                      |  | XU*              | XV   |                    |  |                   |
| 6160/5DCY | 2.250 | 3.54  | 3/8-16UNC       | 0.71 | 1/2 X 1/2 X 2.95     |  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |  | 207               |
| 6170/5DCY | 2.750 | 3.54  | 1/2-13UNC       | 0.94 | 5/8 X 5/8 X 3.15     |  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |  | 282               |
| 6180/5DBY | 3.125 | 4.33  | 1/2-13UNC       | 0.94 | 3/4 X 3/4 X 3.74     |  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |  | 404               |
| 6190/5DAY | 3.625 | 5.31  | 3/4-10UNC       | 1.34 | 7/8 X 7/8 X 4.92     |  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |  | 531               |
| 6190/5DBY | 3.625 | 5.31  | 3/4-10UNC       | 1.34 | 7/8 X 7/8 X 4.92     |  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |  | 551               |
| 6205DAY   | 3.875 | 6.50  | 3/4-10UNC       | 1.34 | 1 X 1 X 6.50         |  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |  | 573               |
| 6205DBY   | 3.875 | 6.50  | 3/4-10UNC       | 1.34 | 1 X 1 X 6.50         |  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |  | 602               |
| 6215DAY   | 4.250 | 6.50  | 3/4-10UNC       | 1.34 | 1 X 1 X 6.50         |  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |  | 781               |
| 6215DBY   | 4.250 | 6.50  | 3/4-10UNC       | 1.34 | 1 X 1 X 6.50         |  | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |  | 829               |
| 6225DAY   | 4.625 | 6.50  | 3/4-10UNC       | 1.34 | 1-1/4 X 7/8 X 6.5    |  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |  | 946               |
| 6225DBY   | 4.625 | 6.50  | 3/4-10UNC       | 1.34 | 1-1/4 X 7/8 X 6.5    |  | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |  | 1050              |
| 6235DAY   | 5.000 | 7.87  | 1-8UNC          | 1.61 | 1-1/4 X 7/8 X 7.87   |  | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |  | 1208              |
| 6235DBY   | 5.000 | 7.87  | 1-8UNC          | 1.61 | 1-1/4 X 7/8 X 7.87   |  | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |  | 1283              |
| 6245DAY   | 5.500 | 7.87  | 1-8UNC          | 1.61 | 1-1/4 X 7/8 X 7.87   |  | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |  | 1446              |
| 6245DBY   | 5.500 | 7.87  | 1-8UNC          | 1.61 | 1-1/4 X 7/8 X 7.87   |  | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |  | 1513              |
| 6255DAY   | 6.250 | 9.45  | 1-1/4-7UNC      | 1.93 | 1-1/2 X 1 X 9.45     |  | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |  | 2227              |
| 6255DBY   | 6.250 | 9.45  | 1-1/4-7UNC      | 1.93 | 1-1/2 X 1 X 9.45     |  | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |  | 2392              |
| 6265DAY   | 6.625 | 11.81 | 1-1/4-7UNC      | 1.93 | 1-3/4 X 1-1/4 X 11.8 |  | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |  | 2955              |
| 6275DAY   | 7.000 | 13.00 | 1-1/4-7UNC      | 2.05 | 1-3/4 X 1-1/4 X 13   |  | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |  | 5468              |



# Dimensions Foot Mount, C-Face

## Double Reduction

### CNHJ-6060/5DAY ▶ 6120/5DBY



All dimensions are in inches

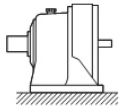
| Model<br>CNHJ | A    | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | O1   | O     | P    | BW   |
|---------------|------|------|-------|-------|------|------|------|------|------|------|------|------|-------|------|------|
| 6060/5DAY     | 5.67 | 3.31 | 7.01  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.61 |
| 6070/5DAY     | 5.67 | 3.31 | 7.24  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31 | -     | 4.33 | 1.85 |
| 6090/5DAY     | 7.09 | 5.31 | 9.57  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89 | -     | 5.91 | 2.36 |
| 6100/5DAY     | 7.09 | 5.31 | 10.12 | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | -    | 8.15  | 5.91 | 2.36 |
| 6120/5DBY     | 9.06 | 6.10 | 12.28 | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | -    | 10.12 | 8.03 | 3.23 |

| Model<br>CNHJ | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    |
|---------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|
|               | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |
| 6060/5DAY     | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X .79    | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6070/5DAY     | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6090/5DAY     | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6100/5DAY     | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6120/5DBY     | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |

| Model<br>CNHJ | Motor<br>Frame | AJ   | AK    | BD   | BB | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|----|------|---|-------|------|------|--------------|--------------------|
| 6060/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 8.79  | 1.78 | 0.47 | 2.44         | 12                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.17  | 2.16 | 0.47 | 2.44         | 12                 |
| 6070/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.02  | 1.78 | 0.47 | 2.44         | 13                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.40  | 2.16 | 0.47 | 2.44         | 13                 |
| 6090/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.35 | 1.78 | 0.47 | 2.44         | 29                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.72 | 2.16 | 0.47 | 2.44         | 30                 |
|               | 56~145TC       | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.13 | 2.56 | 0.47 | 3.15         | 32                 |
| 6100/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.90 | 1.78 | 0.47 | 2.44         | 36                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 12.28 | 2.16 | 0.47 | 2.44         | 36                 |
|               | 56~145TC       | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.68 | 2.56 | 0.47 | 3.15         | 39                 |
| 6120/5DBY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.06 | 1.78 | 0.47 | 2.44         | 69                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.44 | 2.16 | 0.47 | 2.44         | 69                 |
|               | 56~145TC       | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 14.91 | 2.63 | 0.47 | 4.21         | 71                 |

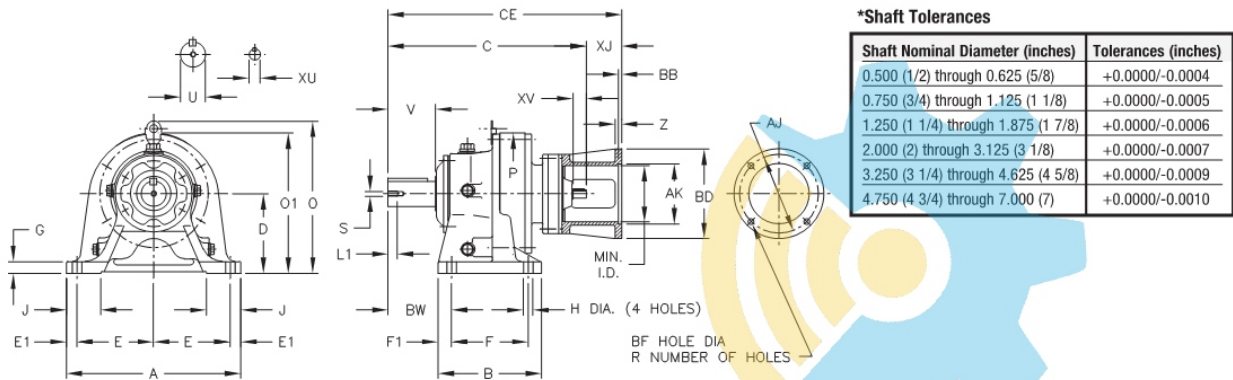
#### 4.24 Dimensions

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# Dimensions Foot Mount, C-Face

## Double Reduction CHHJ-6130/5DAY ▶ 6140/5DCY



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

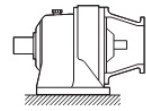
All dimensions are in inches

| Model CHHJ | A     | B    | C     | D     | E    | E1   | F    | F1   | G    | H    | J    | O1 | O     | P    | BW   |
|------------|-------|------|-------|-------|------|------|------|------|------|------|------|----|-------|------|------|
| 6130/5DAY  | 12.99 | 7.68 | 13.66 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6130/5DBY  | 12.99 | 7.68 | 14.29 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6130/5DCY  | 12.99 | 7.68 | 14.53 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 3.94 |
| 6140/5DAY  | 12.99 | 7.68 | 14.45 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |
| 6140/5DBY  | 12.99 | 7.68 | 15.08 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |
| 6140/5DCY  | 12.99 | 7.68 | 15.31 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | -  | 11.81 | 9.06 | 4.72 |

| Model CHHJ | U*    | V    | Low Speed Shaft S | L1   | Key              | XU*   | High Speed Shaft XV | Key                |
|------------|-------|------|-------------------|------|------------------|-------|---------------------|--------------------|
| 6130/5DAY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16 | 0.500 | 0.98                | 1/8 X 1/8 X 0.71   |
| 6130/5DBY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16 | 0.625 | 0.98                | 3/16 X 3/16 X 0.75 |
| 6130/5DCY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16 | 0.625 | 0.98                | 3/16 X 3/16 X 0.75 |
| 6140/5DAY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95 | 0.500 | 0.98                | 1/8 X 1/8 X 0.71   |
| 6140/5DBY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95 | 0.625 | 0.98                | 3/16 X 3/16 X 0.75 |
| 6140/5DCY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95 | 0.625 | 0.98                | 3/16 X 3/16 X 0.75 |

| Model CHHJ | Motor Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|------|-------|------|------|------|---|-------|------|------|-----------|-----------------|
| 6130/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.44 | 1.78 | 0.47 | 2.44      | 94              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.82 | 2.16 | 0.47 | 2.44      | 94              |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.22 | 2.56 | 0.47 | 4.21      | 96              |
| 6130/5DBY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.07 | 1.78 | 0.47 | 2.44      | 103             |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.45 | 2.16 | 0.47 | 2.44      | 105             |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.92 | 2.63 | 0.47 | 4.21      | 107             |
| 6130/5DCY  | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.69 | 2.16 | 0.47 | 2.44      | 107             |
|            | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.15 | 2.63 | 0.47 | 4.21      | 108             |
| 6140/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.23 | 1.78 | 0.47 | 2.44      | 94              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.61 | 2.16 | 0.47 | 2.44      | 94              |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.01 | 2.56 | 0.47 | 4.21      | 96              |
| 6140/5DBY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.86 | 1.78 | 0.47 | 2.44      | 104             |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.24 | 2.16 | 0.47 | 2.44      | 105             |
|            | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.70 | 2.63 | 0.47 | 4.21      | 107             |
| 6140/5DCY  | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.47 | 2.16 | 0.47 | 2.44      | 107             |
|            | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.94 | 2.63 | 0.47 | 4.21      | 108             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 18.98 | 3.67 | 0.47 | 5.43      | 112             |

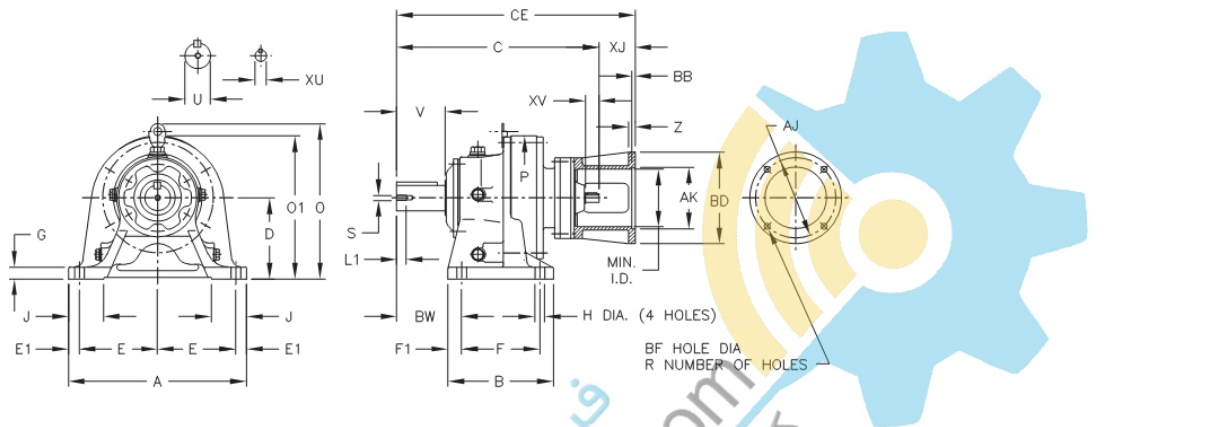




# Dimensions Foot Mount, C-Face

## Double Reduction

### CHHJ-6160/5DCY ▶ 6225DBY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

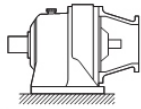
All dimensions are in inches

| Model CHHJ | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O1 | O     | P     | BW   |
|------------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|----|-------|-------|------|
| 6160/5DCY  | 16.14 | 9.37  | 18.19 | 6.299  | 7.28  | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | -  | 13.74 | 11.81 | 5.47 |
| 6170/5DCY  | 16.93 | 13.19 | 20.04 | 7.874  | 7.48  | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | -  | 16.38 | 13.39 | 4.92 |
| 6180/5DBY  | 18.50 | 14.96 | 22.72 | 8.661  | 8.27  | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | -  | 17.76 | 14.57 | 5.71 |
| 6190/5DAY  | 20.87 | 17.32 | 24.76 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | -  | 20.91 | 16.93 | 6.69 |
| 6190/5DBY  | 20.87 | 17.32 | 25.71 | 9.843  | 9.45  | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | -  | 20.91 | 16.93 | 6.69 |
| 6205DAY    | 20.87 | 17.32 | 26.38 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | -  | 20.87 | 17.64 | 8.46 |
| 6205DBY    | 20.87 | 17.32 | 27.76 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | -  | 20.87 | 17.64 | 8.46 |
| 6215DAY    | 22.83 | 18.70 | 28.78 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | -  | 22.64 | 19.09 | 8.27 |
| 6215DBY    | 22.83 | 18.70 | 30.71 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | -  | 22.64 | 19.09 | 8.27 |
| 6225DAY    | 24.41 | 20.47 | 30.43 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | -  | 24.02 | 20.71 | 9.06 |
| 6225DBY    | 24.41 | 20.47 | 33.86 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | -  | 24.02 | 20.71 | 9.06 |

| Model CHHJ | Low Speed Shaft |      |           |      |                   | High Speed Shaft |      |                    |
|------------|-----------------|------|-----------|------|-------------------|------------------|------|--------------------|
|            | U*              | V    | S         | L1   | Key               | XU*              | XV   | Key                |
| 6160/5DCY  | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6170/5DCY  | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6180/5DBY  | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6190/5DAY  | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92  | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6190/5DBY  | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92  | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6205DAY    | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50      | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6205DBY    | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50      | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6215DAY    | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50      | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6215DBY    | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50      | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6225DAY    | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.5 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6225DBY    | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.5 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |

#### 4.26 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## CYCLO® 6000 Speed Reducers

# Dimensions Foot Mount, C-Face

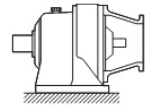
## Double Reduction CHHJ-6160/5DCY ▶ 6225DBY (cont.)

All dimensions are in inches

| Model<br>CHHJ | Motor<br>Frame | AJ   | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6160/5DCY     | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 20.81 | 2.63 | 0.47 | 4.21         | 217                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 21.56 | 3.37 | 0.47 | 5.43         | 221                |
| 6170/5DCY     | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 22.67 | 2.63 | 0.47 | 4.21         | 292                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 23.41 | 3.37 | 0.47 | 5.43         | 295                |
| 6180/5DBY     | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 25.34 | 2.63 | 0.47 | 4.21         | 416                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 26.09 | 3.37 | 0.47 | 5.43         | 419                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 26.72 | 4.00 | 1.10 | 5.43         | 427                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 27.65 | 4.93 | 0.57 | 5.08         | 428                |
| 6190/5DAY     | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 27.39 | 2.63 | 0.47 | 4.21         | 541                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 28.13 | 3.37 | 0.47 | 5.43         | 545                |
| 6190/5DBY     | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 28.33 | 2.63 | 0.47 | 4.21         | 563                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 29.08 | 3.37 | 0.47 | 5.43         | 567                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 29.71 | 4.00 | 1.10 | 5.43         | 574                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 30.64 | 4.93 | 0.57 | 5.08         | 576                |
| 6205DAY       | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 29.00 | 2.63 | 0.47 | 4.21         | 583                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 29.75 | 3.37 | 0.47 | 5.43         | 587                |
| 6205DBY       | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 30.38 | 2.63 | 0.47 | 4.21         | 614                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 31.13 | 3.37 | 0.47 | 5.43         | 618                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 31.76 | 4.00 | 1.10 | 5.43         | 625                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 32.69 | 4.93 | 0.57 | 5.08         | 626                |
| 6215DAY       | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 31.41 | 2.63 | 0.47 | 4.21         | 793                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 32.15 | 3.37 | 0.47 | 5.43         | 796                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 32.78 | 4.00 | 1.10 | 5.43         | 804                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 33.71 | 4.93 | 0.57 | 5.08         | 805                |
| 6215DBY       | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 33.33 | 2.63 | 0.47 | 4.21         | 871                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.08 | 3.37 | 0.57 | 5.71         | 875                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.71 | 4.00 | 1.20 | 5.71         | 882                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 35.46 | 4.75 | 0.57 | 5.71         | 878                |
| 6225DAY       | 56C~145TC      | 5.88 | 4.500  | 6.69  | -    | 0.43 | 4 | 33.06 | 2.63 | 0.47 | 4.21         | 958                |
|               | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 33.81 | 3.37 | 0.47 | 5.43         | 962                |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.43 | 4.00 | 1.10 | 5.43         | 969                |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 35.36 | 4.93 | 0.57 | 5.08         | 970                |
| 6225DBY       | 182TC~184TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 37.24 | 3.38 | 0.57 | 5.71         | 1088               |
|               | 213TC~215TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 37.86 | 4.00 | 1.20 | 5.71         | 1095               |
|               | 254TC~256TC    | 7.25 | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.61 | 4.75 | 0.57 | 5.71         | 1090               |
|               | 284TC~286TC    | 9.00 | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 39.30 | 5.44 | 0.57 | 7.87         | 1101               |

Speed  
Reducers

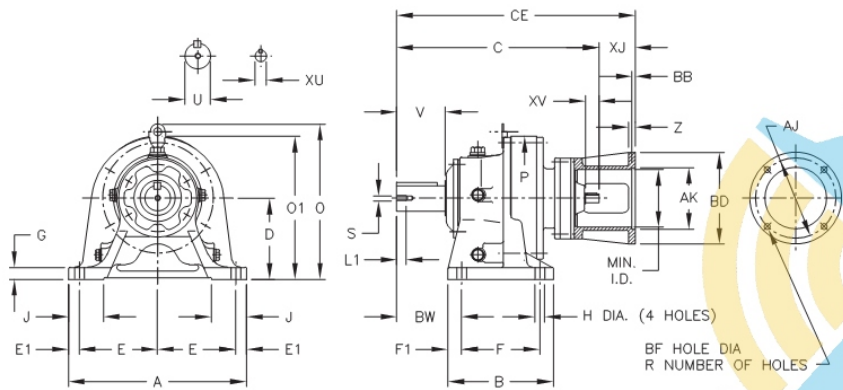
Dimensions



# Dimensions Foot Mount, C-Face

## Double Reduction

### CHHJ-6235DAY ▶ 6275DAY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

Speed Reducers

All dimensions are in inches

#### Dimensions

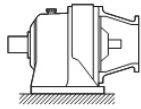
| Model CHHJ | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O1 | O     | P     | BW    |
|------------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|----|-------|-------|-------|
| 6235DAY    | 26.38 | 22.05 | 34.76 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | -  | 26.26 | 22.13 | 10.24 |
| 6235DBY    | 26.38 | 22.05 | 36.93 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | -  | 26.26 | 22.13 | 10.24 |
| 6245DAY    | 28.35 | 22.83 | 36.26 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | -  | 28.70 | 24.17 | 10.35 |
| 6245DBY    | 28.35 | 22.83 | 38.39 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | -  | 28.70 | 24.17 | 10.35 |
| 6255DAY    | 30.71 | 24.80 | 42.56 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | -  | 32.09 | 26.38 | 12.60 |
| 6255DBY    | 30.71 | 24.80 | 44.61 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | -  | 32.09 | 26.38 | 12.60 |
| 6265DAY    | 34.65 | 27.56 | 48.94 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | -  | 34.41 | 28.98 | 15.35 |
| 6275DAY    | 45.67 | 40.94 | 59.21 | 21.260 | 20.67 | 2.17 | 16.54 | 3.94 | 2.36 | 1.77 | 7.87 | -  | 45.71 | 37.40 | 19.09 |

| Model CHHJ | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    |
|------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|
|            | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |
| 6235DAY    | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6235DBY    | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6245DAY    | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6245DBY    | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6255DAY    | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6255DBY    | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6265DAY    | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6275DAY    | 7.000           | 13.00 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |

#### 4.28 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.





## CYCLO® 6000 Speed Reducers

# Dimensions Foot Mount, C-Face

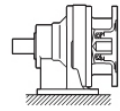
## Double Reduction CHHJ-6235DAY ▶ 6275DAY (cont.)

All dimensions are in inches

| Model<br>CHHJ | Motor<br>Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|-------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6235DAY       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 37.39 | 2.63 | 0.47 | 4.21         | 1250               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.14 | 3.37 | 0.57 | 5.71         | 1254               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.76 | 4.00 | 1.20 | 5.71         | 1262               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.52 | 4.75 | 0.57 | 5.71         | 1257               |
| 6235DBY       | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.43 | 3.50 | 0.57 | 5.71         | 1331               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.93 | 4.00 | 1.07 | 5.71         | 1337               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.68 | 4.75 | 0.57 | 5.71         | 1345               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 42.37 | 5.44 | 0.57 | 7.87         | 1340               |
| 6245DAY       | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 43.43 | 6.50 | 0.57 | 7.87         | 1344               |
|               | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 38.89 | 2.63 | 0.47 | 4.21         | 1488               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.63 | 3.37 | 0.57 | 5.71         | 1493               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.26 | 4.00 | 1.20 | 5.71         | 1500               |
| 6245DBY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.01 | 4.75 | 0.57 | 5.71         | 1495               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.89 | 3.50 | 0.57 | 5.71         | 1560               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 42.39 | 4.00 | 1.07 | 5.71         | 1566               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 43.14 | 4.75 | 0.57 | 5.71         | 1574               |
| 6255DAY       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 43.82 | 5.44 | 0.57 | 7.87         | 1569               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 44.89 | 6.50 | 0.57 | 7.87         | 1573               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 45.94 | 3.38 | 0.57 | 5.71         | 2265               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 46.56 | 4.00 | 1.20 | 5.71         | 2271               |
| 6255DBY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 47.31 | 4.75 | 0.57 | 5.71         | 2267               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 48.00 | 5.44 | 0.57 | 7.87         | 2278               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 51.11 | 6.50 | 0.57 | 7.87         | 2489               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 48.73 | 4.13 | 1.29 | 5.71         | 2462               |
| 6265DAY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 49.36 | 4.75 | 0.57 | 5.71         | 2455               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 50.04 | 5.44 | 0.57 | 7.87         | 2464               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 55.44 | 6.50 | 0.57 | 7.87         | 3051               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.06 | 4.13 | 1.29 | 5.71         | 3025               |
| 6275DAY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.69 | 4.75 | 0.57 | 5.71         | 3018               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 54.37 | 5.44 | 0.57 | 7.87         | 3026               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 55.44 | 6.50 | 0.57 | 7.87         | 3051               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 63.34 | 4.13 | 1.29 | 5.71         | 5538               |
| 6275DBY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 63.96 | 4.75 | 0.57 | 5.71         | 5531               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 64.65 | 5.44 | 0.57 | 7.87         | 5540               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 65.71 | 6.50 | 0.57 | 7.87         | 5565               |

Speed  
Reducers

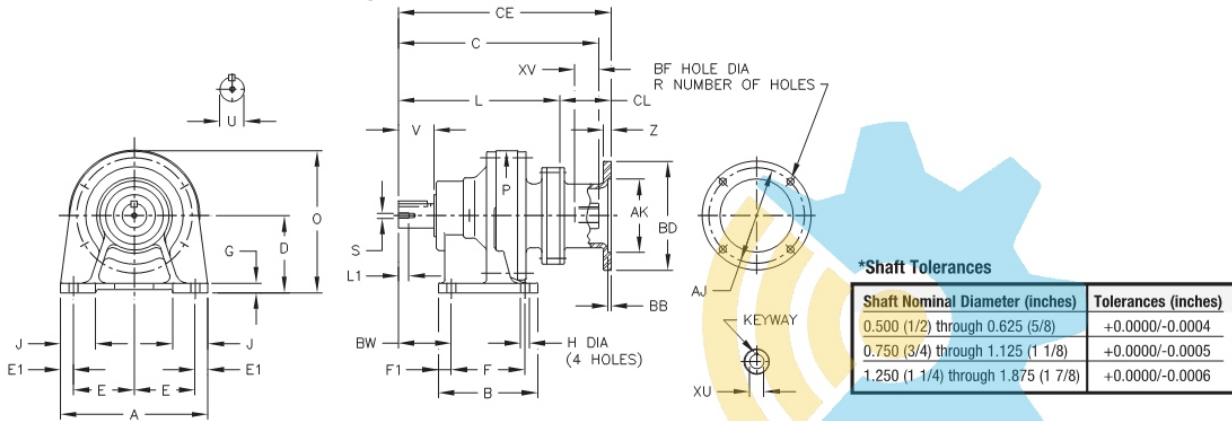
Dimensions



# Dimensions Foot Mount, Hollow Input

## Double Reduction

### CNHX-6065DAY ▶ 6140/5DCY



All dimensions are in inches

| Model CNHX | A     | B    | L     | D     | E    | E1   | F    | F1   | G    | H    | J    | O     | P    | BW   |
|------------|-------|------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 6065DAY    | 5.67  | 3.31 | 4.92  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31  | 4.33 | 1.61 |
| 6075DAY    | 5.67  | 3.31 | 5.16  | 3.150 | 2.36 | 0.47 | 2.36 | 0.47 | 0.39 | 0.35 | 1.38 | 5.31  | 4.33 | 1.85 |
| 6095DAY    | 7.09  | 5.31 | 7.48  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89  | 5.91 | 2.36 |
| 6105DAY    | 7.09  | 5.31 | 8.03  | 3.937 | 2.95 | 0.59 | 3.54 | 0.59 | 0.47 | 0.43 | 1.57 | 6.89  | 5.91 | 2.36 |
| 6125DBY    | 9.06  | 6.10 | 9.92  | 4.724 | 3.74 | 0.79 | 4.53 | 0.79 | 0.59 | 0.55 | 2.17 | 8.74  | 8.03 | 3.23 |
| 6130/5DAY  | 12.99 | 7.68 | 11.58 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 3.94 |
| 6130/5DBY  | 12.99 | 7.68 | 11.94 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 3.94 |
| 6130/5DCY  | 12.99 | 7.68 | 12.48 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 3.94 |
| 6140/5DAY  | 12.99 | 7.68 | 12.36 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 4.72 |
| 6140/5DBY  | 12.99 | 7.68 | 12.72 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 4.72 |
| 6140/5DCY  | 12.99 | 7.68 | 13.26 | 5.906 | 5.71 | 0.79 | 5.71 | 0.98 | 0.87 | 0.71 | 2.56 | 11.81 | 9.06 | 4.72 |

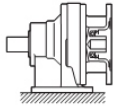
| Model CNHX | U*    | V    | Low Speed Shaft S | L1   | Key                |
|------------|-------|------|-------------------|------|--------------------|
| 6065DAY    | 0.500 | 0.98 | 10-32UNF          | 0.63 | 1/8 X 1/8 X .79    |
| 6075DAY    | 0.750 | 1.18 | 12-28UNF          | 0.63 | 3/16 X 3/16 X 1.06 |
| 6095DAY    | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   |
| 6105DAY    | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   |
| 6125DBY    | 1.500 | 2.17 | 5/16-18UNC        | 0.79 | 3/8 X 3/8 X 1.77   |
| 6130/5DAY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16   |
| 6130/5DBY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16   |
| 6130/5DCY  | 1.875 | 2.76 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.16   |
| 6140/5DAY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95   |
| 6140/5DBY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95   |
| 6140/5DCY  | 1.875 | 3.54 | 3/8-16UNC         | 0.71 | 1/2 X 1/2 X 2.95   |

Note: [1] Center height "D" for 6065DAY and 6075DAY is less than the radius of motor flange diameter half of "BD" (frame 56C).

#### 4.30 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



## CYCLO® 6000 Speed Reducers

# Dimensions Foot Mount, Hollow Input

## Double Reduction CNHX-6065DAY ▶ 6140/5DCY (cont.)

All dimensions are in inches

| Model<br>CNHX | Motor<br>Frame | AJ   | AK   | BD                  | BB   | BF   | R | CE    | CL   | C     | Z    | XU                          | High Speed Shaft<br>XV | Keyway      | Approx<br>Wt. (lb) |
|---------------|----------------|------|------|---------------------|------|------|---|-------|------|-------|------|-----------------------------|------------------------|-------------|--------------------|
| 6065DAY       | 56C            | 5.88 | 4.50 | 6.69 <sup>(1)</sup> | 0.20 | 0.43 | 4 | 7.91  | 2.99 | 6.89  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 13                 |
| 6075DAY       | 56C            | 5.88 | 4.50 | 6.69 <sup>(1)</sup> | 0.20 | 0.43 | 4 | 8.15  | 2.99 | 7.13  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 14                 |
| 6095DAY       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 10.47 | 2.99 | 9.45  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 32                 |
| 6105DAY       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 11.02 | 2.99 | 10.00 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 38                 |
| 6125DBY       | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 13.27 | 3.35 | 12.24 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 68                 |
|               | 143-145TC      | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 13.27 | 3.35 | 12.64 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57                   | 3/16 x 3/32 | 68                 |
| 6130/5DAY     | 56C            | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 14.57 | 2.99 | 13.55 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 95                 |
| 6130/5DBY     | 56C            | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 15.29 | 3.35 | 14.42 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 104                |
|               | 143-145TC      | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 15.29 | 3.35 | 14.65 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57                   | 3/16 x 3/32 | 104                |
| 6130/5DCY     | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 15.63 | 3.15 | 14.57 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 101                |
|               | 143-145TC      | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 15.63 | 3.15 | 15.04 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65                   | 3/16 x 3/32 | 106                |
| 6140/5DAY     | 56C            | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 15.35 | 2.99 | 14.33 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10                   | 3/16 x 3/32 | 95                 |
| 6140/5DBY     | 56C            | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 16.06 | 3.35 | 15.20 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 104                |
|               | 143-145TC      | 5.88 | 4.50 | 6.69                | 0.20 | 0.43 | 4 | 16.06 | 3.35 | 15.43 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57                   | 3/16 x 3/32 | 104                |
| 6140/5DCY     | 56C            | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 16.41 | 3.15 | 15.35 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18                   | 3/16 x 3/32 | 101                |
|               | 143-145TC      | 5.88 | 4.50 | 6.69                | -    | 0.43 | 4 | 16.41 | 3.15 | 15.82 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65                   | 3/16 x 3/32 | 106                |

Speed  
Reducers

Dimensions



## CYCLO® 6000 Speed Reducers

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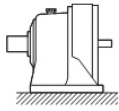
Speed  
Reducers

Dimensions

### 4.32 Dimensions

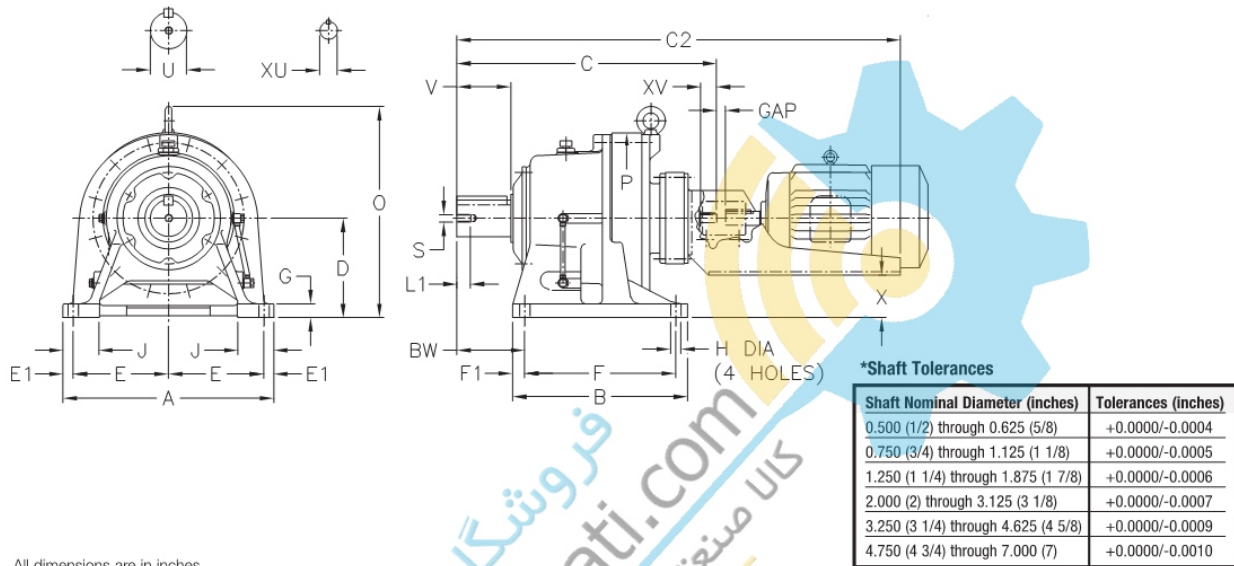
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



# Dimensions Foot Mount, Shovel Base

Double Reduction  
CHH-6160/5DCY ▶ 6190/5DBY-SB

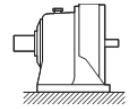


All dimensions are in inches

| Model CHH    | A     | B     | C     | D     | E    | E1   | F     | F1   | G    | H    | J    | O     | P     | BW   |
|--------------|-------|-------|-------|-------|------|------|-------|------|------|------|------|-------|-------|------|
| 6160/5DCY-SB | 16.14 | 9.37  | 18.19 | 6.299 | 7.28 | 0.79 | 5.91  | 1.73 | 0.98 | 0.71 | 2.95 | 13.74 | 11.81 | 5.47 |
| 6170/5DCY-SB | 16.93 | 13.19 | 20.04 | 7.874 | 7.48 | 0.98 | 10.83 | 1.18 | 1.18 | 0.87 | 3.15 | 16.38 | 13.39 | 4.92 |
| 6180/5DBY-SB | 18.50 | 14.96 | 22.72 | 8.661 | 8.27 | 0.98 | 12.60 | 1.18 | 1.18 | 0.87 | 3.35 | 17.76 | 14.57 | 5.71 |
| 6190/5DAY-SB | 20.87 | 17.32 | 24.76 | 9.843 | 9.45 | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 20.91 | 16.93 | 6.69 |
| 6190/5DBY-SB | 20.87 | 17.32 | 25.71 | 9.843 | 9.45 | 0.98 | 14.96 | 1.18 | 1.38 | 1.02 | 3.54 | 20.91 | 16.93 | 6.69 |

| Model CHH    | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|--------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|              | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6160/5DCY-SB | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6170/5DCY-SB | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6180/5DBY-SB | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6190/5DAY-SB | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6190/5DBY-SB | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |

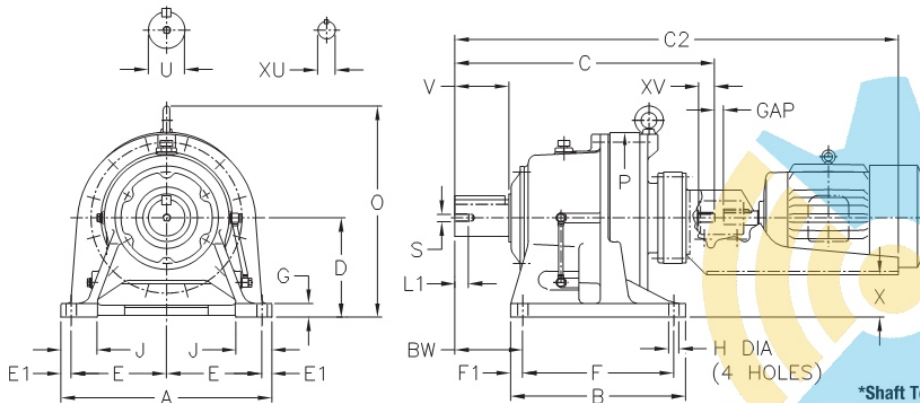
| Model CHH    | Dimensions       | 143T  | 145T | 182T  | 184T | 213T  | 215T | 254T | 256T | 284T | 286T | 324T | 326T | 364T | 365T |
|--------------|------------------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|
| 6160/5DCY-SB | C2               | 32.24 |      | 32.24 |      |       |      |      |      |      |      |      |      |      |      |
|              | GAP              | 0.50  | 0.52 | 0.71  |      |       |      |      |      |      |      |      |      |      |      |
|              | X                | 1.40  |      | 1.40  |      |       |      |      |      |      |      |      |      |      |      |
|              | Weight w/o Motor | 239   |      | 237   |      |       |      |      |      |      |      |      |      |      |      |
| 6170/5DCY-SB | C2               | 34.09 |      | 34.09 |      |       |      |      |      |      |      |      |      |      |      |
|              | GAP              | 0.50  | 0.52 | 0.71  |      |       |      |      |      |      |      |      |      |      |      |
|              | X                | 2.97  |      | 2.97  |      |       |      |      |      |      |      |      |      |      |      |
|              | Weight w/o Motor | 314   |      | 312   |      |       |      |      |      |      |      |      |      |      |      |
| 6180/5DBY-SB | C2               | 40.91 |      | 40.91 |      | 40.91 |      |      |      |      |      |      |      |      |      |
|              | GAP              | 0.50  | 0.52 | 0.71  |      | 0.88  |      |      |      |      |      |      |      |      |      |
|              | X                | 2.97  |      | 2.97  |      | 2.97  |      |      |      |      |      |      |      |      |      |
|              | Weight w/o Motor | 480   |      | 455   |      | 452   |      |      |      |      |      |      |      |      |      |
| 6190/5DAY-SB | C2               | 38.82 |      | 38.82 |      |       |      |      |      |      |      |      |      |      |      |
|              | GAP              | 0.50  | 0.52 | 0.71  |      |       |      |      |      |      |      |      |      |      |      |
|              | X                | 4.94  |      | 4.94  |      |       |      |      |      |      |      |      |      |      |      |
|              | Weight w/o Motor | 564   |      | 562   |      |       |      |      |      |      |      |      |      |      |      |
| 6190/5DBY-SB | C2               | 43.90 |      | 43.90 |      | 43.90 |      |      |      |      |      |      |      |      |      |
|              | GAP              | 0.50  | 0.52 | 0.71  |      | 0.88  |      |      |      |      |      |      |      |      |      |
|              | X                | 4.15  |      | 4.15  |      | 4.15  |      |      |      |      |      |      |      |      |      |
|              | Weight w/o Motor | 628   |      | 602   |      | 599   |      |      |      |      |      |      |      |      |      |



# Dimensions Foot Mount, Shovel Base

## Double Reduction

### CHH-6205DBY ▶ 6275DAY-SB



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CHH  | A     | B     | C     | D      | E     | E1   | F     | F1   | G    | H    | J    | O     | P     | BW    |
|------------|-------|-------|-------|--------|-------|------|-------|------|------|------|------|-------|-------|-------|
| 6205DAY-SB | 20.87 | 17.32 | 26.38 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 17.64 | 8.46  |
| 6205DBY-SB | 20.87 | 17.32 | 27.76 | 9.843  | 8.66  | 1.77 | 14.17 | 1.57 | 1.38 | 1.02 | 3.94 | 20.87 | 17.64 | 8.46  |
| 6215DAY-SB | 22.83 | 18.70 | 28.78 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.09 | 8.27  |
| 6215DBY-SB | 22.83 | 18.70 | 30.71 | 10.433 | 9.45  | 1.97 | 15.55 | 1.57 | 1.57 | 1.02 | 4.33 | 22.64 | 19.09 | 8.27  |
| 6225DAY-SB | 24.41 | 20.47 | 30.43 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 20.71 | 9.06  |
| 6225DBY-SB | 24.41 | 20.47 | 33.86 | 11.024 | 10.63 | 1.57 | 16.54 | 1.97 | 1.57 | 1.30 | 4.53 | 24.02 | 20.71 | 9.06  |
| 6235DAY-SB | 26.38 | 22.05 | 34.76 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 22.13 | 10.24 |
| 6235DBY-SB | 26.38 | 22.05 | 36.93 | 11.811 | 11.42 | 1.77 | 18.11 | 1.97 | 1.77 | 1.30 | 4.72 | 26.26 | 22.13 | 10.24 |
| 6245DAY-SB | 28.35 | 22.83 | 36.26 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 24.17 | 10.35 |
| 6245DBY-SB | 28.35 | 22.83 | 38.39 | 13.189 | 12.40 | 1.77 | 18.90 | 1.97 | 1.77 | 1.54 | 5.04 | 28.70 | 24.17 | 10.35 |
| 6255DAY-SB | 30.71 | 24.80 | 42.56 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 26.38 | 12.60 |
| 6255DBY-SB | 30.71 | 24.80 | 44.61 | 14.764 | 13.19 | 2.17 | 20.47 | 2.17 | 1.97 | 1.54 | 5.51 | 32.09 | 26.38 | 12.60 |
| 6265DAY-SB | 34.65 | 27.56 | 48.94 | 15.748 | 15.16 | 2.17 | 23.23 | 2.17 | 2.17 | 1.77 | 6.30 | 34.41 | 28.98 | 15.35 |
| 6275DAY-SB | 45.67 | 40.94 | 59.21 | 21.260 | 20.67 | 2.17 | 16.54 | 3.94 | 2.36 | 1.77 | 7.87 | 45.71 | 37.40 | 19.09 |

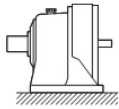
| Model CHH  | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    |
|------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|
|            | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |
| 6205DAY-SB | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6205DBY-SB | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6215DAY-SB | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6215DBY-SB | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6225DAY-SB | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6225DBY-SB | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6235DAY-SB | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6235DBY-SB | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6245DAY-SB | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6245DBY-SB | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6255DAY-SB | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6255DBY-SB | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6265DAY-SB | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6275DAY-SB | 7.000           | 13.00 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |

#### 4.34 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series





# Dimensions Foot Mount, Shovel Base

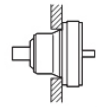
## Double Reduction CHH-6205DBY ▶ 6275DAY-SB (cont.)

All dimensions are in inches

| Model   | Dimensions       | 143T | 145T  | 182T  | 184T  | 213T  | 215T | 254T  | 256T | 284T  | 286T | 324T  | 326T |
|---------|------------------|------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|
| 6205DAY | C2               |      | 45.94 | 45.94 |       | 45.94 |      |       |      |       |      |       |      |
|         | GAP              |      | 0.52  | 0.71  |       | 0.88  |      |       |      |       |      |       |      |
|         | X                |      | 4.15  | 4.15  |       | 4.15  |      |       |      |       |      |       |      |
|         | Weight w/o Motor |      | 678   | 653   |       | 650   |      |       |      |       |      |       |      |
| 6205DBY | C2               |      | 46.97 | 46.97 |       | 46.97 |      |       |      |       |      |       |      |
|         | GAP              |      | 0.52  | 0.71  |       | 0.88  |      |       |      |       |      |       |      |
|         | X                |      | 4.74  | 4.74  |       | 4.74  |      |       |      |       |      |       |      |
|         | Weight w/o Motor |      | 857   | 832   |       | 829   |      |       |      |       |      |       |      |
| 6215DAY | C2               |      | 42.49 | 42.49 |       | 46.99 |      |       |      |       |      |       |      |
|         | GAP              |      | 0.50  | 0.75  |       | 0.88  |      |       |      |       |      |       |      |
|         | X                |      | 5.39  | 5.39  |       | 4.83  |      |       |      |       |      |       |      |
|         | Weight w/o Motor |      | 873   | 848   |       | 845   |      |       |      |       |      |       |      |
| 6215DBY | C2               |      |       |       |       | 52.13 |      | 52.13 |      |       |      |       |      |
|         | GAP              |      |       |       |       | 0.88  |      | 1.00  |      |       |      |       |      |
|         | X                |      |       |       |       | 3.76  |      | 3.76  |      |       |      |       |      |
|         | Weight w/o Motor |      |       |       |       | 894   |      | 889   |      |       |      |       |      |
| 6225DAY | C2               |      | 48.62 | 48.62 |       | 48.62 |      | 52.64 |      |       |      |       |      |
|         | GAP              |      | 0.52  | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |
|         | X                |      | 5.33  | 5.33  |       | 5.33  |      | 4.35  |      |       |      |       |      |
|         | Weight w/o Motor |      | 1022  | 997   |       | 994   |      | 1005  |      |       |      |       |      |
| 6225DBY | C2               |      |       |       |       | 52.91 |      | 58.50 |      |       |      |       |      |
|         | GAP              |      |       |       |       | 0.88  |      | 1.00  |      |       |      |       |      |
|         | X                |      |       |       |       | 5.33  |      | 3.48  |      |       |      |       |      |
|         | Weight w/o Motor |      |       |       |       | 1100  |      | 1164  |      |       |      |       |      |
| 6235DAY | C2               |      |       | 51.18 |       | 56.18 |      | 56.18 |      |       |      |       |      |
|         | GAP              |      |       | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |
|         | X                |      |       | 6.87  |       | 5.14  |      | 5.14  |      |       |      |       |      |
|         | Weight w/o Motor |      |       | 1252  |       | 1274  |      | 1269  |      |       |      |       |      |
| 6235DBY | C2               |      |       |       |       | 56.22 |      | 62.20 |      | 62.20 |      |       |      |
|         | GAP              |      |       |       |       | 0.88  |      | 1.00  |      | 1.00  |      |       |      |
|         | X                |      |       |       |       | 6.12  |      | 4.26  |      | 4.26  |      |       |      |
|         | Weight w/o Motor |      |       |       |       | 1355  |      | 1408  |      | 1400  |      |       |      |
| 6245DAY | C2               |      |       | 52.68 |       | 57.68 |      | 57.68 |      |       |      |       |      |
|         | GAP              |      |       | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |
|         | X                |      |       | 8.25  |       | 6.52  |      | 6.52  |      |       |      |       |      |
|         | Weight w/o Motor |      |       | 1490  |       | 1512  |      | 1507  |      |       |      |       |      |
| 6245DBY | C2               |      |       |       |       | 57.68 |      | 63.66 |      | 63.66 |      |       |      |
|         | GAP              |      |       |       |       | 0.88  |      | 1.00  |      | 1.00  |      |       |      |
|         | X                |      |       |       |       | 7.50  |      | 5.64  |      | 5.64  |      |       |      |
|         | Weight w/o Motor |      |       |       |       | 1584  |      | 1637  |      | 1629  |      |       |      |
| 6255DAY | C2               |      |       |       | 58.19 | 61.61 |      | 67.20 |      | 67.20 |      |       |      |
|         | GAP              |      |       |       | 0.71  | 0.88  |      | 1.00  |      | 1.00  |      |       |      |
|         | X                |      |       |       | 9.82  | 9.07  |      | 7.22  |      | 7.22  |      |       |      |
|         | Weight w/o Motor |      |       |       | 2270  | 2278  |      | 2341  |      | 2333  |      |       |      |
| 6255DBY | C2               |      |       |       |       |       |      | 67.20 |      | 72.28 |      | 72.28 |      |
|         | GAP              |      |       |       |       |       |      | 1.00  |      | 1.00  |      | 1.50  |      |
|         | X                |      |       |       |       |       |      | 8.09  |      | 6.19  |      | 6.19  |      |
|         | Weight w/o Motor |      |       |       |       |       |      | 2493  |      | 2552  |      | 2542  |      |
| 6265DAY | C2               |      |       |       |       | 71.54 |      | 71.54 |      | 76.61 |      | 76.59 |      |
|         | GAP              |      |       |       |       | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |
|         | X                |      |       |       |       | 9.07  |      | 9.07  |      | 7.18  |      | 7.18  |      |
|         | Weight w/o Motor |      |       |       |       | 3060  |      | 3055  |      | 3114  |      | 3104  |      |
| 6275DAY | C2               |      |       |       |       | 81.81 |      | 81.81 |      | 86.89 |      | 86.89 |      |
|         | GAP              |      |       |       |       | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |
|         | X                |      |       |       |       | 14.59 |      | 14.59 |      | 12.69 |      | 12.69 |      |
|         | Weight w/o Motor |      |       |       |       | 5574  |      | 5569  |      | 5628  |      | 5618  |      |

Speed Reducers

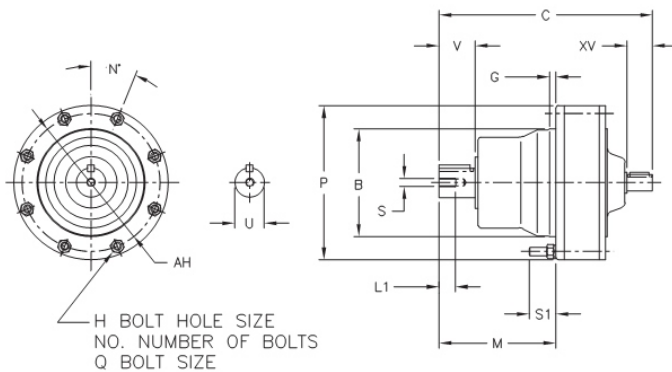
Dimensions



# Dimensions Universal F-Flange Mount

## Single Reduction

CNF-6060/5Y ▶ 6120/5Y



H BOLT HOLE SIZE  
NO. NUMBER OF BOLTS  
Q BOLT SIZE

### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

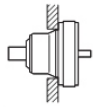
All dimensions are in inches

| Model<br>CNF | B                | C     | G    | H    | NO. | M    | N    | P    | Q   | S1   | AH   |
|--------------|------------------|-------|------|------|-----|------|------|------|-----|------|------|
| 6060/5Y      | 3.1492<br>3.1485 | 5.71  | 0.16 | 0.26 | 6   | 2.68 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6070/5Y      | 3.1492<br>3.1485 | 5.94  | 0.16 | 0.26 | 6   | 2.91 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6080/5Y      | 3.7397<br>3.7388 | 7.05  | 0.20 | 0.35 | 8   | 3.58 | 22.5 | 5.28 | M8  | 1.06 | 4.65 |
| 6090/5Y      | 4.1334<br>4.1325 | 7.95  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.14 | 5.28 |
| 6100/5Y      | 4.1334<br>4.1325 | 8.19  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.10 | 5.28 |
| 6110/5Y      | 4.5271<br>4.5262 | 8.58  | 0.24 | 0.35 | 8   | 4.65 | 22.5 | 6.38 | M8  | 1.02 | 5.75 |
| 6120/5Y      | 5.5113<br>5.5103 | 10.20 | 0.55 | 0.43 | 6   | 5.47 | 60   | 8.03 | M10 | 1.30 | 7.09 |

| Model<br>CNF | U*    | V    | Low Speed Shaft |      |  | Key                | XU*   | XV   | Key                | Approx.<br>Wt. (lb.) |
|--------------|-------|------|-----------------|------|--|--------------------|-------|------|--------------------|----------------------|
| 6060/5Y      | 0.500 | 0.98 | 10-32UNF        | 0.63 |  | 1/8 X 1/8 X .79    | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   | 7                    |
| 6070/5Y      | 0.750 | 1.18 | 12-28UNF        | 0.63 |  | 3/16 X 3/16 X 1.06 | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   | 7                    |
| 6080/5Y      | 0.875 | 1.38 | 12-28UNF        | 0.63 |  | 3/16 X 3/16 X 1.18 | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   | 18                   |
| 6090/5Y      | 1.125 | 1.38 | 5/16-18UNC      | 0.79 |  | 1/4 X 1/4 X 1.18   | 0.625 | 0.98 | 3/16 X 3/16 X 0.75 | 19                   |
| 6100/5Y      | 1.125 | 1.38 | 5/16-18UNC      | 0.79 |  | 1/4 X 1/4 X 1.18   | 0.625 | 0.98 | 3/16 X 3/16 X 0.75 | 21                   |
| 6110/5Y      | 1.250 | 1.77 | 5/16-18UNC      | 0.79 |  | 1/4 X 1/4 X 1.46   | 0.625 | 0.98 | 3/16 X 3/16 X 0.75 | 24                   |
| 6120/5Y      | 1.500 | 2.17 | 5/16-18UNC      | 0.79 |  | 3/8 X 3/8 X 1.77   | 0.750 | 1.38 | 3/16 X 3/16 X 1.02 | 44                   |

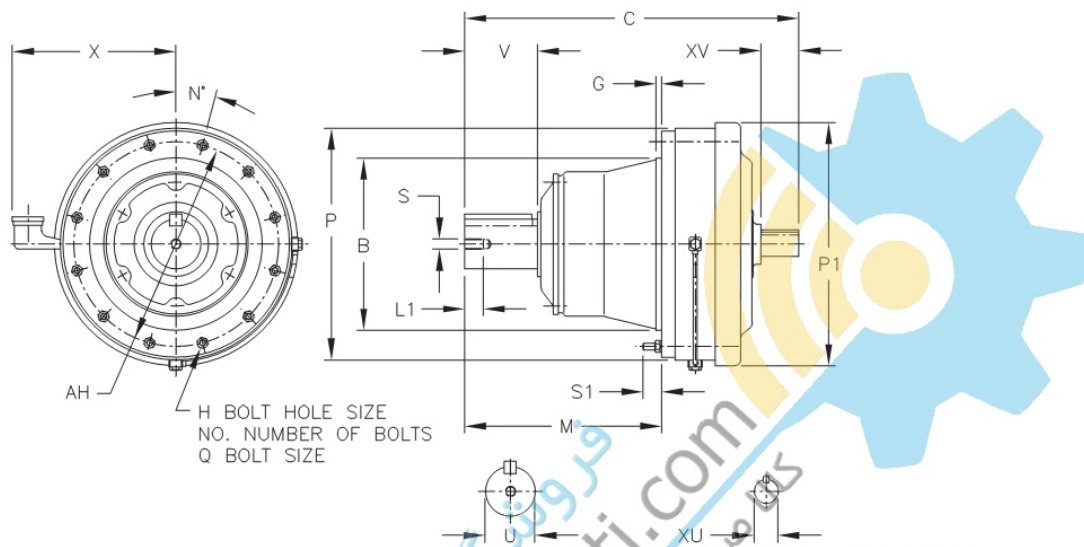
## 4.36 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified.  
Certified prints are available after receipt of an order; consult factory.



# Dimensions Horizontal F-Flange Mount

Single Reduction  
CHF-6130/5 ▶ 6190/5Y



## \*Shaft Tolerances

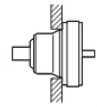
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CHF | B                  | C     | G    | H    | NO. | M     | N    | P     | P1    | Q   | S1   | AH    | X     |
|-----------|--------------------|-------|------|------|-----|-------|------|-------|-------|-----|------|-------|-------|
| 6130/5Y   | 6.4955<br>6.4945   | 12.64 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 8.19  |
| 6140/5Y   | 6.4955<br>6.4945   | 13.43 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 8.19  |
| 6160/5Y   | 7.8734<br>7.8723   | 16.26 | 0.39 | 0.55 | 6   | 8.74  | 30   | 11.81 | 12.52 | M12 | 1.38 | 10.63 | 8.98  |
| 6170/5Y   | 9.8419<br>9.8408   | 18.78 | 0.47 | 0.55 | 8   | 10.31 | 22.5 | 13.39 | 14.25 | M12 | 1.61 | 11.81 | 9.57  |
| 6180/5Y   | 11.0230<br>11.0217 | 20.75 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | 15.35 | M12 | 1.50 | 12.99 | 10.16 |
| 6190/5Y   | 12.5977<br>12.5963 | 24.41 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | 17.76 | M12 | 1.61 | 14.96 | 11.22 |

| Model CHF | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|-------------------|
|           | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                   |
| 6130/5Y   | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 79                |
| 6140/5Y   | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 82                |
| 6160/5Y   | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 146               |
| 6170/5Y   | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 212               |
| 6180/5Y   | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 289               |
| 6190/5Y   | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 430               |

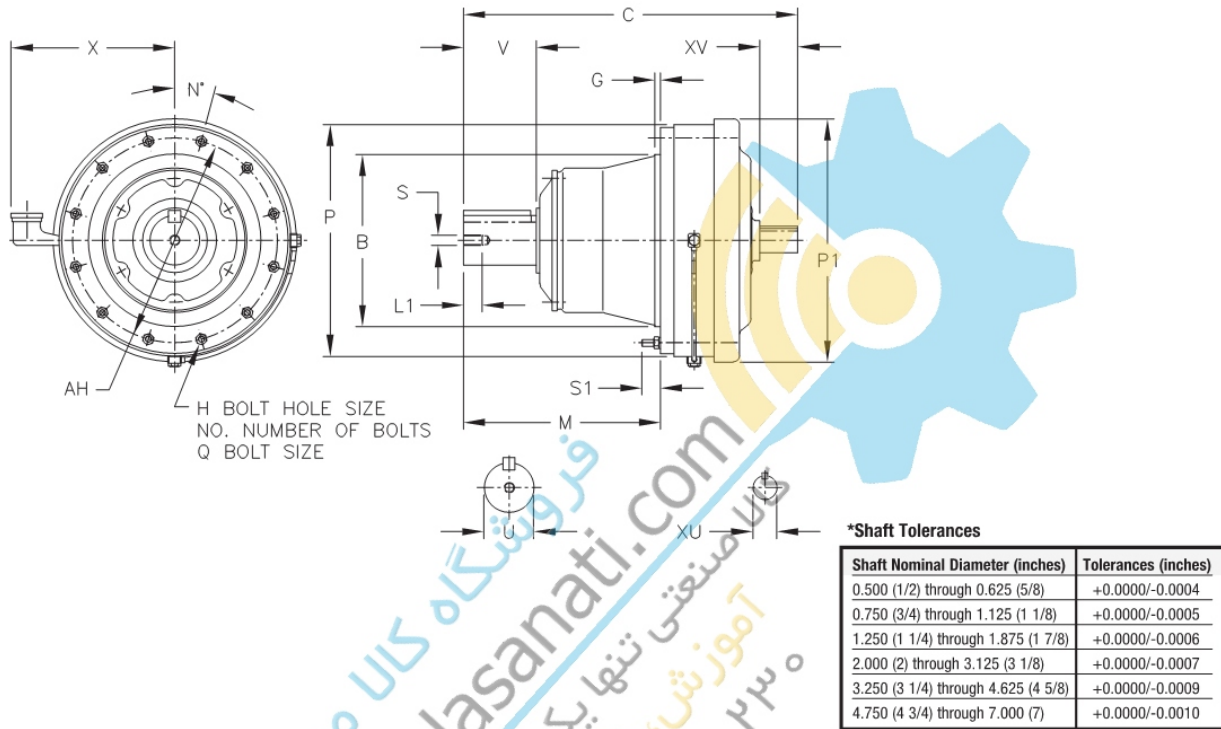




# Dimensions Horizontal F-Flange Mount

## Single Reduction

### CHF-6205Y ▶ 6265Y



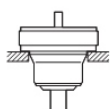
All dimensions are in inches

| Model CHF | B                  | C     | G    | H    | NO. | M     | N  | P     | P1    | Q   | S1   | AH    | X |
|-----------|--------------------|-------|------|------|-----|-------|----|-------|-------|-----|------|-------|---|
| 6205Y     | 14.1725<br>14.1711 | 26.69 | 0.79 | 0.71 | 12  | 16.14 | 15 | 17.64 | 18.54 | M16 | 2.20 | 15.94 | - |
| 6215Y     | 15.3536<br>15.3522 | 27.87 | 0.79 | 0.81 | 12  | 16.65 | 15 | 19.09 | 19.96 | M18 | 2.20 | 17.32 | - |
| 6225Y     | 16.5346<br>16.5331 | 29.61 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | 21.61 | M20 | 2.52 | 18.70 | - |
| 6235Y     | 17.9126<br>17.9110 | 33.03 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | 23.27 | M20 | 2.56 | 20.08 | - |
| 6245Y     | 19.6843<br>19.6827 | 34.53 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | 25.08 | M24 | 2.56 | 22.05 | - |
| 6255Y     | 21.2590<br>21.2572 | 40.94 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | 27.68 | M24 | 3.58 | 24.02 | - |
| 6265Y     | 22.4401<br>22.4383 | 45.28 | 1.57 | 1.34 | 12  | 28.03 | 15 | 28.98 | 30.39 | M30 | 3.35 | 25.98 | - |

| Model CHF | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                  | Approx. Wt. (lb.) |
|-----------|-----------------|-------|------------|------|----------------------|------------------|------|------------------|-------------------|
|           | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key              |                   |
| 6205Y     | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.750            | 3.23 | 3/8 X 3/8 X 3.23 | 470               |
| 6215Y     | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.875            | 3.23 | 1/2 X 1/2 X 3.23 | 644               |
| 6225Y     | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50   | 2.125            | 3.23 | 1/2 X 1/2 X 3.23 | 765               |
| 6235Y     | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13 | 944               |
| 6245Y     | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13 | 1186              |
| 6255Y     | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 | 1751              |
| 6265Y     | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 | 2249              |

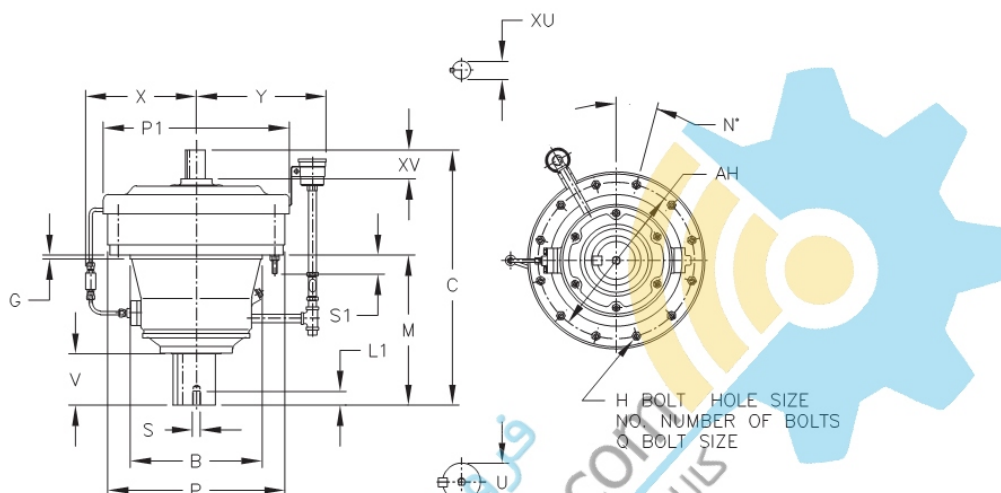
#### 4.38 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Vertical F-Flange Mount

Single Reduction  
CVF-6130/5Y ▶ 6190/5Y



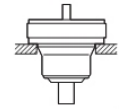
## \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CVF | B                  | C     | G    | H    | NO. | M     | N    | P     | P1    | Q   | S1   | AH    | X     | Y     |
|--------------|--------------------|-------|------|------|-----|-------|------|-------|-------|-----|------|-------|-------|-------|
| 6130/5Y      | 6.4955<br>6.4945   | 12.64 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 5.98  | 8.23  |
| 6140/5Y      | 6.4955<br>6.4945   | 13.43 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 5.98  | 8.23  |
| 6160/5Y      | 7.8734<br>7.8723   | 16.26 | 0.39 | 0.55 | 6   | 8.74  | 30   | 11.81 | 12.52 | M12 | 1.38 | 10.63 | 8.54  | 9.06  |
| 6170/5Y      | 9.8419<br>9.8408   | 18.78 | 0.47 | 0.55 | 8   | 10.31 | 22.5 | 13.39 | 14.25 | M12 | 1.61 | 11.81 | 8.74  | 10.24 |
| 6180/5Y      | 11.0230<br>11.0217 | 20.75 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | 15.35 | M12 | 1.50 | 12.99 | 9.33  | 10.24 |
| 6190/5Y      | 12.5977<br>12.5963 | 24.41 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | 17.76 | M12 | 1.61 | 14.96 | 10.43 | 10.24 |

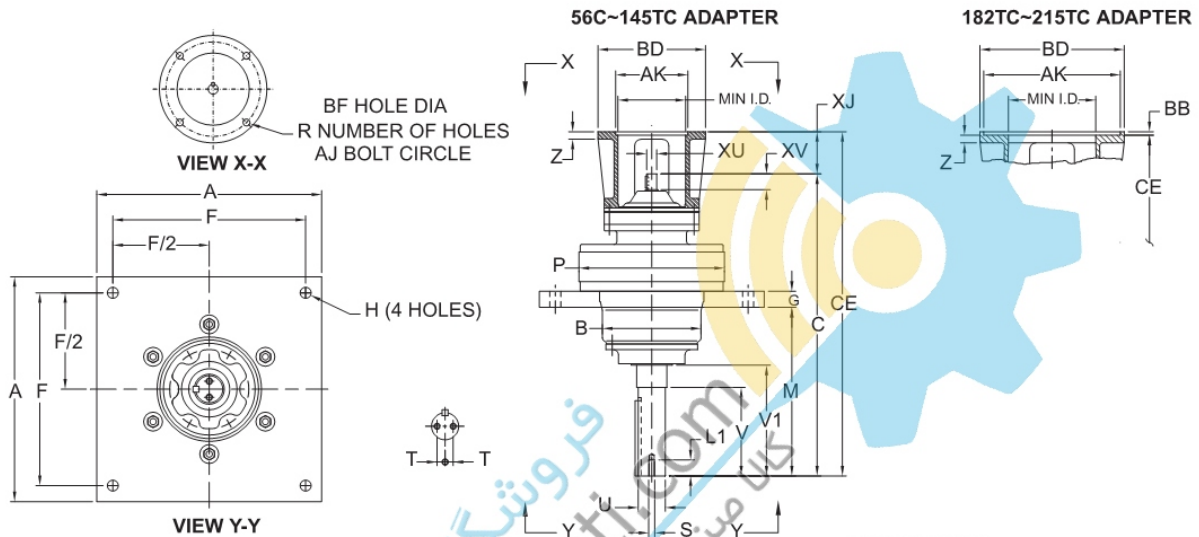
| Model<br>CVF | U*    | Low Speed Shaft<br>V | S         | L1   | Key              | High Speed Shaft<br>XU* | XV   | Key                | Approx.<br>Wt. (lb.) |
|--------------|-------|----------------------|-----------|------|------------------|-------------------------|------|--------------------|----------------------|
| 6130/5Y      | 1.875 | 2.40                 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.875                   | 1.57 | 3/16 X 3/16 X 1.38 | 79                   |
| 6140/5Y      | 1.875 | 3.19                 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875                   | 1.57 | 3/16 X 3/16 X 1.38 | 82                   |
| 6160/5Y      | 2.250 | 3.15                 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 1.125                   | 1.77 | 1/4 X 1/4 X 1.77   | 146                  |
| 6170/5Y      | 2.750 | 3.31                 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 1.375                   | 2.17 | 5/16 X 5/16 X 2.16 | 212                  |
| 6180/5Y      | 3.125 | 3.94                 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 1.500                   | 2.56 | 3/8 X 3/8 X 2.56   | 289                  |
| 6190/5Y      | 3.625 | 4.92                 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 1.750                   | 2.76 | 3/8 X 3/8 X 2.76   | 430                  |



# Dimensions Vertical F-Flange Mount, C-Face, Overhead Drive

## Single Reduction

CVFJ-6130/5Y ▶ 6180/5Y



### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CVFJ | Model DVX | A     | B    | C     | F     | G    | H    | M     | P     |
|------------|-----------|-------|------|-------|-------|------|------|-------|-------|
| 6130/5Y    | 35DVX     | 12.50 | 6.14 | 16.02 | 10.50 | 0.88 | 0.56 | 9.50  | 9.06  |
| 6140/5Y    | 40DVX     | 14.00 | 6.14 | 17.15 | 12.00 | 1.00 | 0.69 | 10.50 | 9.06  |
| 6160/5Y    | 50DVX     | 16.00 | 6.77 | 18.22 | 14.00 | 1.46 | 0.81 | 10.50 | 11.81 |
| 6170/5Y    | 60DVX     | 19.50 | 8.50 | 24.56 | 17.00 | 1.65 | 0.94 | 15.50 | 13.39 |
| 6180/5Y    | 70DVX     | 22.00 | 9.06 | 26.03 | 19.00 | 1.75 | 1.12 | 15.50 | 14.57 |

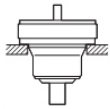
| Model CVFJ | Model DVX | T    | U      | V    | Low Speed Shaft V1 | S          | L1   | Key              | High Speed Shaft XU | XV   | Key                |
|------------|-----------|------|--------|------|--------------------|------------|------|------------------|---------------------|------|--------------------|
| 6130/5Y    | 35DVX     | 0.38 | 1.6250 | 4.50 | 5.76               | 5/16-18UNC | 1.00 | 3/8x 3/8 X 3.70  | 0.875               | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y    | 40DVX     | 0.50 | 1.6875 | 5.50 | 6.89               | 3/8-16UNC  | 1.00 | 3/8 X 3/8 X 4.69 | 0.875               | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5Y    | 50DVX     | 0.75 | 2.1875 | 5.50 | -                  | 3/8-16UNC  | 1.00 | 1/2 X 1/2 X 5.24 | 1.125               | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y    | 60DVX     | 0.75 | 2.4375 | 7.50 | -                  | 3/8-16UNC  | 1.00 | 5/8 X 5/8 X 6.50 | 1.375               | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y    | 70DVX     | 1.00 | 2.9375 | 7.50 | 9.22               | 3/8-16UNC  | 1.00 | 3/4 X 3/4 X 6.50 | 1.500               | 2.56 | 3/8 X 3/8 X 2.56   |

### 4.40 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series





## Dimensions Vertical F-Flange Mount, C-Face, Overhead Drive

### Single Reduction

### CVFJ-6130/5Y ▶ 6180/5Y (cont.)

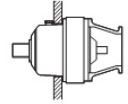
All dimensions are in inches

| Model<br>CVFJ | Motor<br>Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|------|------|---|-------|------|------|--------------|--------------------|
| 6130/5Y       | 56C~145TC      | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 18.64 | 2.63 | 0.47 | 4.21         | 133                |
| 6140/5Y       | 56C~145TC      | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 19.77 | 2.63 | 0.47 | 4.21         | 151                |
| 6160/5Y       | 56C~145TC      | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 20.85 | 2.63 | 0.47 | 4.21         | 260                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 21.59 | 3.37 | 0.57 | 5.71         | 265                |
| 6170/5Y       | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 27.94 | 3.38 | 0.57 | 5.71         | 425                |
|               | 213TC~215TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 28.56 | 4.00 | 1.20 | 5.71         | 432                |
| 6180/5Y       | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 29.53 | 3.50 | 0.57 | 5.71         | 588                |
|               | 213TC~215TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 30.03 | 4.00 | 1.10 | 5.71         | 593                |

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Speed  
Reducers

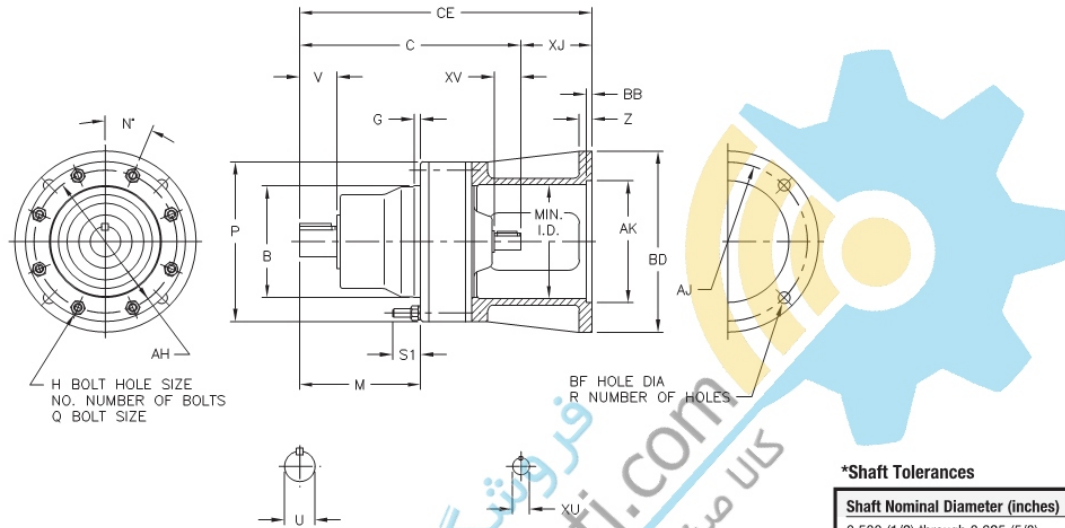
Dimensions



# Dimensions Universal F-Flange Mount, C-Face

## Single Reduction

CNFJ-6060/5Y ▶ 6120/5Y



### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

Speed  
Reducers

Dimensions

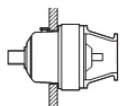
| Model<br>CNFJ | B      | C     | G    | H    | NO. | M    | N    | P    | Q   | S1   | AH   |
|---------------|--------|-------|------|------|-----|------|------|------|-----|------|------|
| 6060/5Y       | 3.1492 | 5.71  | 0.16 | 0.26 | 6   | 2.68 | 60   | 4.33 | M6  | 0.83 | 3.86 |
|               | 3.1485 |       |      |      |     |      |      |      |     |      |      |
| 6070/5Y       | 3.1492 | 5.94  | 0.16 | 0.26 | 6   | 2.91 | 60   | 4.33 | M6  | 0.83 | 3.86 |
|               | 3.1485 |       |      |      |     |      |      |      |     |      |      |
| 6080/5Y       | 3.7397 | 7.05  | 0.20 | 0.35 | 8   | 3.58 | 22.5 | 5.28 | M8  | 1.06 | 4.65 |
|               | 3.7388 |       |      |      |     |      |      |      |     |      |      |
| 6090/5Y       | 4.1334 | 7.95  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.14 | 5.28 |
|               | 4.1325 |       |      |      |     |      |      |      |     |      |      |
| 6100/5Y       | 4.1334 | 8.19  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.10 | 5.28 |
|               | 4.1325 |       |      |      |     |      |      |      |     |      |      |
| 6110/5Y       | 4.5271 | 8.58  | 0.24 | 0.35 | 8   | 4.65 | 22.5 | 6.38 | M8  | 1.02 | 5.75 |
|               | 4.5262 |       |      |      |     |      |      |      |     |      |      |
| 6120/5Y       | 5.5113 | 10.20 | 0.55 | 0.43 | 6   | 5.47 | 60   | 8.03 | M10 | 1.30 | 7.09 |
|               | 5.5103 |       |      |      |     |      |      |      |     |      |      |

| Model<br>CNFJ | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    |
|---------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|
|               | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |
| 6060/5Y       | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X .79    | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6070/5Y       | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6080/5Y       | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6090/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6100/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6110/5Y       | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6120/5Y       | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |

### 4.42 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



## Dimensions Universal F-Flange Mount, C-Face

### Single Reduction CNFJ-6060/5Y ▶ 6120/5Y (cont.)

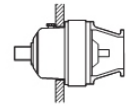
All dimensions are in inches

| Model<br>CNFJ | Motor<br>Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|------|------|---|-------|------|------|--------------|--------------------|
| 6060/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.49  | 1.78 | 0.47 | 2.44         | 9.6                |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.87  | 2.16 | 0.47 | 2.44         | 9.8                |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 8.27  | 2.56 | 0.47 | 3.15         | 12                 |
| 6070/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.72  | 1.78 | 0.47 | 2.44         | 9.6                |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 8.10  | 2.16 | 0.47 | 2.44         | 9.8                |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 8.50  | 2.56 | 0.47 | 3.15         | 12                 |
| 6080/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 8.79  | 1.74 | 0.39 | 2.44         | 22                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 9.17  | 2.12 | 0.39 | 2.44         | 22                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 9.63  | 2.58 | 0.47 | 4.21         | 23                 |
| 6090/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 9.73  | 1.78 | 0.47 | 2.44         | 23                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 10.11 | 2.16 | 0.47 | 2.44         | 24                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 10.58 | 2.63 | 0.47 | 4.21         | 26                 |
| 6100/5Y       | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 10.35 | 2.16 | 0.47 | 2.44         | 26                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 10.81 | 2.63 | 0.47 | 4.21         | 28                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 11.64 | 3.45 | 0.47 | 5.43         | 32                 |
| 6110/5Y       | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 11.20 | 2.62 | 0.47 | 4.21         | 31                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 12.03 | 3.44 | 0.47 | 5.43         | 36                 |
| 6120/5Y       | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 12.82 | 2.63 | 0.47 | 4.21         | 54                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 13.57 | 3.37 | 0.47 | 5.43         | 57                 |

Speed  
Reducers

Dimensions

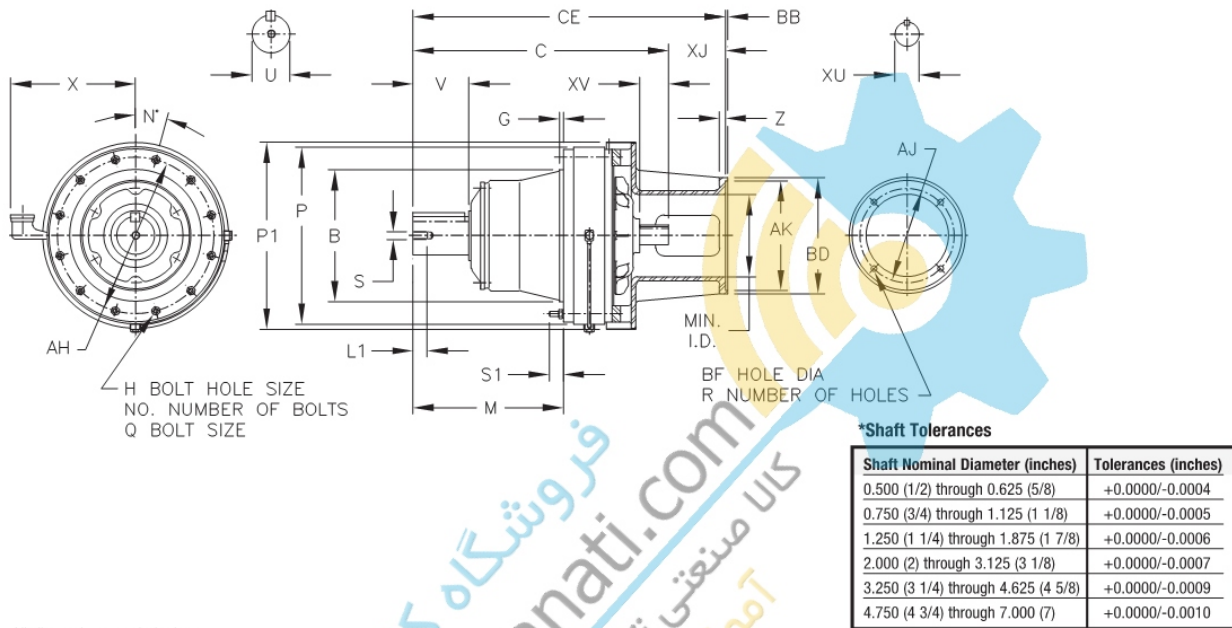




# Dimensions Horizontal F-Flange Mount, C-Face

## Single Reduction

### CHFJ-6130/5Y ▶ 6215Y



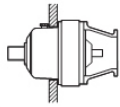
All dimensions are in inches

| Model CHFJ | B       | C     | G    | H    | NO. | M     | N    | P     | P1    | Q   | S1   | AH    | X     |
|------------|---------|-------|------|------|-----|-------|------|-------|-------|-----|------|-------|-------|
| 6130/5Y    | 6.4955  | 12.64 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 8.19  |
|            | 6.4945  |       |      |      |     |       |      |       |       |     |      |       |       |
| 6140/5Y    | 6.4955  | 13.43 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | 9.06  | M10 | 1.22 | 8.07  | 8.19  |
|            | 6.4945  |       |      |      |     |       |      |       |       |     |      |       |       |
| 6160/5Y    | 7.8734  | 16.26 | 0.39 | 0.55 | 6   | 8.74  | 30   | 11.81 | 12.52 | M12 | 1.38 | 10.63 | 8.98  |
|            | 7.8723  |       |      |      |     |       |      |       |       |     |      |       |       |
| 6170/5Y    | 9.8419  | 18.78 | 0.47 | 0.55 | 8   | 10.31 | 22.5 | 13.39 | 14.25 | M12 | 1.61 | 11.81 | 9.57  |
|            | 9.8408  |       |      |      |     |       |      |       |       |     |      |       |       |
| 6180/5Y    | 11.0230 | 20.75 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | 15.35 | M12 | 1.50 | 12.99 | 10.16 |
|            | 11.0217 |       |      |      |     |       |      |       |       |     |      |       |       |
| 6190/5Y    | 12.5977 | 24.41 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | 17.76 | M12 | 1.61 | 14.96 | 11.22 |
|            | 12.5963 |       |      |      |     |       |      |       |       |     |      |       |       |
| 6205Y      | 14.1725 | 26.69 | 0.79 | 0.71 | 12  | 16.14 | 15   | 17.64 | 18.54 | M16 | 2.20 | 15.94 | -     |
|            | 14.1711 |       |      |      |     |       |      |       |       |     |      |       |       |
| 6215Y      | 15.3536 | 27.87 | 0.79 | 0.81 | 12  | 16.65 | 15   | 19.09 | 19.96 | M18 | 2.20 | 17.32 | -     |
|            | 15.3522 |       |      |      |     |       |      |       |       |     |      |       |       |

| Model CHFJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|            | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6130/5Y    | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y    | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5Y    | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y    | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y    | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y    | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205Y      | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |
| 6215Y      | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   |

#### 4.44 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Horizontal F-Flange Mount, C-Face

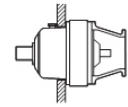
### Single Reduction CHFJ-6130/5Y ▶ 6215Y (cont.)

All dimensions are in inches

| Model CHFJ | Motor Frame   | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|---------------|-------|--------|-------|------|------|---|-------|------|------|-----------|-----------------|
| 6130/5Y    | 56C~145TC     | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 15.26 | 2.63 | 0.47 | 4.21      | 92              |
|            | 182TC~184TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 16.01 | 3.37 | 0.47 | 5.43      | 95              |
|            | 213~215TC     | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 16.64 | 4.00 | 1.10 | 5.43      | 103             |
|            | 254~256TC     | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 17.57 | 4.93 | 0.57 | 5.08      | 104             |
| 6140/5Y    | 56C~145TC     | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 16.05 | 2.63 | 0.47 | 4.21      | 94              |
|            | 182TC~184TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 16.80 | 3.37 | 0.47 | 5.43      | 97              |
|            | 213TC~215TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 17.43 | 4.00 | 1.10 | 5.43      | 105             |
|            | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 18.35 | 4.93 | 0.57 | 5.08      | 106             |
| 6160/5Y    | 56C~145TC     | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 18.89 | 2.63 | 0.47 | 4.21      | 187             |
|            | 182TC~184TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 19.63 | 3.37 | 0.57 | 5.71      | 192             |
|            | 213TC~215TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 20.26 | 4.00 | 1.20 | 5.71      | 199             |
|            | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 21.01 | 4.75 | 0.57 | 5.71      | 194             |
| 6170/5Y    | 182TC~184TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 22.16 | 3.38 | 0.57 | 5.71      | 250             |
|            | 213TC~215TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 22.78 | 4.00 | 1.20 | 5.71      | 257             |
|            | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 23.53 | 4.75 | 0.57 | 5.71      | 252             |
|            | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 24.22 | 5.44 | 0.57 | 7.87      | 263             |
| 6180/5Y    | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 24.78 | 6.00 | 0.57 | 7.87      | 283             |
|            | 182TC~184TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 24.25 | 3.50 | 0.57 | 5.71      | 337             |
|            | 213TC~215TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 24.75 | 4.00 | 1.07 | 5.71      | 342             |
|            | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 25.50 | 4.75 | 0.57 | 5.71      | 351             |
| 6190/5Y    | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 26.19 | 5.44 | 0.57 | 7.87      | 345             |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 27.25 | 6.50 | 0.57 | 7.87      | 349             |
|            | 213TC~215TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 28.54 | 4.13 | 1.29 | 5.71      | 500             |
|            | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 29.16 | 4.75 | 0.57 | 5.71      | 493             |
| 6205Y      | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 29.85 | 5.44 | 0.57 | 7.87      | 502             |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 30.91 | 6.50 | 0.57 | 7.87      | 527             |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 33.92 | 7.22 | 0.57 | 8.27      | 590             |
|            | 364TSC~365TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 31.79 | 5.10 | 0.57 | 8.27      | 582             |
| 6215Y      | 254TC~256TC   | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 32.63 | 4.75 | 0.57 | 5.91      | 753             |
|            | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 33.26 | 5.38 | 0.57 | 6.89      | 758             |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 34.37 | 6.50 | 0.57 | 8.27      | 783             |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.12 | 7.24 | 0.57 | 8.46      | 776             |
| 6215Y      | 364TSC~365TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 32.99 | 5.12 | 0.57 | 8.46      | 772             |

Speed Reducers

Dimensions



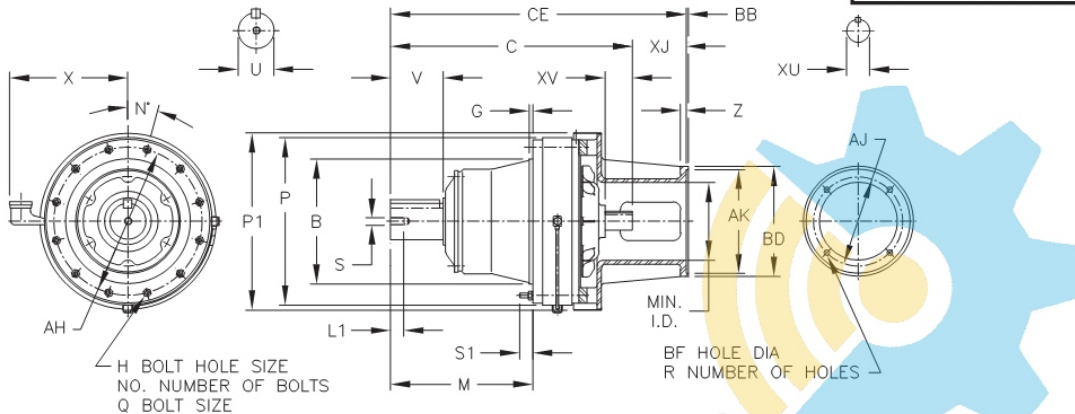
## Dimensions Horizontal F-Flange Mount, C-Face

### Single Reduction

### CHFJ-6225Y ▶ 6265Y

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |



All dimensions are in inches

| Model CHFJ | B                  | C     | G    | H    | NO. | M     | N  | P     | P1    | Q   | S1   | AH    | X |
|------------|--------------------|-------|------|------|-----|-------|----|-------|-------|-----|------|-------|---|
| 6225Y      | 16.5346<br>16.5331 | 29.61 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | 21.61 | M20 | 2.52 | 18.70 | - |
| 6235Y      | 17.9126<br>17.9110 | 33.03 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | 23.27 | M20 | 2.56 | 20.08 | - |
| 6245Y      | 19.6843<br>19.6827 | 34.53 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | 25.08 | M24 | 2.56 | 22.05 | - |
| 6255Y      | 21.2590<br>21.2572 | 40.94 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | 27.68 | M24 | 3.58 | 24.02 | - |
| 6265Y      | 22.4401            | 45.28 | 1.57 | 1.34 | 12  | 28.03 | 15 | 28.98 | 30.39 | M30 | 3.35 | 25.98 | - |

Speed Reducers

Dimensions

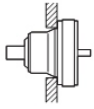
| Model<br>CHFJ | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                  |
|---------------|-----------------|-------|------------|------|----------------------|------------------|------|------------------|
|               | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key              |
| 6225Y         | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50   | 2.125            | 3.23 | 1/2 X 1/2 X 3.23 |
| 6235Y         | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13 |
| 6245Y         | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13 |
| 6255Y         | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |
| 6265Y         | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |

| Model CHFJ | Motor Frame   | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|---------------|-------|--------|-------|------|------|---|-------|------|------|-----------|-----------------|
| 6225Y      | 254TC~256TC   | 7.25  | 8.500  | 11.10 | 0.22 | 0.55 | 4 | 34.37 | 4.76 | 0.57 | 5.51      | 907             |
|            | 284TC~286TC   | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 35.00 | 5.39 | 0.57 | 6.30      | 906             |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 36.11 | 6.50 | 0.57 | 8.46      | 917             |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 36.85 | 7.24 | 0.57 | 8.46      | 919             |
|            | 364TSC~365TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 34.74 | 5.14 | 0.57 | 8.46      | 911             |
|            | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 38.23 | 8.63 | 0.57 | 8.46      | 926             |
| 6235Y      | 404TSC~405TSC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.24 | 5.63 | 0.57 | 8.46      | 913             |
|            | 324TC~326TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 39.57 | 6.54 | 0.57 | 8.66      | 1116            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 39.57 | 6.54 | 0.57 | 8.66      | 1116            |
| 6245Y      | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.69 | 8.66 | 0.57 | 8.46      | 1138            |
|            | 324TC~326TC   | 11.00 | 12.500 | 14.57 | 0.22 | 0.71 | 4 | 41.06 | 6.54 | 0.57 | 8.27      | 1431            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.77 | 7.24 | 0.57 | 8.46      | 1424            |
| 6255Y      | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 43.15 | 8.63 | 0.57 | 8.46      | 1418            |
|            | 364TC~365TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 48.20 | 7.25 | 0.57 | 9.45      | 2032            |
|            | 404TC~405TC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 49.57 | 8.63 | 0.57 | 9.45      | 2063            |
| 6265Y      | 364TC~365TC   | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 52.52 | 7.24 | 0.57 | 9.45      | 2596            |
|            | 404TC~405TC   | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 53.91 | 8.63 | 0.57 | 9.45      | 2627            |

#### 4.46 Dimensions

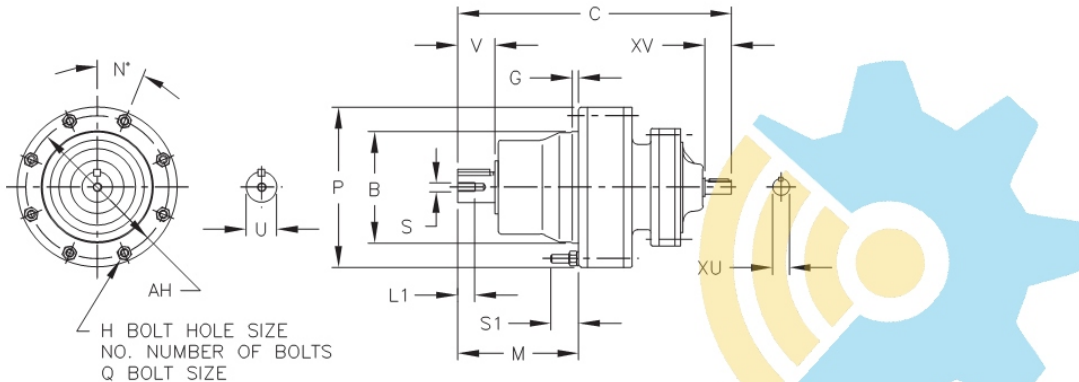
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.





# Dimensions Universal F-Flange Mount

Double Reduction  
CNF-6060/5DAY ▶ 6120/5DBY



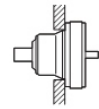
\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CNF | B                | C     | G    | H    | NO. | M    | N    | P    | Q   | S1   | AH   |
|--------------|------------------|-------|------|------|-----|------|------|------|-----|------|------|
| 6060/5DAY    | 3.1492<br>3.1485 | 7.01  | 0.16 | 0.26 | 6   | 2.68 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6070/5DAY    | 3.1492<br>3.1485 | 7.24  | 0.16 | 0.26 | 6   | 2.91 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6090/5DAY    | 4.1334<br>4.1325 | 9.57  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.14 | 5.28 |
| 6100/5DAY    | 4.1334<br>4.1325 | 10.12 | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.10 | 5.28 |
| 6120/5DBY    | 5.5113<br>5.5103 | 12.28 | 0.55 | 0.43 | 6   | 5.47 | 60   | 8.03 | M10 | 1.30 | 7.09 |

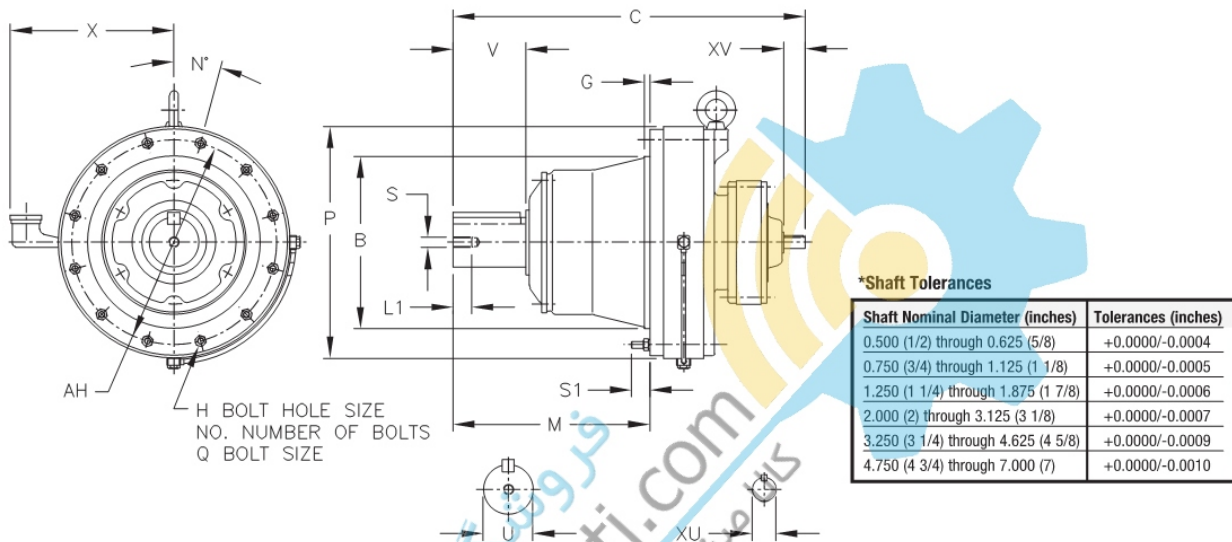
| Model<br>CNF | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|----------------------|
|              | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |                      |
| 6060/5DAY    | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X .79    | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 10                   |
| 6070/5DAY    | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 10                   |
| 6090/5DAY    | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 22                   |
| 6100/5DAY    | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 26                   |
| 6120/5DBY    | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 55                   |



# Dimensions Horizontal F-Flange Mount

## Double Reduction

### CHF-6130/5DAY ▶ 6180/5DBY



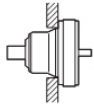
All dimensions are in inches

| Model CHF | B                  | C     | G    | H    | NO. | M     | N    | P     | Q   | S1   | AH    | X     |
|-----------|--------------------|-------|------|------|-----|-------|------|-------|-----|------|-------|-------|
| 6130/5DAY | 6.4955<br>6.4945   | 13.66 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6130/5DBY | 6.4955<br>6.4945   | 14.29 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6130/5DCY | 6.4955<br>6.4945   | 14.53 | 0.63 | 0.43 | 6   | 7.01  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6140/5DAY | 6.4955<br>6.4945   | 14.45 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6140/5DBY | 6.4955<br>6.4945   | 15.08 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6140/5DCY | 6.4955<br>6.4945   | 15.31 | 0.63 | 0.43 | 6   | 7.80  | 60   | 9.06  | M10 | 1.22 | 8.07  | -     |
| 6160/5DCY | 7.8734<br>7.8723   | 18.19 | 0.39 | 0.55 | 6   | 8.74  | 30   | 11.81 | M12 | 1.38 | 10.63 | 8.98  |
| 6170/5DCY | 9.8419<br>9.8408   | 20.04 | 0.47 | 0.55 | 8   | 10.31 | 22.5 | 13.39 | M12 | 1.61 | 11.81 | 9.57  |
| 6180/5DBY | 11.0230<br>11.0217 | 22.72 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | M12 | 1.50 | 12.99 | 10.16 |

| Model CHF | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|-------------------|
|           | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                   |
| 6130/5DAY | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 80                |
| 6130/5DBY | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 86                |
| 6130/5DCY | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 88                |
| 6140/5DAY | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 80                |
| 6140/5DBY | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 86                |
| 6140/5DCY | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 89                |
| 6160/5DCY | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 181               |
| 6170/5DCY | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 232               |
| 6180/5DBY | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 322               |

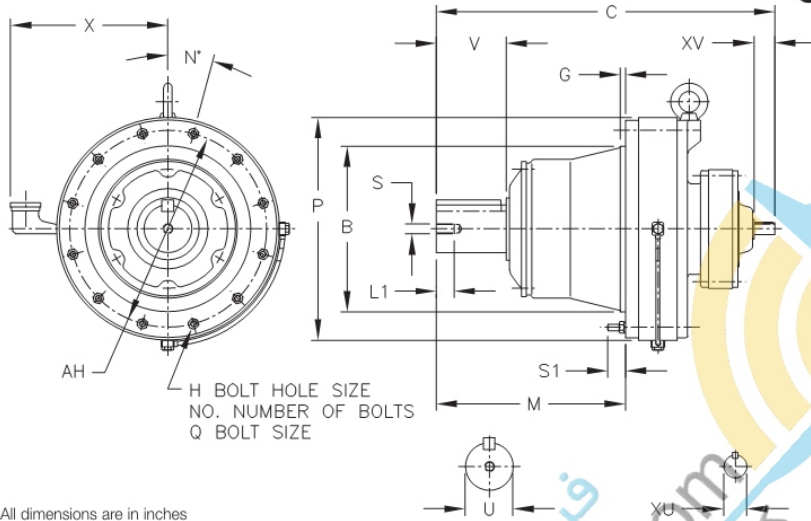
#### 4.48 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Horizontal F-Flange Mount

Double Reduction  
CHF-6190/5DAY ▶ 6225DBY



\*Shaft Tolerances

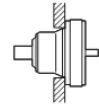
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CHF | B                  | C     | G    | H    | NO. | M     | N  | P     | Q   | S1   | AH    | X     |
|-----------|--------------------|-------|------|------|-----|-------|----|-------|-----|------|-------|-------|
| 6190/5DAY | 12.5977<br>12.5963 | 24.76 | 0.39 | 0.55 | 12  | 14.37 | 15 | 16.93 | M12 | 1.61 | 14.96 | 11.22 |
| 6190/5DBY | 12.5977<br>12.5963 | 25.71 | 0.39 | 0.55 | 12  | 14.37 | 15 | 16.93 | M12 | 1.61 | 14.96 | 11.22 |
| 6205DAY   | 14.1725<br>14.1711 | 26.38 | 0.79 | 0.71 | 12  | 16.14 | 15 | 17.64 | M16 | 2.20 | 15.94 | -     |
| 6205DBY   | 14.1725<br>14.1711 | 27.76 | 0.79 | 0.71 | 12  | 16.14 | 15 | 17.64 | M16 | 2.20 | 15.94 | -     |
| 6215DAY   | 15.3536<br>15.3522 | 28.78 | 0.79 | 0.81 | 12  | 16.65 | 15 | 19.09 | M18 | 2.20 | 17.32 | -     |
| 6215DBY   | 15.3536<br>15.3522 | 30.71 | 0.79 | 0.81 | 12  | 16.65 | 15 | 19.09 | M18 | 2.20 | 17.32 | -     |
| 6225DAY   | 16.5346<br>16.5331 | 30.43 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | M20 | 2.52 | 18.70 | -     |
| 6225DBY   | 16.5346<br>16.5331 | 33.86 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | M20 | 2.52 | 18.70 | -     |

| Model CHF | Low Speed Shaft |      |           |      |                    | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|------|-----------|------|--------------------|------------------|------|--------------------|-------------------|
|           | U*              | V    | S         | L1   | Key                | XU*              | XV   | Key                |                   |
| 6190/5DAY | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92   | 0.750            | 1.38 | 3/16 X 3/16 X1.02  | 443               |
| 6190/5DBY | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92   | 0.875            | 1.57 | 3/16 X 3/16 X1.38  | 452               |
| 6205DAY   | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 0.750            | 1.38 | 3/16 X 3/16 X1.02  | 478               |
| 6205DBY   | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 0.875            | 1.57 | 3/16 X 3/16 X1.38  | 501               |
| 6215DAY   | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 0.875            | 1.57 | 3/16 X 3/16 X1.38  | 675               |
| 6215DBY   | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 723               |
| 6225DAY   | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.50 | 0.875            | 1.57 | 3/16 X 3/16 X1.38  | 787               |
| 6225DBY   | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.50 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 891               |

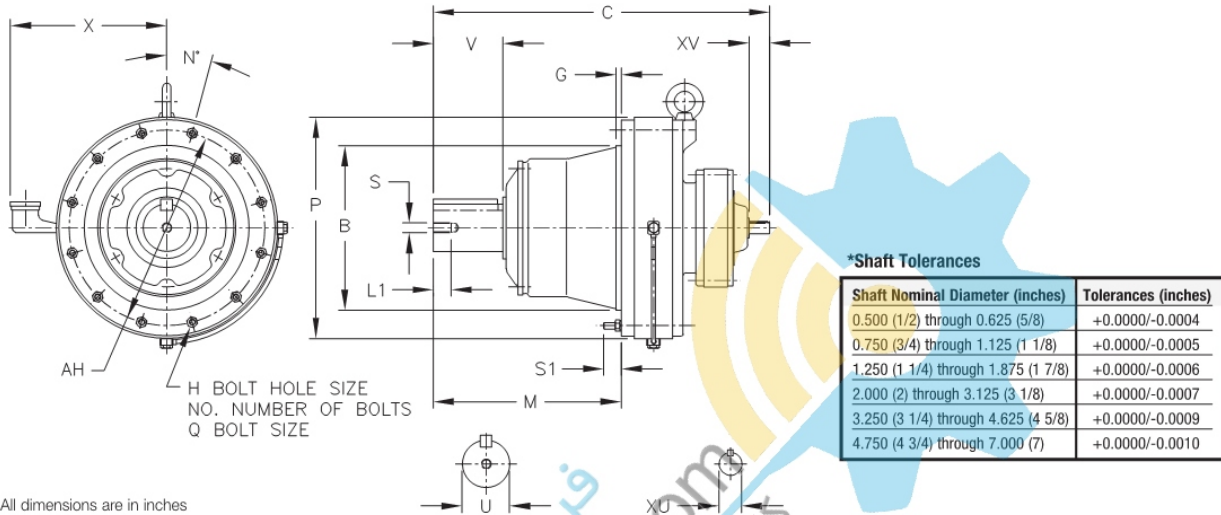




# Dimensions Horizontal F-Flange Mount

## Double Reduction

### CHF-6235DAY ▶ 6265DAY



| Model CHF | B                  | C     | G    | H    | NO. | M     | N  | P     | Q   | S1   | AH    | X |
|-----------|--------------------|-------|------|------|-----|-------|----|-------|-----|------|-------|---|
| 6235DAY   | 17.9126<br>17.9110 | 34.76 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | M20 | 2.56 | 20.08 | - |
| 6235DBY   | 17.9126<br>17.9110 | 36.93 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | M20 | 2.56 | 20.08 | - |
| 6245DAY   | 19.6843<br>19.6827 | 36.26 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | M24 | 2.56 | 22.05 | - |
| 6245DBY   | 19.6843<br>19.6827 | 38.39 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | M24 | 2.56 | 22.05 | - |
| 6255DAY   | 21.2590<br>21.2572 | 42.56 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | M24 | 3.58 | 24.02 | - |
| 6255DBY   | 21.2590<br>21.2572 | 44.61 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | M24 | 3.58 | 24.02 | - |
| 6265DAY   | 22.4401<br>22.4383 | 48.94 | 1.57 | 1.34 | 12  | 28.03 | 15 | 28.98 | M30 | 3.35 | 25.98 | - |

| Model CHF | Low Speed Shaft |       |            |      |                       | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|-------|------------|------|-----------------------|------------------|------|--------------------|-------------------|
|           | U*              | V     | S          | L1   | Key                   | XU*              | XV   | Key                |                   |
| 6235DAY   | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 1032              |
| 6235DBY   | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 1103              |
| 6245DAY   | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 1266              |
| 6245DBY   | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 1330              |
| 6255DAY   | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45      | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 1868              |
| 6255DBY   | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45      | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 2042              |
| 6265DAY   | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.80 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 2580              |

## 4.50 Dimensions

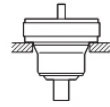
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

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Speed  
Reducers

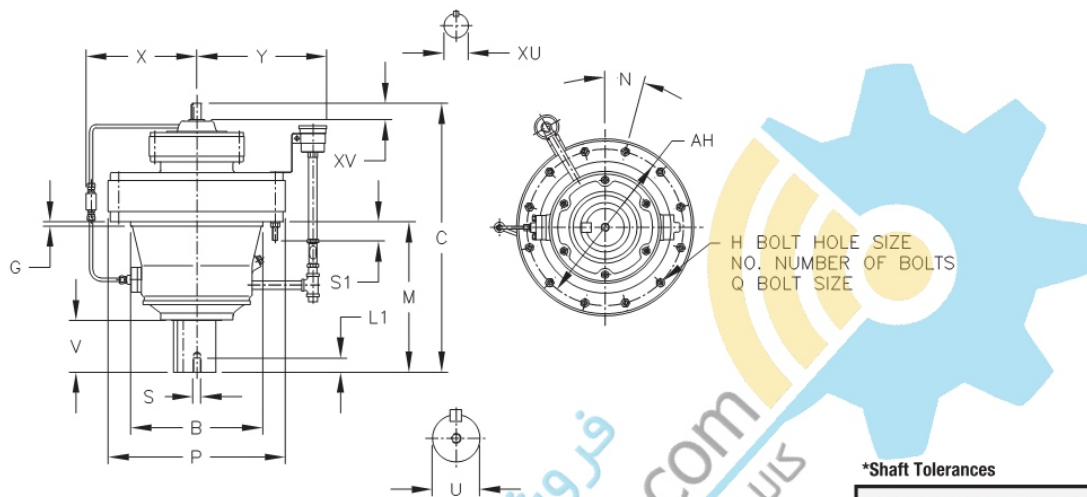
Dimensions



# Dimensions Vertical F-Flange Mount

## Double Reduction

### CVF-6130/5DAY ▶ CVF-6140/5DCY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

Speed  
Reducers

Dimensions

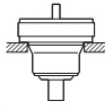
| Model<br>CVF | B                | C     | G    | H    | NO. | M    | N  | P    | Q   | S1   | AH   | X | Y |
|--------------|------------------|-------|------|------|-----|------|----|------|-----|------|------|---|---|
| 6130/5DAY    | 6.4955<br>6.4945 | 13.66 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |
| 6130/5DBY    | 6.4955<br>6.4945 | 14.29 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |
| 6130/5DCY    | 6.4955<br>6.4945 | 14.53 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |
| 6140/5DAY    | 6.4955<br>6.4945 | 14.45 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |
| 6140/5DBY    | 6.4955<br>6.4945 | 15.08 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |
| 6140/5DCY    | 6.4955<br>6.4945 | 15.31 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06 | M10 | 1.22 | 8.07 | - | - |

| Model<br>CVF | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|----------------------|
|              | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                      |
| 6130/5DAY    | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 80                   |
| 6130/5DBY    | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 86                   |
| 6130/5DCY    | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 88                   |
| 6140/5DAY    | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 80                   |
| 6140/5DBY    | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 86                   |
| 6140/5DCY    | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 89                   |

#### 4.52 Dimensions

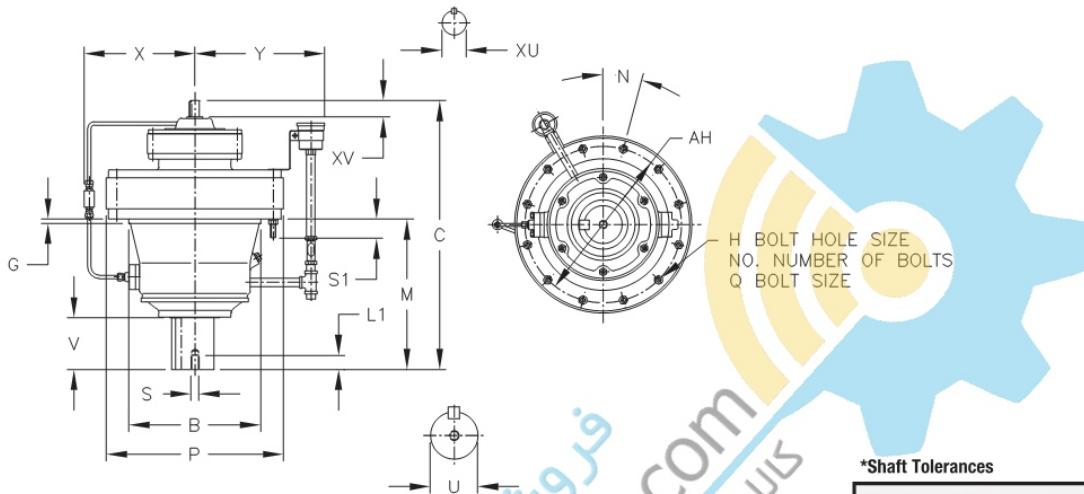
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.





# Dimensions Vertical F-Flange Mount

Double Reduction  
CVF-6160/5DCY ▶ 6190/5DBY



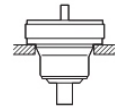
\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CVF | B                  | C     | G    | H    | NO. | M     | N    | P     | Q   | S1   | AH    | X     | Y     |
|--------------|--------------------|-------|------|------|-----|-------|------|-------|-----|------|-------|-------|-------|
| 6160/5DCY    | 7.8734<br>7.8723   | 18.19 | 0.39 | 0.55 | 6   | 8.74  | 30   | 11.81 | M12 | 1.38 | 10.63 | 7.72  | 9.06  |
| 6170/5DCY    | 9.8419<br>9.8408   | 20.04 | 0.47 | 0.55 | 8   | 10.31 | 22.5 | 13.39 | M12 | 1.61 | 11.81 | 8.58  | 10.24 |
| 6180/5DBY    | 11.0230<br>11.0217 | 22.72 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | M12 | 1.50 | 12.99 | 9.17  | 10.24 |
| 6190/5DAY    | 12.5977<br>12.5963 | 24.76 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | M12 | 1.61 | 14.96 | 10.04 | 10.24 |
| 6190/5DBY    | 12.5977<br>12.5963 | 25.71 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | M12 | 1.61 | 14.96 | 10.04 | 10.24 |

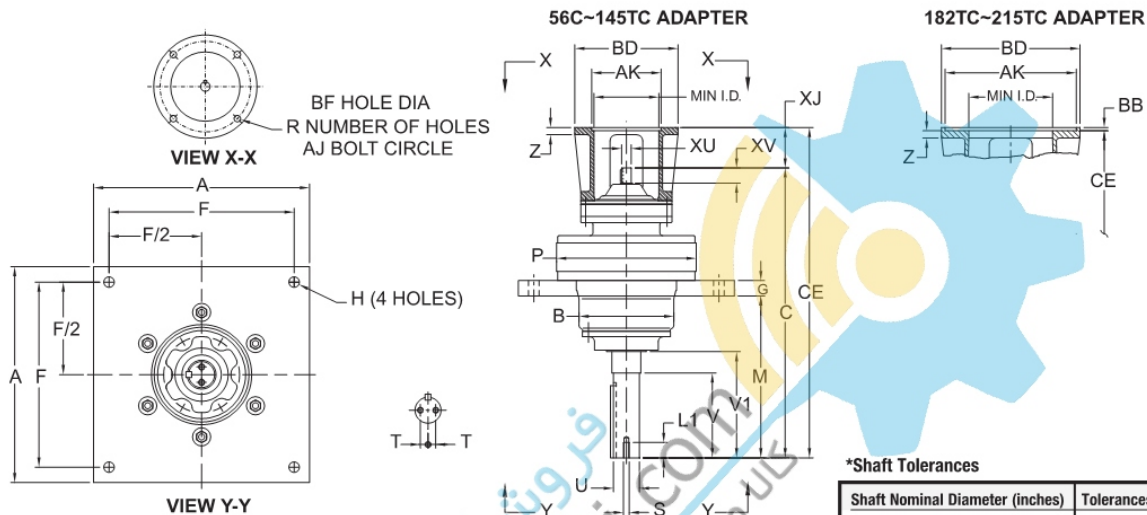
| Model<br>CVF | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|----------------------|
|              | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                      |
| 6160/5DCY    | 2.250           | 3.15 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 181                  |
| 6170/5DCY    | 2.750           | 3.31 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 232                  |
| 6180/5DBY    | 3.125           | 3.94 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 322                  |
| 6190/5DAY    | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 443                  |
| 6190/5DBY    | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 452                  |



# Dimensions Vertical F-Flange Mount, C-Face, Overhead Drive

## Double Reduction

### CVFJ-6130/5DCY ▶ 6180/5DBY



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

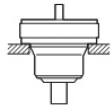
| Model CVFJ | Model DVX | A     | B    | C     | F     | G    | H    | M     | P     |
|------------|-----------|-------|------|-------|-------|------|------|-------|-------|
| 6130/5DCY  | 35DVX     | 12.50 | 6.14 | 17.91 | 10.50 | 0.88 | 0.56 | 9.50  | 9.06  |
| 6140/5DBY  | 40DVX     | 14.00 | 6.14 | 18.80 | 12.00 | 1.00 | 0.43 | 10.50 | 9.06  |
| 6160/5DCY  | 50DVX     | 16.00 | 6.77 | 20.15 | 14.00 | 1.46 | 0.81 | 10.50 | 11.81 |
| 6170/5DCY  | 60DVX     | 19.50 | 8.50 | 25.62 | 17.00 | 1.65 | 0.94 | 15.50 | 13.39 |
| 6180/5DBY  | 70DVX     | 22.00 | 9.06 | 28.00 | 19.00 | 1.75 | 1.12 | 15.50 | 14.57 |

| Model CVFJ | Model DVX | T    | U      | V    | V1   | S          | L1   | Key              | XU    | XV   | Key                |
|------------|-----------|------|--------|------|------|------------|------|------------------|-------|------|--------------------|
| 6130/5DCY  | 35DVX     | 0.38 | 1.6250 | 4.50 | 5.76 | 5/16-18UNC | 1.00 | 3/8 X 3/8 X 3.70 | 0.625 | 0.98 | 3/16 X 3/16 X .75  |
| 6140/5DBY  | 40DVX     | 0.50 | 1.6875 | 5.50 | 6.89 | 3/8-16UNC  | 1.00 | 3/8 X 3/8 X 4.69 | 0.625 | 0.98 | 3/16 X 3/16 X .75  |
| 6160/5DCY  | 50DVX     | 0.75 | 2.1875 | 5.50 | -    | 3/8-16UNC  | 1.00 | 1/2 X 1/2 X 5.24 | 0.750 | 1.38 | 3/16 X 3/16 X .98  |
| 6170/5DCY  | 60DVX     | 0.75 | 2.4375 | 7.50 | -    | 3/8-16UNC  | 1.00 | 5/8 X 5/8 X 6.50 | 0.750 | 1.38 | 3/16 X 3/16 X .98  |
| 6180/5DBY  | 70DVX     | 1.00 | 2.9375 | 7.50 | 9.22 | 3/8-16UNC  | 1.00 | 3/4 X 3/4 X 6.50 | 0.875 | 1.57 | 3/16 X 3/16 X 1.38 |

| Model CVFJ | Motor Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|------|-------|------|------|------|---|-------|------|------|-----------|-----------------|
| 6130/5DCY  | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 20.53 | 2.63 | 0.47 | 4.21      | 136             |
| 6140/5DBY  | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 21.42 | 2.63 | 0.47 | 4.21      | 150             |
| 6160/5DCY  | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 22.77 | 2.63 | 0.47 | 4.21      | 264             |
| 6170/5DCY  | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 23.92 | 3.37 | 0.47 | 5.43      | 267             |
| 6180/5DBY  | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 28.45 | 2.63 | 0.47 | 4.21      | 416             |
| 6180/5DBY  | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 29.19 | 3.37 | 0.47 | 5.43      | 420             |
| 6180/5DBY  | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 30.62 | 2.63 | 0.47 | 4.21      | 585             |
| 6180/5DBY  | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 31.37 | 3.37 | 0.47 | 5.43      | 589             |
| 6180/5DBY  | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 32.00 | 4.00 | 1.10 | 5.43      | 596             |

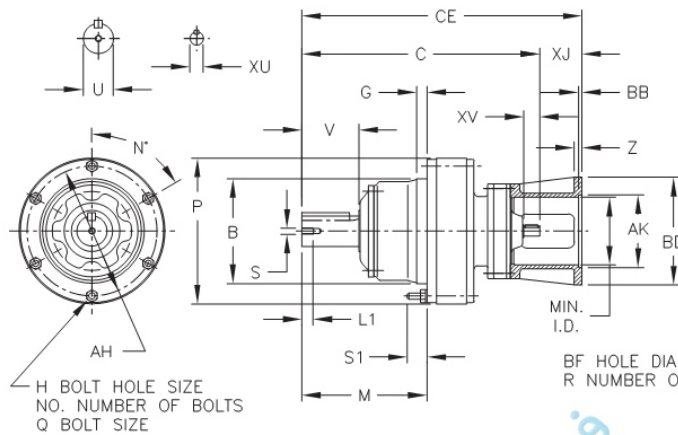
## 4.54 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Universal F-Flange Mount, C-Face

Double Reduction  
CNFJ-6060/5DAY ▶ 6120/5DBY



All dimensions are in inches

### \*Shaft Tolerances

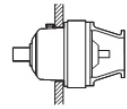
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

| Model CNFJ | B                | C     | G    | H    | NO. | M    | N    | P    | Q   | S1   | AH   |
|------------|------------------|-------|------|------|-----|------|------|------|-----|------|------|
| 6060/5DAY  | 3.1492<br>3.1485 | 7.01  | 0.16 | 0.26 | 6   | 2.68 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6070/5DAY  | 3.1492<br>3.1485 | 7.24  | 0.16 | 0.26 | 6   | 2.91 | 60   | 4.33 | M6  | 0.83 | 3.86 |
| 6090/5DAY  | 4.1334<br>4.1325 | 9.57  | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.14 | 5.28 |
| 6100/5DAY  | 4.1334<br>4.1325 | 10.12 | 0.24 | 0.35 | 8   | 4.49 | 22.5 | 5.91 | M8  | 1.10 | 5.28 |
| 6120/5DBY  | 5.5113<br>5.5103 | 12.28 | 0.55 | 0.43 | 6   | 5.47 | 60   | 8.03 | M10 | 1.30 | 7.09 |

| Model CNFJ | U*    | V    | Low Speed Shaft S | L1   | Key                | XU*   | XV   | Key                |
|------------|-------|------|-------------------|------|--------------------|-------|------|--------------------|
| 6060/5DAY  | 0.500 | 0.98 | 10-32UNF          | 0.63 | 1/8 X 1/8 X .79    | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   |
| 6070/5DAY  | 0.750 | 1.18 | 12-28UNF          | 0.63 | 3/16 X 3/16 X 1.06 | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   |
| 6090/5DAY  | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   |
| 6100/5DAY  | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   | 0.500 | 0.98 | 1/8 X 1/8 X 0.71   |
| 6120/5DBY  | 1.500 | 2.17 | 5/16-18UNC        | 0.79 | 3/8 X 3/8 X 1.77   | 0.625 | 0.98 | 3/16 X 3/16 X 0.75 |

| Model CNFJ | Motor Frame | AJ   | AK    | BD   | BB | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|------|-------|------|----|------|---|-------|------|------|-----------|-----------------|
| 6060/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 8.79  | 1.78 | 0.47 | 2.44      | 13              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.17  | 2.16 | 0.47 | 2.44      | 13              |
| 6070/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.02  | 1.78 | 0.47 | 2.44      | 13              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.40  | 2.16 | 0.47 | 2.44      | 13              |
| 6090/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.35 | 1.78 | 0.47 | 2.44      | 25              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.72 | 2.16 | 0.47 | 2.44      | 25              |
|            | 56C-145TC   | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.13 | 2.56 | 0.47 | 3.15      | 28              |
| 6100/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.90 | 1.78 | 0.47 | 2.44      | 29              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 12.28 | 2.16 | 0.47 | 2.44      | 30              |
|            | 56C-145TC   | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.68 | 2.56 | 0.47 | 3.15      | 32              |
| 6120/5DBY  | 42C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.06 | 1.78 | 0.47 | 2.44      | 60              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.44 | 2.16 | 0.47 | 2.44      | 60              |
|            | 56C-145TC   | 5.88 | 4.500 | 6.69 | -  | 0.43 | 4 | 14.91 | 2.63 | 0.47 | 4.21      | 62              |

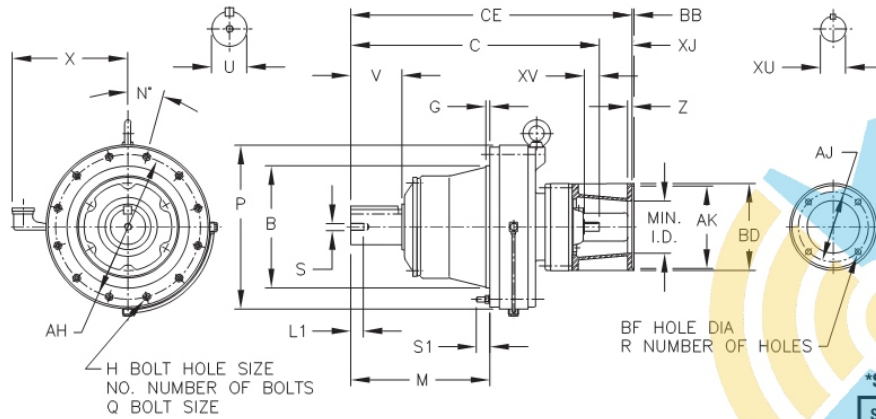




# Dimensions Horizontal F-Flange Mount, C-Face

## Double Reduction

### CHFJ-6130/5DAY ▶ 6160/5DCY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

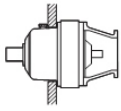
All dimensions are in inches

| Model CHFJ | B                | C     | G    | H    | NO. | M    | N  | P     | Q   | S1   | AH    | X    |
|------------|------------------|-------|------|------|-----|------|----|-------|-----|------|-------|------|
| 6130/5DAY  | 6.4955<br>6.4945 | 13.66 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6130/5DBY  | 6.4955<br>6.4945 | 14.29 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6130/5DCY  | 6.4955<br>6.4945 | 14.53 | 0.63 | 0.43 | 6   | 7.01 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6140/5DAY  | 6.4955<br>6.4945 | 14.45 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6140/5DBY  | 6.4955<br>6.4945 | 15.08 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6140/5DCY  | 6.4955<br>6.4945 | 15.31 | 0.63 | 0.43 | 6   | 7.80 | 60 | 9.06  | M10 | 1.22 | 8.07  | -    |
| 6160/5DCY  | 7.8734<br>7.8723 | 18.19 | 0.39 | 0.55 | 6   | 8.74 | 30 | 11.81 | M12 | 1.38 | 10.63 | 8.98 |

| Model CHFJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|            | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6130/5DAY  | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6130/5DBY  | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6130/5DCY  | 1.875           | 2.76 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6140/5DAY  | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6140/5DBY  | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6140/5DCY  | 1.875           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6160/5DCY  | 2.250           | 3.54 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750            | 1.38 | 3/16 X 3/16 X1.02  |

#### 4.56 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Horizontal F-Flange Mount, C-Face

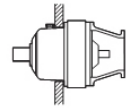
### Double Reduction CHFJ-6130/5DAY ▶ 6160/5DCY (cont.)

All dimensions are in inches

| Model CHFJ | Motor Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|------|-------|------|------|------|---|-------|------|------|-----------|-----------------|
| 6130/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.44 | 1.78 | 0.47 | 2.44      | 84              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.82 | 2.16 | 0.47 | 2.44      | 84              |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.22 | 2.56 | 0.47 | 4.21      | 86              |
| 6130/5DBY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.07 | 1.78 | 0.47 | 2.44      | 90              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.45 | 2.16 | 0.47 | 2.44      | 92              |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.92 | 2.63 | 0.47 | 4.21      | 94              |
| 6130/5DCY  | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.69 | 2.16 | 0.47 | 2.44      | 93              |
|            | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.15 | 2.63 | 0.47 | 4.21      | 95              |
| 6140/5DAY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.23 | 1.78 | 0.47 | 2.44      | 84              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.61 | 2.16 | 0.47 | 2.44      | 84              |
|            | 56C~143TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.01 | 2.56 | 0.47 | 4.21      | 86              |
| 6140/5DBY  | 42C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.86 | 1.78 | 0.47 | 2.44      | 91              |
|            | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.24 | 2.16 | 0.47 | 2.44      | 91              |
|            | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.70 | 2.63 | 0.47 | 4.21      | 93              |
| 6140/5DCY  | 48C         | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.47 | 2.16 | 0.47 | 2.44      | 95              |
|            | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.94 | 2.63 | 0.47 | 4.21      | 96              |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 18.98 | 3.67 | 0.47 | 5.43      | 100             |
| 6160/5DCY  | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 20.81 | 2.62 | 0.47 | 4.21      | 191             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 21.56 | 3.37 | 0.47 | 5.43      | 194             |

Speed Reducers

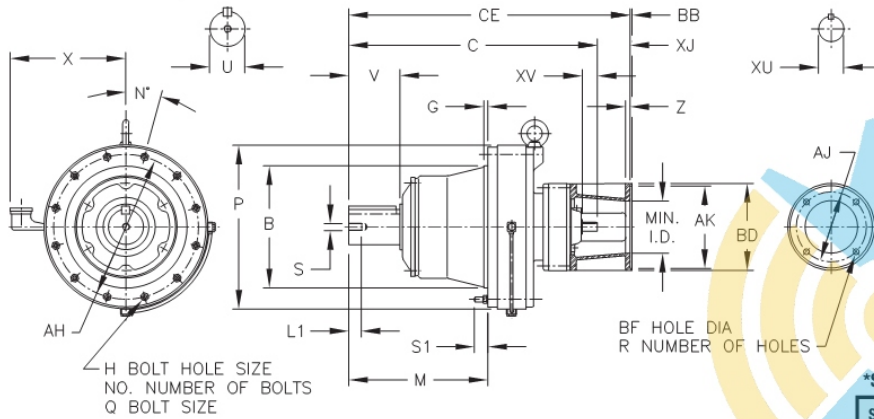
Dimensions



# Dimensions Horizontal F-Flange Mount, C-Face

## Double Reduction

### CHFJ-6170/5DCY ▶ 6215DBY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CHFJ | B                  | C     | G    | H    | NO. | M     | N    | P     | Q   | S1   | AH    | X     |
|------------|--------------------|-------|------|------|-----|-------|------|-------|-----|------|-------|-------|
| 6170/5DCY  | 9.8419<br>9.8408   | 20.04 | 0.47 | 0.55 | 8   | 10.81 | 22.5 | 13.39 | M12 | 0.61 | 11.81 | 9.57  |
| 6180/5DBY  | 11.0230<br>11.0217 | 22.72 | 0.47 | 0.55 | 8   | 11.77 | 22.5 | 14.57 | M12 | 1.50 | 12.99 | 10.16 |
| 6190/5DAY  | 12.5977<br>12.5963 | 24.76 | 0.39 | 0.55 | 12  | 14.37 | 15   | 16.93 | M12 | 1.61 | 14.96 | 11.22 |
| 6190/5DBY  | 12.5977<br>12.5963 | 25.71 | 0.39 | 0.65 | 12  | 14.37 | 15   | 16.93 | M12 | 1.61 | 14.96 | 11.22 |
| 6205DAY    | 14.1725<br>14.1711 | 26.38 | 0.79 | 0.71 | 12  | 16.14 | 15   | 17.64 | M16 | 2.20 | 15.94 | -     |
| 6205DBY    | 14.1725<br>14.1711 | 27.76 | 0.79 | 0.71 | 12  | 16.14 | 15   | 17.64 | M16 | 2.20 | 15.94 | -     |
| 6215DAY    | 15.3536<br>15.3522 | 28.78 | 0.79 | 0.81 | 12  | 16.65 | 15   | 19.09 | M18 | 2.20 | 17.32 | -     |
| 6215DBY    | 15.3536<br>15.3522 | 30.71 | 0.79 | 0.81 | 12  | 16.65 | 15   | 19.09 | M18 | 2.20 | 17.32 | -     |

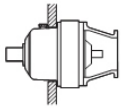
| Model CHFJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                   |
|------------|-----------------|------|-----------|------|------------------|------------------|------|-------------------|
|            | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key               |
| 6170/5DCY  | 2.750           | 3.54 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750            | 1.38 | 3/16 X 3/16 X1.02 |
| 6180/5DBY  | 3.125           | 4.33 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875            | 1.57 | 3/16 X 3/16 X1.38 |
| 6190/5DAY  | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.750            | 1.38 | 3/16 X 3/16 X1.02 |
| 6190/5DBY  | 3.625           | 5.31 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.875            | 1.57 | 3/16 X 3/16 X1.38 |
| 6205DAY    | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.750            | 1.38 | 3/16 X 3/16 X1.02 |
| 6205DBY    | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.875            | 1.57 | 3/16 X 3/16 X1.38 |
| 6215DAY    | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.875            | 1.57 | 3/16 X 3/16 X1.38 |
| 6215DBY    | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77  |

#### 4.58 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series





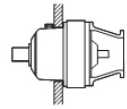
## Dimensions Horizontal F-Flange Mount, C-Face

### Double Reduction CHFJ-6170/5DCY ▶ 6215DBY (cont.)

| Model CHFJ | Motor Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|------|-------|------|------|------|---|-------|------|------|-----------|-----------------|
| 6170/5DCY  | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 22.67 | 2.63 | 0.47 | 4.21      | 241             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 23.41 | 3.37 | 0.47 | 5.43      | 245             |
| 6180/5DBY  | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 25.34 | 2.63 | 0.47 | 4.21      | 334             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 26.09 | 3.37 | 0.47 | 5.43      | 338             |
|            | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 26.72 | 4.00 | 1.10 | 5.43      | 345             |
|            | 254TC~256TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 27.65 | 4.93 | 0.57 | 5.08      | 346             |
| 6190/5DAY  | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 27.39 | 2.63 | 0.47 | 4.21      | 453             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 28.13 | 3.37 | 0.47 | 5.43      | 456             |
| 6190/5DBY  | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 28.33 | 2.63 | 0.47 | 4.21      | 464             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 29.08 | 3.37 | 0.47 | 5.43      | 468             |
|            | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 29.71 | 4.00 | 1.10 | 5.43      | 475             |
|            | 254TC~256TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 30.64 | 4.93 | 0.57 | 5.08      | 477             |
| 6205DAY    | 56C~145TC   | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 29.00 | 2.63 | 0.47 | 4.21      | 488             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 29.75 | 3.37 | 0.47 | 5.43      | 492             |
| 6205DBY    | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 30.38 | 2.63 | 0.47 | 4.21      | 513             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 31.13 | 3.37 | 0.47 | 5.43      | 516             |
|            | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 31.76 | 4.00 | 1.10 | 5.43      | 524             |
|            | 254TC~256TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 32.69 | 4.93 | 0.57 | 5.08      | 525             |
| 6215DAY    | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 31.41 | 2.63 | 0.47 | 4.21      | 687             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 32.15 | 3.37 | 0.47 | 5.43      | 691             |
|            | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 32.78 | 4.00 | 1.10 | 5.43      | 698             |
|            | 254TC~256TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 33.71 | 4.93 | 0.57 | 5.08      | 699             |
| 6215DBY    | 56C~145TC   | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 33.33 | 2.63 | 0.47 | 4.21      | 765             |
|            | 182TC~184TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 34.08 | 3.37 | 0.57 | 5.71      | 769             |
|            | 213TC~215TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 34.71 | 4.00 | 1.20 | 5.71      | 777             |
|            | 254TC~256TC | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 35.46 | 4.75 | 0.57 | 5.71      | 772             |

Speed Reducers

Dimensions



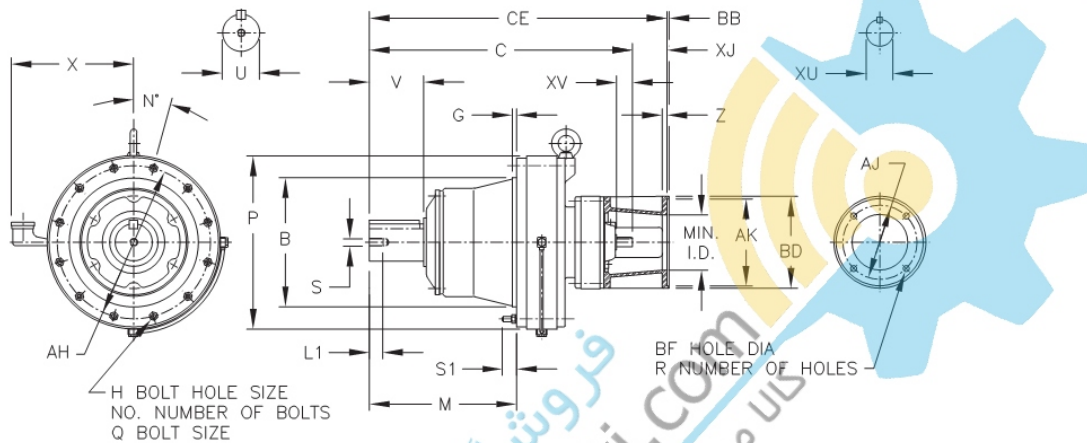
# Dimensions Horizontal F-Flange Mount, C-Face

## Double Reduction

### CHFJ-6225DAY ▶ 6265DAY

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |



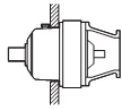
All dimensions are in inches

| Model CHFJ | B       | C     | G    | H    | NO. | M     | N  | P     | Q   | S1   | AH    | X |
|------------|---------|-------|------|------|-----|-------|----|-------|-----|------|-------|---|
| 6225DAY    | 16.5346 | 30.43 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | M20 | 2.52 | 18.70 | - |
| 6225DBY    | 16.5331 | 33.86 | 0.79 | 0.87 | 12  | 17.87 | 15 | 20.71 | M20 | 2.52 | 18.70 | - |
| 6235DAY    | 17.9126 | 34.76 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | M20 | 2.56 | 20.08 | - |
| 6235DBY    | 17.9110 | 36.93 | 0.79 | 0.87 | 12  | 19.88 | 15 | 22.13 | M20 | 2.56 | 20.08 | - |
| 6245DAY    | 19.6843 | 36.26 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | M24 | 2.56 | 22.05 | - |
| 6245DBY    | 19.6827 | 38.39 | 0.98 | 1.06 | 12  | 20.83 | 15 | 24.17 | M24 | 2.56 | 22.05 | - |
| 6255DAY    | 21.2590 | 42.56 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | M24 | 3.58 | 24.02 | - |
| 6255DBY    | 21.2572 | 44.61 | 1.18 | 1.06 | 12  | 24.25 | 15 | 26.38 | M24 | 3.58 | 24.02 | - |
| 6265DAY    | 22.4401 | 48.94 | 1.57 | 1.34 | 12  | 28.03 | 15 | 29.98 | M30 | 3.35 | 25.98 | - |
|            | 22.4383 |       |      |      |     |       |    |       |     |      |       |   |

| Model CHFJ | Low Speed Shaft |       |            |      |                       | High Speed Shaft |      |                    |
|------------|-----------------|-------|------------|------|-----------------------|------------------|------|--------------------|
|            | U*              | V     | S          | L1   | Key                   | XU*              | XV   | Key                |
| 6225DAY    | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50    | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6225DBY    | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50    | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6235DAY    | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6235DBY    | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6245DAY    | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6245DBY    | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87    | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6255DAY    | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45      | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6255DBY    | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45      | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6265DAY    | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.81 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |

#### 4.60 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Horizontal F-Flange Mount, C-Face

### Double Reduction CHFJ-6225DAY ▶ 6265DAY (cont.)

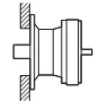
All dimensions are in inches

| Model CHFJ | Motor Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min. I.D. | Approx Wt. (lb) |
|------------|-------------|-------|--------|-------|------|------|---|-------|------|------|-----------|-----------------|
| 6225DAY    | 56C~145TC   | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 33.06 | 2.63 | 0.47 | 4.21      | 799             |
|            | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 33.81 | 3.37 | 0.47 | 5.43      | 803             |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 34.43 | 4.00 | 1.10 | 5.43      | 810             |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 35.36 | 4.93 | 0.57 | 5.08      | 812             |
| 6225DBY    | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 37.24 | 3.38 | 0.57 | 5.71      | 929             |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 37.86 | 4.00 | 1.20 | 5.71      | 935             |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.61 | 4.75 | 0.57 | 5.71      | 931             |
|            | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 39.30 | 5.44 | 0.57 | 7.87      | 942             |
| 6235DAY    | 56C~145TC   | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 37.39 | 2.62 | 0.47 | 4.21      | 1074            |
|            | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.14 | 3.37 | 0.57 | 5.71      | 1078            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.76 | 4.00 | 1.20 | 5.71      | 1085            |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.52 | 4.75 | 0.57 | 5.71      | 1080            |
| 6235DBY    | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 40.43 | 3.50 | 0.57 | 5.71      | 1150            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.93 | 4.00 | 1.07 | 5.71      | 1156            |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.68 | 4.75 | 0.57 | 5.71      | 1164            |
|            | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 42.37 | 5.44 | 0.57 | 7.87      | 1159            |
| 6245DAY    | 324TC~326TC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 43.43 | 6.50 | 0.57 | 7.87      | 1163            |
|            | 56C~145TC   | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 38.89 | 2.63 | 0.47 | 4.21      | 1307            |
|            | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.63 | 3.37 | 0.57 | 5.71      | 1312            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.26 | 4.00 | 1.20 | 5.71      | 1319            |
| 6245DBY    | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.01 | 4.75 | 0.57 | 5.71      | 1314            |
|            | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.89 | 3.50 | 0.57 | 5.71      | 1377            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 42.39 | 4.00 | 1.07 | 5.71      | 1383            |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 43.14 | 4.75 | 0.57 | 5.71      | 1391            |
| 6255DAY    | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 43.82 | 5.44 | 0.57 | 7.87      | 1386            |
|            | 324TC~326TC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 44.89 | 6.50 | 0.57 | 7.87      | 1390            |
|            | 182TC~184TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 45.94 | 3.38 | 0.57 | 5.71      | 1906            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 46.56 | 4.00 | 1.20 | 5.71      | 1912            |
| 6255DBY    | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 47.31 | 4.75 | 0.57 | 5.71      | 1908            |
|            | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 48.00 | 5.44 | 0.57 | 7.87      | 1919            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 48.73 | 4.13 | 1.29 | 5.71      | 2112            |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 49.36 | 4.75 | 0.57 | 5.71      | 2105            |
| 6265DAY    | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 50.04 | 5.44 | 0.57 | 7.87      | 2113            |
|            | 324TC~326TC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 51.11 | 6.50 | 0.57 | 7.87      | 2139            |
|            | 213TC~215TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.06 | 4.13 | 1.29 | 5.71      | 2650            |
|            | 254TC~256TC | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.69 | 4.75 | 0.57 | 5.71      | 2643            |
| 6265DAY    | 284TC~286TC | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 54.37 | 5.44 | 0.57 | 7.87      | 2652            |
|            | 324TC~326TC | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 55.44 | 6.50 | 0.57 | 7.87      | 2677            |

Speed Reducers

Dimensions

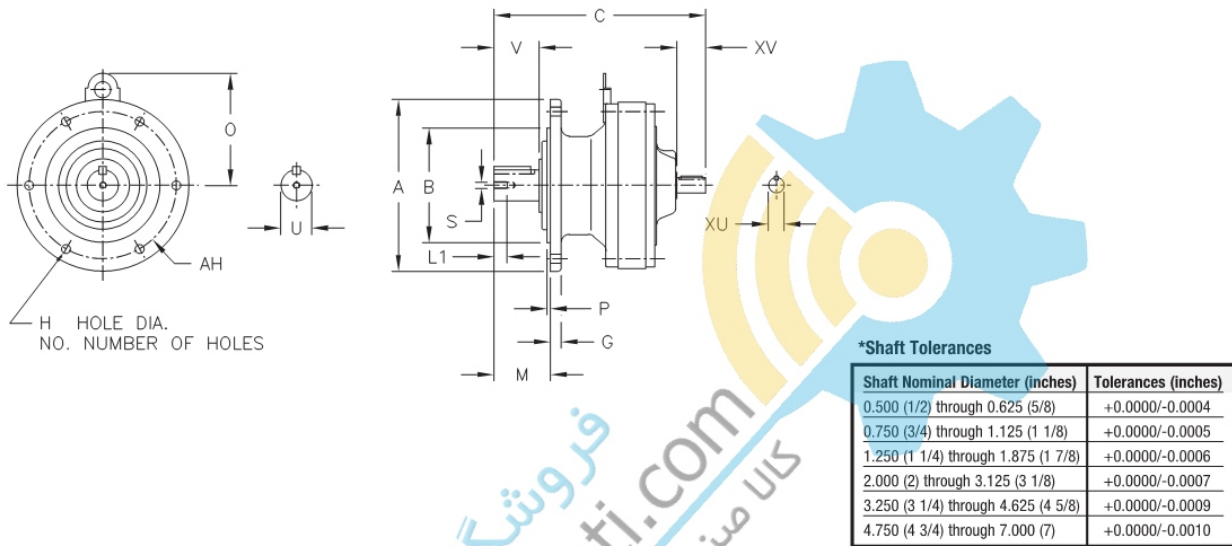




# Dimensions Universal V-Flange Mount

## Single Reduction

CNV-6060/5Y ▶ 6120/5Y



All dimensions are in inches

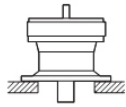
| Model CNV | A    | B                | C     | G    | H    | NO. | M    | O    | P    | AH   |
|-----------|------|------------------|-------|------|------|-----|------|------|------|------|
| 6060/5Y   | 4.72 | 3.1484<br>3.1466 | 5.71  | 0.31 | 0.35 | 6   | 1.34 | -    | 0.12 | 4.02 |
| 6070/5Y   | 6.30 | 4.3293<br>4.3272 | 5.94  | 0.35 | 0.43 | 4   | 1.65 | -    | 0.12 | 5.28 |
| 6080/5Y   | 6.30 | 4.3293<br>4.3272 | 7.05  | 0.35 | 0.43 | 4   | 1.89 | -    | 0.12 | 5.28 |
| 6090/5Y   | 6.30 | 4.3293<br>4.3272 | 7.95  | 0.35 | 0.43 | 4   | 1.89 | 4.21 | 0.12 | 5.28 |
| 6100/5Y   | 6.30 | 4.3293<br>4.3272 | 8.19  | 0.35 | 0.43 | 4   | 1.89 | 4.21 | 0.12 | 5.28 |
| 6110/5Y   | 8.27 | 5.5101<br>5.5076 | 8.58  | 0.43 | 0.43 | 6   | 2.28 | 4.57 | 0.16 | 7.09 |
| 6120/5Y   | 8.27 | 5.5101<br>5.5076 | 10.20 | 0.51 | 0.43 | 6   | 2.72 | 5.39 | 0.16 | 7.09 |

| Model CNV | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    | Approx. Wt. (lb.) |
|-----------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|-------------------|
|           | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |                   |
| 6060/5Y   | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 8                 |
| 6070/5Y   | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 10                |
| 6080/5Y   | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 18                |
| 6090/5Y   | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 20                |
| 6100/5Y   | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 24                |
| 6110/5Y   | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 29                |
| 6120/5Y   | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 51                |

### 4.62 Dimensions

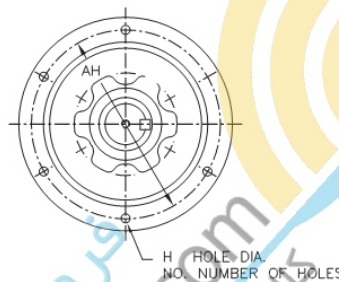
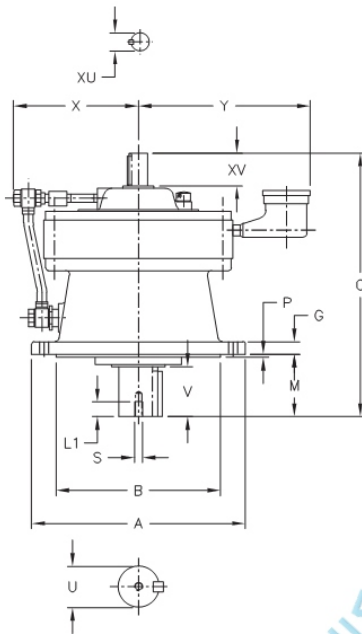
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



# Dimensions Vertical V-Flange Mount

Single Reduction  
CVV-6130/5Y ▶ 6140/5Y



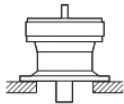
## \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

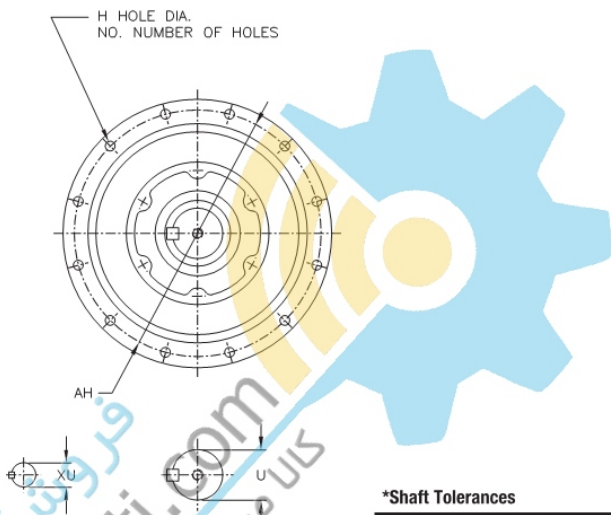
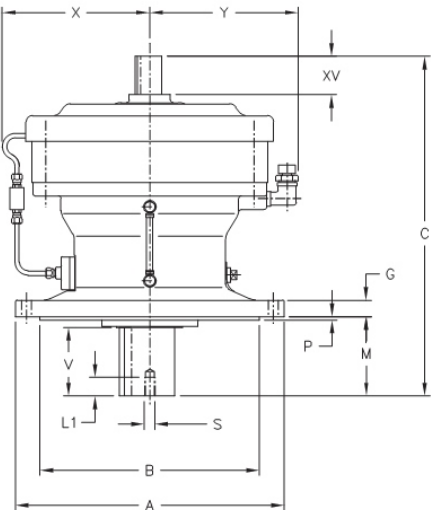
| Model<br>CVV | A     | B                | C     | G    | H    | NO | M    | P    | AH   | X    | Y    |
|--------------|-------|------------------|-------|------|------|----|------|------|------|------|------|
| 6130/5Y      | 10.24 | 7.8720<br>7.8692 | 12.64 | 0.59 | 0.43 | 6  | 2.99 | 0.16 | 9.06 | 5.98 | 9.17 |
| 6140/5Y      | 10.24 | 7.8720<br>7.8692 | 13.43 | 0.59 | 0.43 | 6  | 3.78 | 0.16 | 9.06 | 5.98 | 9.17 |

| Model<br>CVV | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|----------------------|
|              | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |                      |
| 6130/5Y      | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 93                   |
| 6140/5Y      | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 95                   |



# Dimensions Vertical V-Flange Mount

Single Reduction  
CVV-6160/5Y ▶ 6275Y



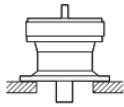
\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

Speed Reducers  
All dimensions are in inches

| Model CVV | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    | X     | Y     |
|-----------|-------|--------------------|-------|------|------|-----|-------|------|-------|-------|-------|
| 6160/5    | 13.39 | 10.6277<br>10.6245 | 16.26 | 0.79 | 0.43 | 6   | 3.50  | 0.16 | 12.20 | 8.54  | 7.87  |
| 6170/5    | 15.75 | 12.4385<br>12.4350 | 18.78 | 0.87 | 0.55 | 8   | 3.70  | 0.20 | 14.17 | 8.74  | 8.86  |
| 6180/5    | 16.93 | 13.5802<br>13.5767 | 20.75 | 0.87 | 0.71 | 8   | 4.33  | 0.20 | 15.35 | 9.33  | 9.45  |
| 6190/5    | 19.29 | 15.7456<br>15.7421 | 24.41 | 1.18 | 0.71 | 12  | 5.71  | 0.24 | 17.72 | 10.43 | 10.63 |
| 6205      | 17.91 | 13.9739<br>13.9704 | 26.69 | 1.18 | 0.87 | 8   | 8.03  | 0.20 | 15.94 | 13.43 | 11.30 |
| 6215      | 19.29 | 15.3519<br>15.3484 | 27.87 | 1.38 | 0.94 | 8   | 7.99  | 0.28 | 17.32 | 13.70 | 12.05 |
| 6225      | 21.06 | 16.3359<br>16.3321 | 29.61 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 | 13.86 | 12.83 |
| 6235      | 22.44 | 17.7139<br>17.7100 | 33.03 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 | 14.13 | 13.54 |
| 6245      | 25.00 | 19.0918<br>19.0880 | 34.53 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 | 14.57 | 14.61 |
| 6255      | 26.97 | 21.0600<br>21.0557 | 40.94 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 | 16.77 | 15.71 |
| 6265      | 29.53 | 22.4380<br>22.4336 | 45.28 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 | 18.11 | 16.97 |
| 6275      | 45.67 | 35.4297<br>35.4242 | 57.56 | 2.36 | 1.54 | 8   | 13.98 | 0.39 | 40.16 | 24.02 | 24.13 |





## Dimensions Vertical V-Flange Mount

Single Reduction  
CVV-6160/5Y ▶ 6275Y (cont.)

All dimensions are in inches

| Model<br>CVV | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|----------------------|
|              | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |                      |
| 6160/5       | 2.250           | 3.15  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 174                  |
| 6170/5       | 2.750           | 3.31  | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 276                  |
| 6180/5       | 3.125           | 3.94  | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74     | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 331                  |
| 6190/5       | 3.625           | 4.92  | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 496                  |
| 6205         | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   | 536                  |
| 6215         | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   | 692                  |
| 6225         | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50   | 2.125            | 3.23 | 1/2 X 1/2 X 3.23   | 873                  |
| 6235         | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13   | 1045                 |
| 6245         | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13   | 1252                 |
| 6255         | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   | 1907                 |
| 6265         | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12   | 2481                 |
| 6275         | 7.000           | 12.60 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13.0 | 3.500            | 5.91 | 7/8 X 7/8 X 5.90   | 5755                 |

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Speed  
Reducers

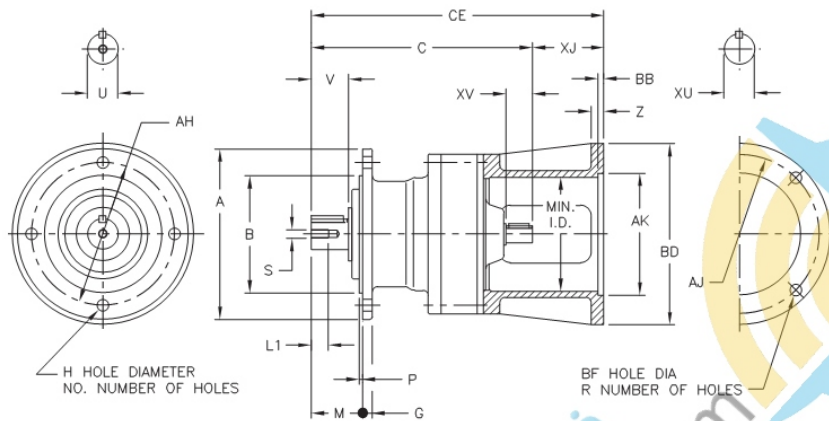
Dimensions



## Dimensions Universal and Vertical V-Flange Mount, C-Face

### Single Reduction

CNVJ-6060/5Y ▶ 6120/5Y



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

Speed  
Reducers

Dimensions

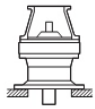
| Model<br>CNVJ | A    | B                | C     | G    | H    | NO. | M    | P    | AH   |
|---------------|------|------------------|-------|------|------|-----|------|------|------|
| 6060/5Y       | 4.72 | 3.1484<br>3.1466 | 5.71  | 0.31 | 0.35 | 6   | 1.34 | 0.12 | 4.02 |
| 6070/5Y       | 6.30 | 4.3293<br>4.3272 | 5.94  | 0.35 | 0.43 | 4   | 1.65 | 0.12 | 5.28 |
| 6080/5Y       | 6.30 | 4.3293<br>4.3272 | 7.05  | 0.35 | 0.43 | 4   | 1.89 | 0.12 | 5.28 |
| 6090/5Y       | 6.30 | 4.3293<br>4.3272 | 7.95  | 0.35 | 0.43 | 4   | 1.89 | 0.12 | 5.28 |
| 6100/5Y       | 6.30 | 4.3293<br>4.3272 | 8.19  | 0.35 | 0.43 | 4   | 1.89 | 0.12 | 5.28 |
| 6110/5Y       | 8.27 | 5.5101<br>5.5076 | 8.58  | 0.43 | 0.43 | 6   | 2.28 | 0.16 | 7.09 |
| 6120/5Y       | 8.27 | 5.5101<br>5.5076 | 10.20 | 0.51 | 0.43 | 6   | 2.72 | 0.16 | 7.09 |

| Model<br>CNVJ | Low Speed Shaft |      |            |      | High Speed Shaft   |       |                    |
|---------------|-----------------|------|------------|------|--------------------|-------|--------------------|
|               | U*              | V    | S          | L1   | Key                | XU*   | Key                |
| 6060/5Y       | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   | 0.500 | 1/8 X 1/8 X 0.71   |
| 6070/5Y       | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500 | 1/8 X 1/8 X 0.71   |
| 6080/5Y       | 0.875           | 1.38 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.18 | 0.500 | 1/8 X 1/8 X 0.71   |
| 6090/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625 | 3/16 X 3/16 X 0.75 |
| 6100/5Y       | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.625 | 3/16 X 3/16 X 0.75 |
| 6110/5Y       | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   | 0.625 | 3/16 X 3/16 X 0.75 |
| 6120/5Y       | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750 | 3/16 X 3/16 X 1.02 |

#### 4.66 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



## Dimensions Universal and Vertical V-Flange Mount, C-Face

### Single Reduction CNVJ-6060/5Y ▶ 6120/5Y (cont.)

All dimensions are in inches

| Model<br>CNVJ | Motor<br>Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|------|------|---|-------|------|------|--------------|--------------------|
| 6060/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.49  | 1.78 | 0.47 | 2.44         | 11                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.87  | 2.16 | 0.47 | 2.44         | 11                 |
|               | 56C            | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 8.27  | 2.56 | 0.47 | 3.15         | 13                 |
| 6070/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 7.72  | 1.78 | 0.47 | 2.44         | 13                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 8.10  | 2.16 | 0.47 | 2.44         | 13                 |
|               | 56C            | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 8.50  | 2.56 | 0.47 | 3.15         | 15                 |
| 6080/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 8.79  | 1.74 | 0.39 | 2.48         | 22                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 9.17  | 2.12 | 0.39 | 2.48         | 22                 |
|               | 56C            | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 9.63  | 2.58 | 0.47 | 3.07         | 23                 |
| 6090/5Y       | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 9.73  | 1.78 | 0.47 | 2.44         | 25                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 10.11 | 2.16 | 0.47 | 2.44         | 25                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 10.58 | 2.63 | 0.47 | 4.21         | 27                 |
| 6100/5Y       | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 10.35 | 2.16 | 0.47 | 2.44         | 29                 |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 10.81 | 2.63 | 0.47 | 4.21         | 31                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 11.85 | 3.67 | 0.47 | 5.43         | 35                 |
| 6110/5Y       | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 11.20 | 2.62 | 0.28 | 3.94         | 35                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 12.24 | 3.66 | 0.47 | 3.94         | 40                 |
| 6120/5Y       | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 12.82 | 2.63 | 0.47 | 4.21         | 60                 |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 13.57 | 3.37 | 0.47 | 5.43         | 64                 |

Speed  
Reducers

Dimensions

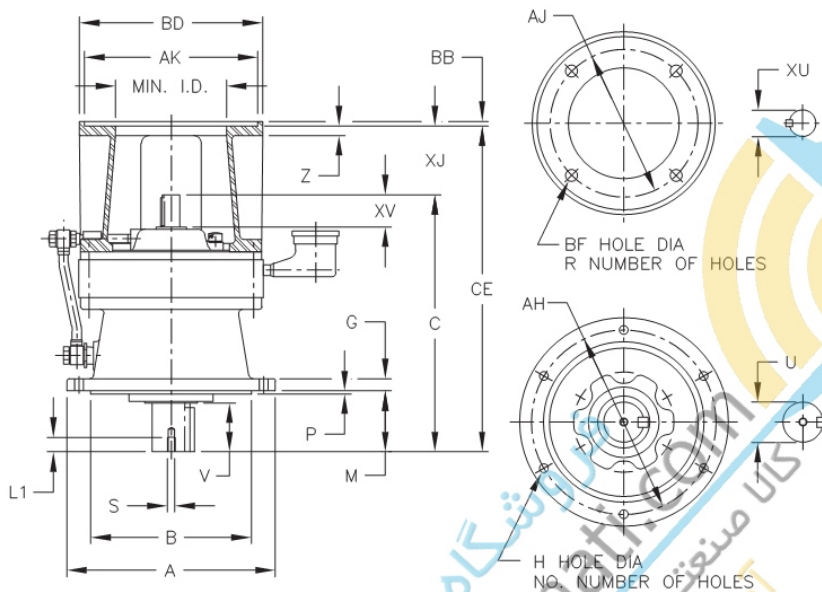




# Dimensions Vertical V-Flange Mount, C-Face

## Single Reduction

CVVJ-6130/5Y ▶ 6205Y



### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CVVJ | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    |
|---------------|-------|--------------------|-------|------|------|-----|------|------|-------|
| 6130/5Y       | 10.24 | 7.8720<br>7.8692   | 12.64 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06  |
| 6140/5Y       | 10.24 | 7.8720<br>7.8692   | 13.43 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06  |
| 6160/5        | 13.39 | 10.6277<br>10.6245 | 16.26 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 |
| 6170/5        | 15.75 | 12.4385<br>12.4350 | 18.78 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 |
| 6180/5        | 16.93 | 13.5802<br>13.5767 | 20.75 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 |
| 6190/5        | 19.29 | 15.7456<br>15.7421 | 24.41 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| 6205          | 17.91 | 13.9739<br>13.9704 | 26.69 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |

| Model<br>CVVJ | Low Speed Shaft |      |           |      | High Speed Shaft |      |                    |
|---------------|-----------------|------|-----------|------|------------------|------|--------------------|
|               | U*              | V    | S         | L1   | XU*              | XV   |                    |
| 6130/5Y       | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y       | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5        | 2.250           | 3.15 | 3/8-16UNC | 0.71 | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5        | 2.750           | 3.31 | 1/2-13UNC | 0.94 | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5        | 3.125           | 3.94 | 1/2-13UNC | 0.94 | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5        | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205          | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |

### 4.68 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Vertical V-Flange Mount, C-Face

Single Reduction  
CVVJ-6130/5Y ▶ 6205Y (cont.)

All dimensions are in inches

| Model<br>CVVJ | Motor<br>Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|-------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6130/5Y       | 143TC-145TC    | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 15.26 | 2.63 | 0.47 | 4.21         | 105                |
|               | 182TC-184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.01 | 3.37 | 0.47 | 5.43         | 108                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.64 | 4.00 | 1.10 | 5.43         | 116                |
|               | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 17.57 | 4.93 | 0.57 | 5.08         | 117                |
| 6140/5Y       | 143TC-145TC    | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 16.05 | 2.63 | 0.47 | 4.21         | 107                |
|               | 182TC-184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 16.80 | 3.37 | 0.47 | 5.43         | 111                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 17.43 | 4.00 | 1.10 | 5.43         | 118                |
|               | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 18.35 | 4.93 | 0.57 | 5.08         | 119                |
| 6160/5Y       | 143TC-145TC    | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 18.89 | 2.63 | 0.47 | 4.21         | 216                |
|               | 182TC-184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 19.63 | 3.37 | 0.57 | 5.71         | 220                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 20.26 | 4.00 | 1.20 | 5.71         | 228                |
|               | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 21.01 | 4.75 | 0.57 | 5.71         | 223                |
| 6170/5Y       | 284TC-286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 21.70 | 5.44 | 0.57 | 6.50         | 216                |
|               | 182TC-184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 22.16 | 3.38 | 0.57 | 5.71         | 314                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 22.78 | 4.00 | 1.20 | 5.71         | 321                |
|               | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 23.53 | 4.75 | 0.57 | 5.71         | 316                |
| 6180/5Y       | 284TC-286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 24.22 | 5.44 | 0.57 | 7.87         | 327                |
|               | 324TC-326TC    | 11.00 | 12.500 | 14.17 | 0.22 | 0.71 | 4 | 24.78 | 6.00 | 0.57 | 7.87         | 347                |
|               | 182TC-184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 24.25 | 3.50 | 0.57 | 5.71         | 379                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 24.75 | 4.00 | 1.07 | 5.71         | 384                |
| 6190/5Y       | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 25.50 | 4.75 | 0.57 | 5.71         | 392                |
|               | 284TC-286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 26.19 | 5.44 | 0.57 | 7.87         | 387                |
|               | 324TC-326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 27.25 | 6.50 | 0.57 | 7.87         | 391                |
|               | 213TC-215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 28.54 | 4.13 | 1.29 | 5.71         | 566                |
| 6205Y         | 254TC-256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.59 | 4 | 29.16 | 4.75 | 0.57 | 5.71         | 559                |
|               | 284TC-286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 29.85 | 5.44 | 0.57 | 7.87         | 568                |
|               | 324TC-326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 30.91 | 6.50 | 0.57 | 7.87         | 593                |
|               | 213TC-215TC    | 7.25  | 8.500  | 9.84  | 0.22 | 0.59 | 4 | 30.79 | 4.10 | 0.57 | 5.91         | 626                |
| 6205Y         | 254TC-256TC    | 7.25  | 8.500  | 9.84  | 0.22 | 0.59 | 4 | 31.43 | 4.73 | 0.57 | 5.91         | 626                |
|               | 284TC-286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 32.06 | 5.36 | 0.57 | 6.89         | 633                |
|               | 324TC-326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 33.17 | 6.48 | 0.57 | 8.27         | 658                |
|               | 364TC-365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 33.92 | 7.22 | 0.57 | 8.27         | 656                |
| 6205Y         | 364TSC-365TSC  | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 31.79 | 5.10 | 0.57 | 8.27         | 648                |

Speed  
Reducers

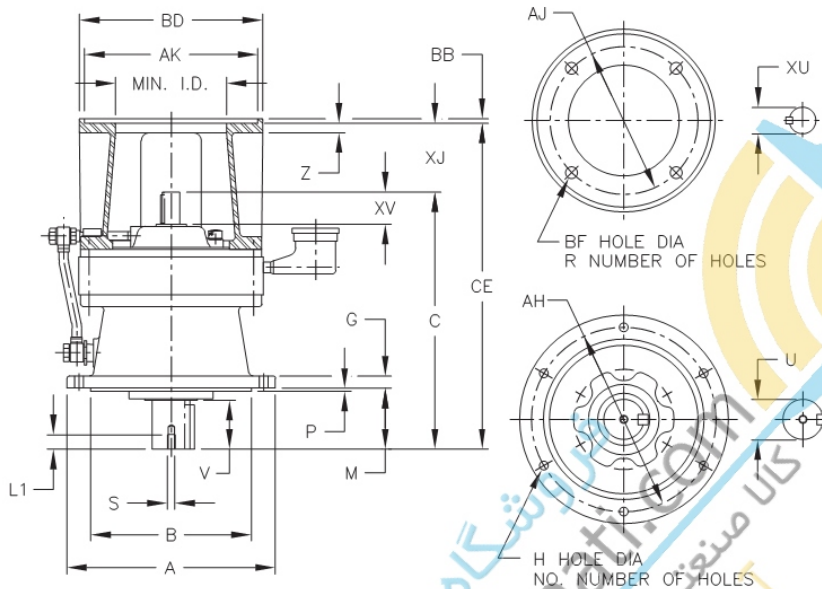
Dimensions



# Dimensions Vertical V-Flange Mount, C-Face

## Single Reduction

CVVJ-6215Y ▶ 6265Y



### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CVVJ | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    |
|---------------|-------|--------------------|-------|------|------|-----|-------|------|-------|
| <b>6215</b>   | 19.29 | 15.3519<br>15.3484 | 27.87 | 1.38 | 0.94 | 8   | 7.99  | 0.28 | 17.32 |
| <b>6225</b>   | 21.06 | 16.3359<br>16.3321 | 29.61 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 |
| <b>6235</b>   | 22.44 | 17.7139<br>17.7100 | 33.03 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 |
| <b>6245</b>   | 25.00 | 19.0918<br>19.0880 | 34.53 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| <b>6255</b>   | 26.97 | 21.0600<br>21.0557 | 40.94 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| <b>6265</b>   | 29.53 | 22.4380<br>22.4336 | 45.28 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 |

| Model<br>CVVJ | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                  |
|---------------|-----------------|-------|------------|------|----------------------|------------------|------|------------------|
|               | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key              |
| <b>6215</b>   | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.875            | 3.23 | 1/2 X 1/2 X 3.23 |
| <b>6225</b>   | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50   | 2.125            | 3.23 | 1/2 X 1/2 X 3.23 |
| <b>6235</b>   | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.250            | 4.13 | 1/2 X 1/2 X 4.13 |
| <b>6245</b>   | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500            | 4.13 | 5/8 X 5/8 X 4.13 |
| <b>6255</b>   | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |
| <b>6265</b>   | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125            | 5.12 | 3/4 X 3/4 X 5.12 |

### 4.70 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series





# Dimensions Vertical V-Flange Mount, C-Face

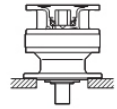
Single Reduction  
CVVJ-6215 ▶ 6265 (cont.)

All dimensions are in inches

| Model<br>CVVJ | Motor<br>Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|-------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6215Y         | 254TC~256CTC   | 7.25  | 8.500  | 9.84  | 0.22 | 0.59 | 4 | 32.63 | 4.75 | 0.57 | 5.91         | 802                |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 33.26 | 5.38 | 0.57 | 6.89         | 807                |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 34.37 | 6.50 | 0.57 | 8.27         | 832                |
|               | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.12 | 7.24 | 0.57 | 8.46         | 824                |
|               | 364TC~365TSC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 33.00 | 5.12 | 0.57 | 8.46         | 869                |
| 6225Y         | 254TC~256CTC   | 7.25  | 8.500  | 11.10 | 0.22 | 0.59 | 4 | 34.37 | 4.76 | 0.57 | 5.51         | 1015               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.59 | 4 | 35.00 | 5.39 | 0.57 | 6.30         | 1014               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 36.11 | 6.50 | 0.57 | 8.46         | 1025               |
|               | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 36.85 | 7.24 | 0.57 | 8.46         | 1027               |
|               | 364TC~365TSC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 34.74 | 5.14 | 0.57 | 8.46         | 1019               |
|               | 404TC~405TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 38.23 | 8.63 | 0.57 | 8.46         | 1035               |
|               | 404TC~405TSC   | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 35.24 | 5.63 | 0.57 | 8.46         | 1021               |
| 6235Y         | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 39.57 | 6.54 | 0.57 | 8.66         | 1217               |
|               | 404TC~405TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.69 | 8.66 | 0.57 | 8.46         | 1239               |
| 6245Y         | 324TC~326TC    | 11.00 | 12.500 | 14.57 | 0.22 | 0.71 | 4 | 41.06 | 6.54 | 0.57 | 8.27         | 1497               |
|               | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 41.77 | 7.24 | 0.57 | 8.46         | 1490               |
|               | 404TC~405TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 43.15 | 8.63 | 0.57 | 8.46         | 1484               |
| 6255Y         | 364TC~365TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 48.20 | 7.25 | 0.57 | 9.45         | 2189               |
|               | 404TC~405TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 8 | 49.57 | 8.63 | 0.57 | 9.45         | 2220               |
| 6265Y         | 364TC~365TC    | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 52.52 | 7.24 | 0.57 | 9.45         | 2828               |
|               | 404TC~405TC    | 11.00 | 12.500 | 15.75 | 0.22 | 0.71 | 8 | 53.91 | 8.63 | 0.57 | 9.45         | 2859               |

Speed  
Reducers

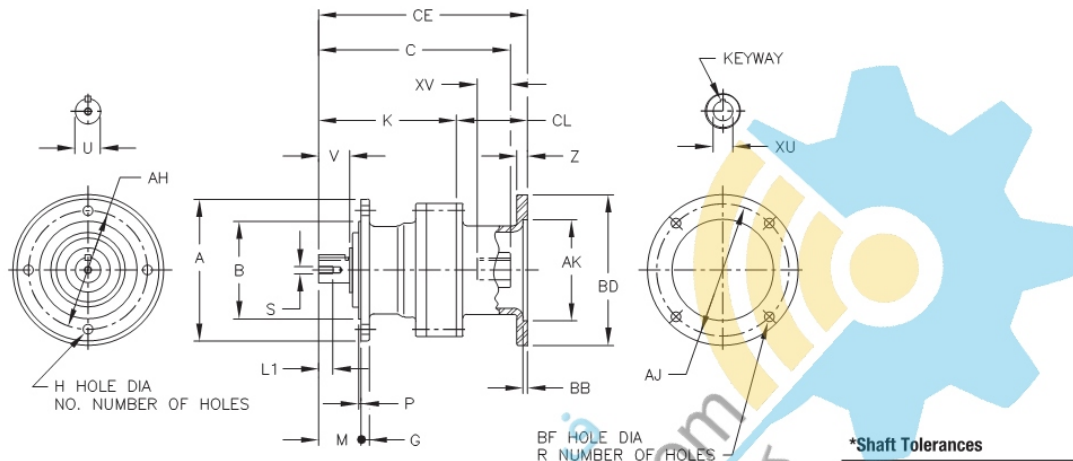
Dimensions



# Dimensions Universal V-Flange Mount, Hollow Input

## Single Reduction

CNVX-6060/5Y ▶ 6120/5Y



All dimensions are in inches

| Model CNVX | A    | B                | G    | H    | K    | NO | M    | P    | AH   |
|------------|------|------------------|------|------|------|----|------|------|------|
| 6060/5Y    | 4.72 | 3.1484<br>3.1466 | 0.31 | 0.35 | 3.62 | 6  | 1.34 | 0.12 | 4.02 |
| 6070/5Y    | 6.30 | 4.3293<br>4.3272 | 0.35 | 0.43 | 3.86 | 4  | 1.65 | 0.12 | 5.28 |
| 6080/5Y    | 6.30 | 4.3293<br>4.3272 | 0.35 | 0.43 | 5.08 | 4  | 1.89 | 0.12 | 5.28 |
| 6090/5Y    | 6.30 | 4.3293<br>4.3272 | 0.35 | 0.43 | 5.59 | 4  | 1.89 | 0.12 | 5.28 |
| 6100/5Y    | 6.30 | 4.3293<br>4.3272 | 0.35 | 0.43 | 6.14 | 4  | 1.89 | 0.12 | 5.28 |
| 6110/5Y    | 8.27 | 5.5101<br>5.5076 | 0.43 | 0.43 | 6.69 | 6  | 2.28 | 0.16 | 7.09 |
| 6120/5Y    | 8.27 | 5.5101<br>5.5076 | 0.51 | 0.43 | 7.32 | 6  | 2.72 | 0.16 | 7.09 |

### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |

Speed Reducers

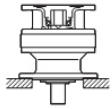
Dimensions

| Model CNVX | U*    | V    | Low Speed Shaft S | L1   | Key                |
|------------|-------|------|-------------------|------|--------------------|
| 6060/5Y    | 0.500 | 0.98 | 10-32UNF          | 0.63 | 1/8 X 1/8 X 0.79   |
| 6070/5Y    | 0.750 | 1.18 | 12-28UNF          | 0.63 | 3/16 X 3/16 X 1.06 |
| 6080/5Y    | 0.875 | 1.38 | 12-28UNF          | 0.63 | 3/16 X 3/16 X 1.18 |
| 6090/5Y    | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   |
| 6100/5Y    | 1.125 | 1.38 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.18   |
| 6110/5Y    | 1.250 | 1.77 | 5/16-18UNC        | 0.79 | 1/4 X 1/4 X 1.46   |
| 6120/5Y    | 1.500 | 2.17 | 5/16-18UNC        | 0.79 | 3/8 X 3/8 X 1.77   |

## 4.72 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



## Dimensions Universal V-Flange Mount, Hollow Input

### Single Reduction CNVX-6060/5Y ▶ 6120/5Y (cont.)

All dimensions are in inches

| Model<br>CNVX | Motor<br>Frame | AJ   | AK   | BD   | BB   | BF   | R | CE    | CL   | C     | Z    | XU                          | High Speed<br>XV | Shaft<br>Keyway | Approx<br>Wt. (lb) |
|---------------|----------------|------|------|------|------|------|---|-------|------|-------|------|-----------------------------|------------------|-----------------|--------------------|
| 6060/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 6.61  | 2.99 | 5.59  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10             | 3/16 x 3/32     | 12                 |
| 6070/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 6.85  | 2.99 | 5.83  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10             | 3/16 x 3/32     | 14                 |
| 6080/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 8.19  | 3.11 | 7.54  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.56             | 3/16 x 3/32     | 26                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 8.19  | 3.11 | 7.54  | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.56             | 3/16 x 3/32     | 26                 |
| 6090/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 8.94  | 3.35 | 8.31  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18             | 3/16 x 3/32     | 24                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 8.94  | 3.35 | 8.31  | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57             | 3/16 x 3/32     | 24                 |
| 6100/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.23  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18             | 3/16 x 3/32     | 29                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 9.29  | 3.15 | 8.70  | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65             | 3/16 x 3/32     | 29                 |
| 6110/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 9.96  | 3.27 | 9.31  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.56             | 3/16 x 3/32     | 35                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 9.96  | 3.27 | 9.31  | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.56             | 3/16 x 3/32     | 35                 |
|               | 182TC-184TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.59 | 4 | 10.71 | 4.02 | 9.61  | 0.69 | 1.125<br>+0.0008<br>-0.0000 | 1.85             | 1/4 x 1/8       | 41                 |
| 6120/5Y       | 56C            | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.25 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18             | 3/16 x 3/32     | 59                 |
|               | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.22 | 0.43 | 4 | 11.30 | 3.98 | 10.45 | 0.47 | 0.875<br>+0.0016<br>-0.0008 | 1.50             | 3/16 x 3/32     | 59                 |
|               | 182TC-184TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.55 | 0.67 | 1.125<br>+0.0016<br>-0.0008 | 2.48             | 1/4 x 1/8       | 62                 |
|               | 213TC-215TC    | 7.25 | 8.50 | 8.98 | 0.22 | 0.55 | 4 | 12.44 | 5.12 | 11.67 | 0.67 | 1.375<br>+0.0020<br>-0.0010 | 2.64             | 5/16 x 5/32     | 62                 |

Speed  
Reducers

Dimensions



## CYCLO® 6000 Speed Reducers

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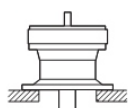
Speed  
Reducers

Dimensions

### 4.74 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series

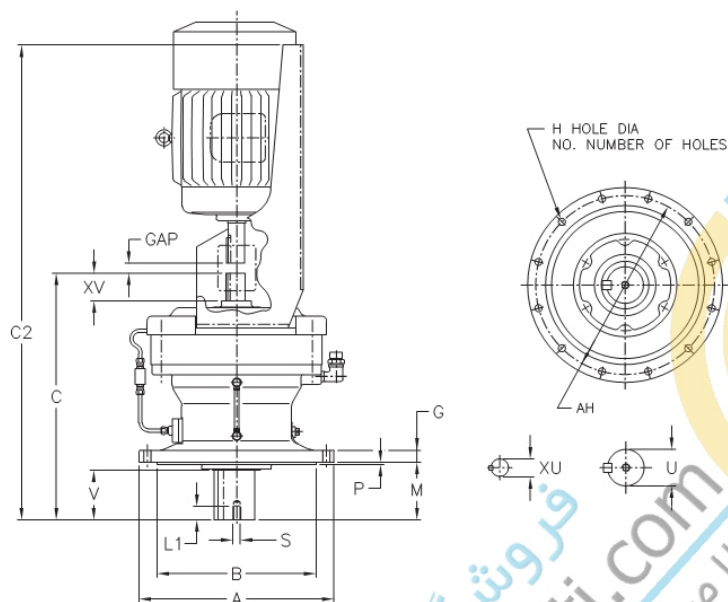


## Dimensions Vertical and Universal V-Flange Mount, Shovel Base

### Single Reduction

CVV<sup>[1]</sup>-6120/5Y-SB

CVV<sup>[1]</sup>-6130/5Y ▶ 6140/5Y-SB



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

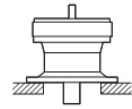
All dimensions are in inches

| Model<br>CNV<br>CVV <sup>[1]</sup> | A     | B                | C     | G    | H    | NO. | M    | P    | AH   |
|------------------------------------|-------|------------------|-------|------|------|-----|------|------|------|
| 6120/5Y-SB                         | 8.27  | 5.5101<br>5.5076 | 10.20 | 0.51 | 0.43 | 6   | 2.72 | 0.16 | 7.09 |
| 6130/5Y-SB                         | 10.24 | 7.8720<br>7.8692 | 12.64 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06 |
| 6140/5Y-SB                         | 10.24 | 7.8720<br>7.8692 | 13.43 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06 |

| Model<br>CNV<br>CVV <sup>[1]</sup> | Low Speed Shaft |      |            |      |                  | High Speed Shaft |      |                    |
|------------------------------------|-----------------|------|------------|------|------------------|------------------|------|--------------------|
|                                    | U*              | V    | S          | L1   | Key              | XU*              | XV   | Key                |
| 6120/5Y-SB                         | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6130/5Y-SB                         | 1.875           | 2.40 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y-SB                         | 1.875           | 3.19 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |

| Model<br>CNV, CVV <sup>[1]</sup> | Dimensions   | 143T  | 145T | 182T  | 184T | 213T  | 215T | 254T  | 256T | 284T | 286T | 324T | 326T | 364T | 365T |
|----------------------------------|--------------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|
| 6120/5Y-SB                       | C2           | 24.25 |      | 24.25 |      | 28.74 |      |       |      |      |      |      |      |      |      |
|                                  | GAP          | 0.50  | 0.52 | 0.71  |      | 0.88  |      |       |      |      |      |      |      |      |      |
|                                  | WT W/O MOTOR | 83    |      | 81    |      | 96    |      |       |      |      |      |      |      |      |      |
| 6130/5Y-SB                       | C2           | 30.83 |      | 30.83 |      | 30.83 |      | 34.84 |      |      |      |      |      |      |      |
|                                  | GAP          | 0.50  | 0.52 | 0.71  |      | 0.88  |      | 1.00  |      |      |      |      |      |      |      |
|                                  | WT W/O MOTOR | 125   |      | 125   |      | 135   |      | 135   |      |      |      |      |      |      |      |
| 6140/5Y-SB                       | C2           | 31.61 |      | 31.61 |      | 31.61 |      | 35.63 |      |      |      |      |      |      |      |
|                                  | GAP          | 0.50  | 0.52 | 0.71  |      | 0.88  |      | 1.00  |      |      |      |      |      |      |      |
|                                  | WT W/O MOTOR | 171   |      | 146   |      | 143   |      | 154   |      |      |      |      |      |      |      |

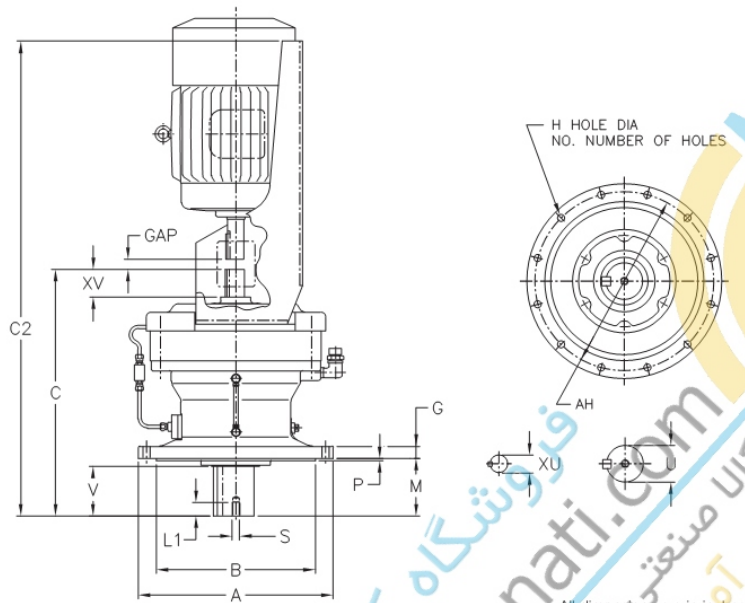
Note: [1] Model 6120/5Y-SB is type CNV; Models 6130/5Y-SB and 6140/5Y-SB are type CVV.



# Dimensions Vertical V-Flange Mount, Shovel Base

## Single Reduction

### CVV-6160/5Y ▶ 6235Y-SB



All dimensions are in inches

| Model CVV  | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    |
|------------|-------|--------------------|-------|------|------|-----|------|------|-------|
| 6160/5Y-SB | 13.39 | 10.6277<br>10.6245 | 16.26 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 |
| 6170/5Y-SB | 15.75 | 12.4385<br>12.4350 | 18.78 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 |
| 6180/5Y-SB | 16.93 | 13.5802<br>13.5767 | 20.75 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 |
| 6190/5Y-SB | 19.29 | 15.7456<br>15.7421 | 24.41 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| 6205Y-SB   | 17.91 | 13.9739<br>13.9704 | 26.69 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |
| 6215Y-SB   | 19.29 | 15.3519<br>15.3484 | 27.87 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 |
| 6225Y-SB   | 21.06 | 16.3359<br>16.3321 | 29.61 | 1.38 | 1.06 | 8   | 8.27 | 0.39 | 18.70 |
| 6235Y-SB   | 22.44 | 17.7139<br>17.7100 | 33.03 | 1.57 | 1.06 | 8   | 9.84 | 0.39 | 20.08 |

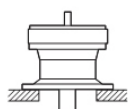
#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

| Model CVV  | Low Speed Shaft |      |           |      |                    | High Speed Shaft |      |                    |
|------------|-----------------|------|-----------|------|--------------------|------------------|------|--------------------|
|            | U*              | V    | S         | L1   | Key                | XU*              | XV   | Key                |
| 6160/5Y-SB | 2.250           | 3.15 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y-SB | 2.750           | 3.31 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15   | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y-SB | 3.125           | 3.94 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y-SB | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205Y-SB   | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |
| 6215Y-SB   | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50       | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6225Y-SB   | 4.625           | 6.50 | 3/4-10UNC | 1.34 | 1-1/4 X 7/8 X 6.50 | 2.125            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6235Y-SB   | 5.000           | 7.87 | 1-8UNC    | 1.61 | 1-1/4 X 7/8 X 7.87 | 2.250            | 4.13 | 1/2 X 1/2 X 4.13   |

#### 4.76 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Vertical V-Flange Mount, Shovel Base

Single Reduction  
CVV-6160/5Y ▶ 6235Y-SB (cont.)

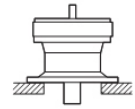
All dimensions are in inches

| Model   | Dimensions   | 143T  | 145T | 182T  | 184T | 213T  | 215T | 254T  | 256T | 284T  | 286T | 324T  | 326T | 364T  | 365T |
|---------|--------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 6160Y   | C2           | 32.68 |      | 32.68 |      | 37.68 |      | 37.68 |      | 40.87 |      |       |      |       |      |
|         | GAP          | 0.50  |      | 0.75  |      | 0.88  |      | 1.00  |      | 1.00  |      |       |      |       |      |
|         | WT W/O MOTOR | 220   |      | 218   |      | 239   |      | 234   |      | 276   |      |       |      |       |      |
| 6170/5Y | C2           | 34.41 |      | 34.41 |      | 37.83 |      | 43.43 |      | 43.43 |      | 46.14 |      |       |      |
|         | GAP          | 0.71  |      | 0.71  |      | 0.88  |      | 1.00  |      | 1.00  |      | 1.50  |      |       |      |
|         | WT W/O MOTOR | 320   |      | 318   |      | 326   |      | 390   |      | 382   |      | 401   |      |       |      |
| 6180/5Y | C2           |       |      | 40.04 |      | 40.04 |      | 46.02 |      | 46.02 |      | 50.04 |      |       |      |
|         | GAP          |       |      | 0.88  |      | 0.88  |      | 1.00  |      | 1.00  |      | 1.50  |      |       |      |
|         | WT W/O MOTOR |       |      | 405   |      | 402   |      | 455   |      | 447   |      | 471   |      |       |      |
| 6190/5Y | C2           |       |      |       |      | 47.01 |      | 47.01 |      | 52.09 |      | 52.07 |      |       |      |
|         | GAP          |       |      |       |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |       |      |
|         | WT W/O MOTOR |       |      |       |      | 602   |      | 597   |      | 656   |      | 646   |      |       |      |
| 6205Y   | C2           |       |      |       |      | 47.81 |      | 47.81 |      | 53.88 |      | 53.88 |      | 54.82 |      |
|         | GAP          |       |      |       |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|         | WT W/O MOTOR |       |      |       |      | 645   |      | 655   |      | 685   |      | 740   |      | 812   |      |
| 6215Y   | C2           |       |      |       |      | 45.43 |      | 51.81 |      | 51.81 |      | 54.88 |      | 56.81 |      |
|         | GAP          |       |      |       |      | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|         | WT W/O MOTOR |       |      |       |      | 763   |      | 822   |      | 814   |      | 832   |      | 851   |      |
| 6225Y   | C2           |       |      |       |      |       |      | 51.42 |      | 56.50 |      | 56.50 |      | 59.41 |      |
|         | GAP          |       |      |       |      |       |      | 1.00  |      | 1.00  |      | 1.50  |      | 1.63  |      |
|         | WT W/O MOTOR |       |      |       |      |       |      | 995   |      | 1031  |      | 1021  |      | 1036  |      |
| 6235Y   | C2           |       |      |       |      |       |      |       |      | 59.88 |      | 59.88 |      | 61.85 |      |
|         | GAP          |       |      |       |      |       |      |       |      | 1.00  |      | 1.50  |      | 1.63  |      |
|         | WT W/O MOTOR |       |      |       |      |       |      |       |      | 1214  |      | 1204  |      | 1216  |      |

Speed Reducers

Dimensions

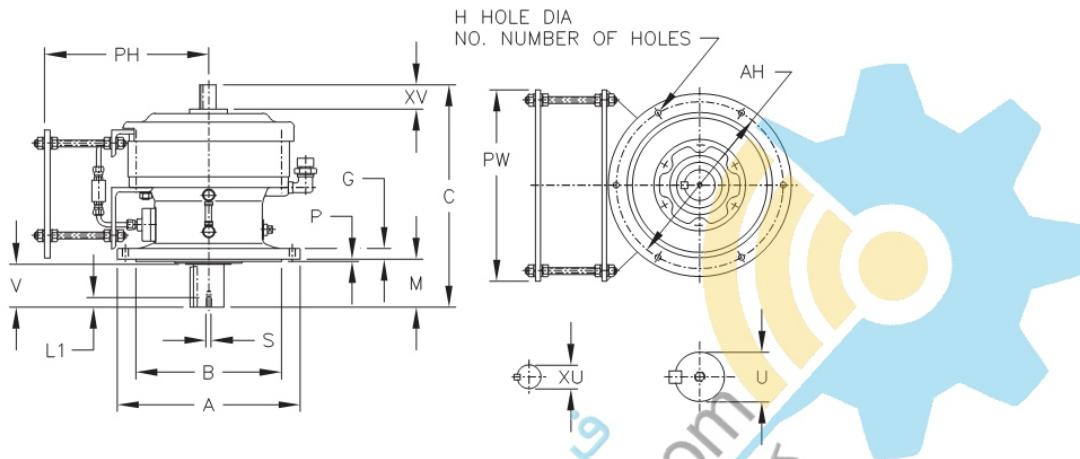




## Dimensions Universal and Vertical V-Flange Side Mount

### Single Reduction

CNVP-6110/5Y ▶ 6120/5Y, CVVP-6130/5Y ▶ 6235Y<sup>[1]</sup>



All dimensions are in inches

| Model<br>CNVP<br>CVVP <sup>[1]</sup> | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    |
|--------------------------------------|-------|--------------------|-------|------|------|-----|------|------|-------|
| 6110/5Y                              | 8.27  | 5.5101<br>5.5076   | 8.58  | 0.43 | 0.43 | 6   | 2.28 | 0.16 | 7.09  |
| 6120/5Y                              | 8.27  | 5.5101<br>5.5076   | 10.20 | 0.51 | 0.43 | 6   | 2.72 | 0.16 | 7.09  |
| 6130/5Y                              | 10.24 | 7.8720<br>7.8692   | 12.64 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06  |
| 6140/5Y                              | 10.24 | 7.8720<br>7.8692   | 13.43 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06  |
| 6160/5Y                              | 13.39 | 10.6277<br>10.6245 | 16.26 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 |
| 6170/5Y                              | 15.75 | 12.4385<br>12.4350 | 18.78 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 |
| 6180/5Y                              | 16.93 | 13.5802<br>13.5767 | 20.75 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 |
| 6190/5Y                              | 19.29 | 15.7456<br>15.7421 | 24.41 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| 6205Y                                | 17.91 | 13.9739<br>13.9704 | 26.69 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |
| 6215Y                                | 19.29 | 15.3519<br>15.3484 | 27.87 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 |
| 6225Y                                | 21.06 | 16.3359<br>16.3321 | 29.61 | 1.38 | 1.06 | 8   | 8.27 | 0.39 | 18.70 |
| 6235Y                                | 22.44 | 17.7139<br>17.7100 | 33.03 | 1.57 | 1.06 | 8   | 9.84 | 0.39 | 20.08 |

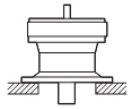
#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

Note: [1] Models 6110/5Y and 6120/5Y are type CNVP; Models 6130/5Y - 6235Y are type CVVP.

#### 4.78 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Universal and Vertical V-Flange Side Mount

### Single Reduction

### CNVP-6110/5Y ▶ 6120/5Y, CVVP-6130/5Y ▶ 6235Y<sup>[1, 2]</sup> (cont.)

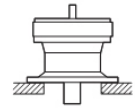
All dimensions are in inches

| Model<br>CNVP<br>CVVP <sup>[1, 2]</sup> | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    |
|-----------------------------------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|
|                                         | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |
| 6110/5Y                                 | 1.250           | 1.77 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.46   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6120/5Y                                 | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6130/5Y                                 | 1.875           | 2.40 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16   | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6140/5Y                                 | 1.875           | 3.19 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95   | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6160/5Y                                 | 2.250           | 3.15 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6170/5Y                                 | 2.750           | 3.31 | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15   | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6180/5Y                                 | 3.125           | 3.94 | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6190/5Y                                 | 3.625           | 4.92 | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6205Y                                   | 3.875           | 6.50 | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50       | 1.750            | 3.23 | 3/8 X 3/8 X 3.23   |
| 6215Y                                   | 4.250           | 6.50 | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50       | 1.875            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6225Y                                   | 4.625           | 6.50 | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.50 | 2.125            | 3.23 | 1/2 X 1/2 X 3.23   |
| 6235Y                                   | 5.000           | 7.87 | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87 | 2.250            | 4.13 | 1/2 X 1/2 X 4.13   |

| Model<br>CNVP<br>CVVP <sup>[1, 2]</sup> | Dimensions          | 56 | 143T | 145T                  | 182T                    | 184T                    | 213T                    | 215T                    | 254T                    | 256T                    | 284T                    | 286T                    | 324T                    | 326T | 364T | 365T | 404T                    | 405T                    | 444T | 445T | 447T |
|-----------------------------------------|---------------------|----|------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------|------|------|-------------------------|-------------------------|------|------|------|
| 6110/5Y<br>6120/5Y                      | PH MIN<br>MAX<br>PW |    |      | 7.08<br>9.53<br>12.01 |                         |                         | 7.08<br>9.53<br>14.96   |                         |                         |                         |                         |                         |                         |      |      |      |                         |                         |      |      |      |
| 6130/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       | 7.59<br>9.91<br>14.96   |                         |                         |                         | 7.59<br>9.91<br>17.01   |                         |                         |                         |                         |      |      |      |                         |                         |      |      |      |
| 6140/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       | 7.59<br>9.91<br>14.96   |                         |                         |                         | 7.59<br>9.91<br>17.01   |                         |                         |                         |                         |      |      |      |                         |                         |      |      |      |
| 6160/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       | 9.16<br>12.17<br>14.02  |                         |                         |                         | 9.29<br>12.17<br>17.01  |                         |                         | 9.29<br>12.11<br>18.03  |                         |      |      |      |                         |                         |      |      |      |
| 6170/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       | 10.20<br>13.08<br>17.01 |                         |                         |                         | 10.20<br>13.02<br>17.01 |                         |                         | 10.20<br>13.08<br>18.50 |                         |      |      |      |                         |                         |      |      |      |
| 6180/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       |                         |                         | 10.71<br>14.09<br>17.01 |                         |                         |                         |                         | 10.71<br>14.03<br>20.00 |                         |      |      |      |                         |                         |      |      |      |
| 6190/5Y                                 | PH MIN<br>MAX<br>PW |    |      |                       |                         |                         |                         | 12.28<br>15.45<br>20.00 |                         |                         |                         |                         | 12.28<br>15.39<br>24.02 |      |      |      |                         |                         |      |      |      |
| 6205Y                                   | PH MIN<br>MAX<br>PW |    |      |                       |                         | 13.30<br>17.13<br>15.98 |                         |                         | 13.52<br>17.00<br>18.98 |                         |                         |                         | 13.52<br>17.00<br>24.02 |      |      |      |                         |                         |      |      |      |
| 6215Y                                   | PH MIN<br>MAX<br>PW |    |      |                       |                         |                         |                         |                         |                         | 14.27<br>18.25<br>24.02 |                         |                         |                         |      |      |      | 14.52<br>18.25<br>28.03 |                         |      |      |      |
| 6225Y                                   | PH MIN<br>MAX<br>PW |    |      |                       |                         |                         |                         |                         |                         |                         | 14.78<br>18.76<br>24.02 |                         |                         |      |      |      |                         | 15.26<br>18.74<br>28.03 |      |      |      |
| 6235Y                                   | PH MIN<br>MAX<br>PW |    |      |                       |                         | 15.64<br>19.87<br>15.98 |                         |                         | 15.77<br>19.75<br>18.98 |                         |                         |                         | 15.77<br>19.75<br>24.02 |      |      |      |                         | 16.27<br>19.75<br>28.03 |      |      |      |

Note: [1] Models 6110/5Y and 6120/5Y are type CNVP; Models 6130/5Y - 6235Y are type CVVP.

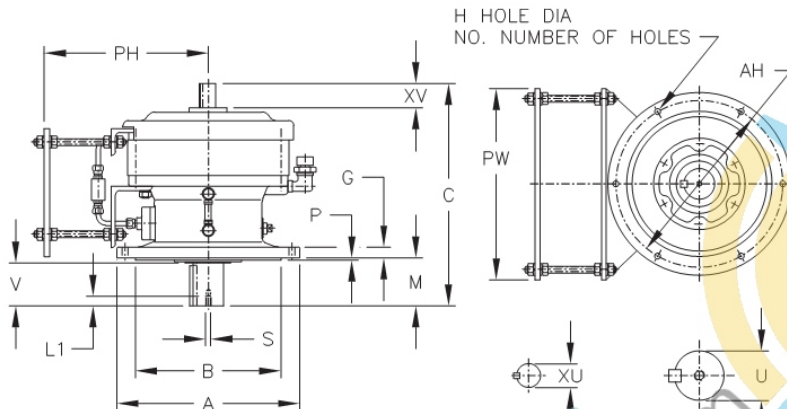
[2] Because the Cyclo® reducer is so compact, in certain frame sizes the motor may extend below the Cyclo® mounting flange. Please consult factory for additional information.



# Dimensions Vertical V-Flange Side Mount

## Single Reduction

### CVVP-6245Y ▶ 6275Y



All dimensions are in inches

| Model CVVP | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    |
|------------|-------|--------------------|-------|------|------|-----|-------|------|-------|
| 6245Y      | 25.00 | 19.0918<br>19.0880 | 34.53 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| 6255Y      | 26.97 | 21.0600<br>21.0557 | 40.94 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| 6265Y      | 29.53 | 22.4380<br>22.4336 | 45.28 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 |
| 6275Y      | 45.67 | 35.4297<br>35.4242 | 57.56 | 2.36 | 1.54 | 8   | 13.98 | 0.39 | 40.16 |

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

Speed Reducers

Dimensions

| Model CVVP | U*    | V     | Low Speed Shaft | L1   | Key                  | XU*   | XV   | High Speed Shaft | Key |
|------------|-------|-------|-----------------|------|----------------------|-------|------|------------------|-----|
| 6245Y      | 5.500 | 7.87  | 1-8UNC          | 1.61 | 1-1/4 X 7/8 X 7.87   | 2.500 | 4.13 | 5/8 X 5/8 X 4.13 |     |
| 6255Y      | 6.250 | 9.45  | 1-1/4-7UNC      | 1.93 | 1-1/2 X 1 X 9.45     | 3.125 | 5.12 | 3/4 X 3/4 X 5.12 |     |
| 6265Y      | 6.625 | 11.81 | 1-1/4-7UNC      | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 3.125 | 5.12 | 3/4 X 3/4 X 5.12 |     |
| 6275Y      | 7.000 | 12.60 | 1-1/4-7UNC      | 2.05 | 1-3/4 X 1-1/4 X 13   | 3.500 | 5.91 | 7/8 X 7/8 X 5.90 |     |

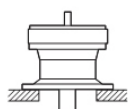
| Model CVVP <sup>(1)</sup> | Dimensions          | 56 | 143T | 145T | 182T | 184T | 213T | 215T | 254T | 256T | 284T                    | 286T                    | 324T | 326T                    | 364T                    | 365T                    | 404T                    | 405T | 444T                    | 445T | 447T                    |
|---------------------------|---------------------|----|------|------|------|------|------|------|------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|------|-------------------------|------|-------------------------|
| 6245Y                     | PH MIN<br>MAX<br>PW |    |      |      |      |      |      |      |      |      | 17.05<br>20.80<br>22.05 |                         |      |                         | 17.05<br>20.80<br>24.02 |                         | 17.58<br>20.82<br>28.03 |      |                         |      |                         |
| 6255Y                     | PH MIN<br>MAX<br>PW |    |      |      |      |      |      |      |      |      |                         | 18.31<br>22.06<br>24.02 |      |                         |                         |                         | 18.80<br>22.04<br>28.03 |      | 18.80<br>22.04<br>30.00 |      |                         |
| 6265Y                     | PH MIN<br>MAX<br>PW |    |      |      |      |      |      |      |      |      |                         |                         |      | 19.29<br>25.04<br>24.02 |                         |                         | 19.82<br>25.07<br>28.03 |      |                         |      | 19.82<br>25.07<br>30.00 |
| 6275Y                     | PH MIN<br>MAX<br>PW |    |      |      |      |      |      |      |      |      |                         |                         |      |                         |                         | 23.44<br>28.69<br>34.02 |                         |      |                         |      |                         |

**Note:** [1] Because the Cyclo® reducer is so compact, in certain frame sizes the motor may extend below the Cyclo® mounting flange. Please consult factory for additional information.

#### 4.80 Dimensions

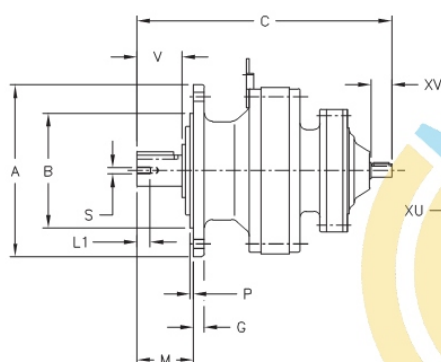
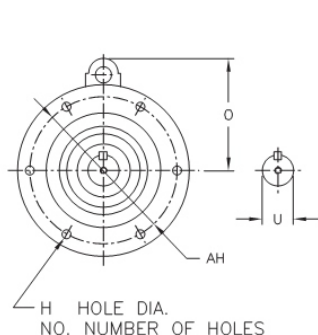
Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series



# Dimensions Universal V-Flange Mount

Double Reduction  
CNV-6060/5DAY ▶ 6120/5DBY



\*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

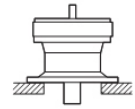
| Model CNV | A    | B                | C     | G    | H    | NO. | M    | O    | P    | AH   |
|-----------|------|------------------|-------|------|------|-----|------|------|------|------|
| 6060/5DAY | 4.72 | 3.1484<br>3.1466 | 7.01  | 0.31 | 0.35 | 6   | 1.34 | -    | 0.12 | 4.02 |
| 6070/5DAY | 6.30 | 4.3293<br>4.3272 | 7.24  | 0.35 | 0.43 | 4   | 1.65 | -    | 0.12 | 5.28 |
| 6090/5DAY | 6.30 | 4.3293<br>4.3272 | 9.57  | 0.35 | 0.43 | 4   | 1.89 | 4.21 | 0.12 | 5.28 |
| 6100/5DAY | 6.30 | 4.3293<br>4.3272 | 10.12 | 0.35 | 0.43 | 4   | 1.89 | 4.21 | 0.12 | 5.28 |
| 6120/5DBY | 8.27 | 5.5101<br>5.5076 | 12.28 | 0.51 | 0.43 | 6   | 2.72 | 5.39 | 0.16 | 7.09 |

| Model CNV | U*    | V    | Low Speed Shaft |      | Key                | High Speed Shaft |      | Key                | Approx. Wt. (lb.) |
|-----------|-------|------|-----------------|------|--------------------|------------------|------|--------------------|-------------------|
|           |       |      | S               | L1   |                    | XU*              | XV   |                    |                   |
| 6060/5DAY | 0.500 | 0.98 | 10-32UNF        | 0.63 | 1/8 X 1/8 X 0.79   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 11                |
| 6070/5DAY | 0.750 | 1.18 | 12-28UNF        | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 15                |
| 6090/5DAY | 1.125 | 1.38 | 5/16-18UNC      | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 24                |
| 6100/5DAY | 1.125 | 1.38 | 5/16-18UNC      | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 29                |
| 6120/5DBY | 1.500 | 2.17 | 5/16-18UNC      | 0.79 | 3/8 X 3/8 X 1.77   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 64                |

Speed Reducers

Dimensions

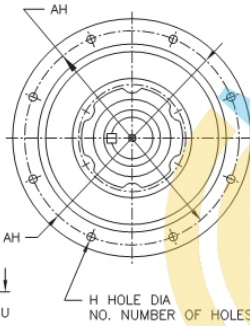
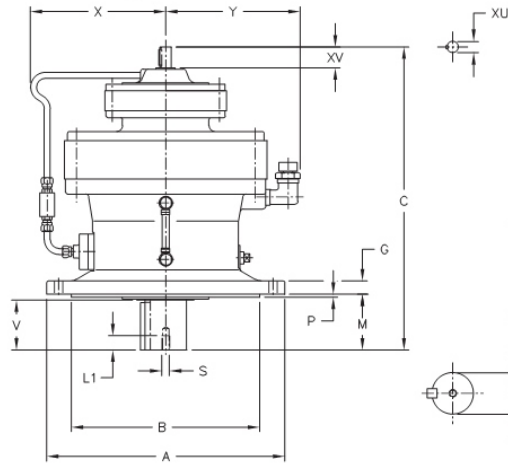




# Dimensions Vertical V-Flange Mount

## Double Reduction

### CVV-6130/5DAY ▶ 6275DAY



#### \*Shaft Tolerances

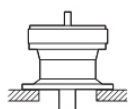
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model CVV | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    | X     | Y     |
|-----------|-------|--------------------|-------|------|------|-----|------|------|-------|-------|-------|
| 6130/5DAY | 10.24 | 7.8720<br>7.8692   | 13.66 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06  | -     | -     |
| 6130/5DBY | 10.24 | 7.8720<br>7.8692   | 14.29 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06  | -     | -     |
| 6130/5DCY | 10.24 | 7.8720<br>7.8692   | 14.53 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06  | -     | -     |
| 6140/5DAY | 10.24 | 7.8720<br>7.8692   | 14.45 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06  | -     | -     |
| 6140/5DBY | 10.24 | 7.8720<br>7.8692   | 15.08 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06  | -     | -     |
| 6140/5DCY | 10.24 | 7.8720<br>7.8692   | 15.31 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06  | -     | -     |
| 6160/5DCY | 13.39 | 10.6277<br>10.6245 | 18.19 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 | 7.72  | 7.87  |
| 6170/5DCY | 15.75 | 12.4385<br>12.4350 | 20.04 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 | 8.58  | 8.86  |
| 6180/5DBY | 16.93 | 13.5802<br>13.5767 | 22.72 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 | 9.17  | 9.45  |
| 6190/5DAY | 19.29 | 15.7456<br>15.7421 | 24.76 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 | 10.04 | 10.63 |
| 6190/5DBY | 19.29 | 15.7456<br>15.7421 | 25.71 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 | 10.04 | 10.63 |
| 6205DAY   | 17.91 | 13.9739<br>13.9704 | 26.38 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 | 13.43 | 11.30 |
| 6205DBY   | 17.91 | 13.9739<br>13.9704 | 27.76 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 | 13.43 | 11.30 |
| 6215DAY   | 19.29 | 15.3519<br>15.3484 | 28.78 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 | 13.70 | 12.05 |
| 6215DBY   | 19.29 | 15.3519<br>15.3484 | 30.71 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 | 13.70 | 12.05 |
| 6225DAY   | 21.06 | 16.3359<br>16.3321 | 30.43 | 1.38 | 1.06 | 8   | 8.27 | 0.39 | 18.70 | 13.86 | 12.83 |
| 6225DBY   | 21.06 | 16.3359<br>16.3321 | 33.86 | 1.38 | 1.06 | 8   | 8.27 | 0.39 | 18.70 | 13.86 | 12.83 |
| 6235DAY   | 22.44 | 17.7139<br>17.7100 | 34.76 | 1.57 | 1.06 | 8   | 9.84 | 0.39 | 20.08 | 14.13 | 13.54 |
| 6235DBY   | 22.44 | 17.7139<br>17.7100 | 36.93 | 1.57 | 1.06 | 8   | 9.84 | 0.39 | 20.08 | 14.13 | 13.54 |

#### 4.82 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Vertical V-Flange Mount

Double Reduction  
CVV-6130/5DAY ▶ 6275DAY (cont.)

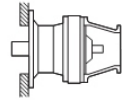
All dimensions are in inches

| Model<br>CVV | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    | X     | Y     |
|--------------|-------|--------------------|-------|------|------|-----|-------|------|-------|-------|-------|
| 6245DAY      | 25.00 | 19.0918<br>19.0880 | 36.26 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 | 14.57 | 14.61 |
| 6245DBY      | 25.00 | 19.0918<br>19.0880 | 38.39 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 | 14.57 | 14.61 |
| 6255DAY      | 26.97 | 21.0600<br>21.0557 | 42.56 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 | 15.55 | 15.71 |
| 6255DBY      | 26.97 | 21.0600<br>21.0557 | 44.61 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 | 15.55 | 15.71 |
| 6265DAY      | 29.53 | 22.4380<br>22.4336 | 48.94 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 | 16.81 | 16.97 |
| 6275DAY      | 45.67 | 35.4297<br>35.4242 | 59.21 | 2.36 | 1.54 | 8   | 13.98 | 0.39 | 40.16 | 24.02 | 24.13 |

| Model<br>CVV | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    | Approx.<br>Wt. (lb.) |
|--------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|----------------------|
|              | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |                      |
| 6130/5DAY    | 1.875           | 2.40  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16     | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 89                   |
| 6130/5DBY    | 1.875           | 2.40  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16     | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 95                   |
| 6130/5DCY    | 1.875           | 2.40  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16     | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 97                   |
| 6140/5DAY    | 1.875           | 3.19  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   | 89                   |
| 6140/5DBY    | 1.875           | 3.19  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 95                   |
| 6140/5DCY    | 1.875           | 3.19  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 | 97                   |
| 6160/5DAY    | 2.250           | 3.15  | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95     | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 198                  |
| 6170/5DAY    | 2.750           | 3.31  | 1/2-13UNC  | 0.94 | 5/8 X 5/8 X 3.15     | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 276                  |
| 6180/5DAY    | 3.125           | 3.94  | 1/2-13UNC  | 0.94 | 3/4 X 3/4 X 3.74     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 377                  |
| 6190/5DAY    | 3.625           | 4.92  | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92     | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 505                  |
| 6190/5DBY    | 3.625           | 4.92  | 3/4-10UNC  | 1.34 | 7/8 X 7/8 X 4.92     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 529                  |
| 6205DAY      | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 | 542                  |
| 6205DBY      | 3.875           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 569                  |
| 6215DAY      | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 734                  |
| 6215DBY      | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 783                  |
| 6225DAY      | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 | 900                  |
| 6225DBY      | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 1003                 |
| 6235DAY      | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 1125                 |
| 6235DBY      | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 1200                 |
| 6245DAY      | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   | 1332                 |
| 6245DBY      | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   | 1396                 |
| 6255DAY      | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 | 2040                 |
| 6255DBY      | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 2190                 |
| 6265DAY      | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 2789                 |
| 6275DAY      | 7.000           | 12.60 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   | 5865                 |

Speed  
Reducers

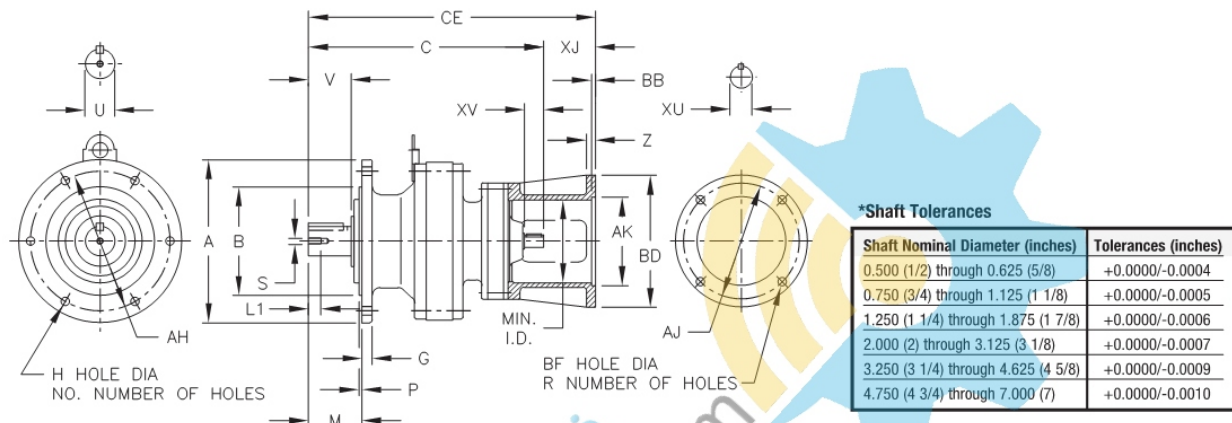
Dimensions



## Dimensions Universal V-Flange Mount, C-Face

### Double Reduction

### CNVJ-6060/5DAY ▶ 6120/5DBY



All dimensions are in inches

| Model<br>CNVJ | A    | B                | C     | G    | H    | NO. | M    | P    | AH   |
|---------------|------|------------------|-------|------|------|-----|------|------|------|
| 6060/5DAY     | 4.72 | 3.1484<br>3.1466 | 7.01  | 0.31 | 0.35 | 6   | 1.34 | 0.12 | 4.02 |
| 6070/5DAY     | 6.30 | 4.3293<br>4.3272 | 7.24  | 0.35 | 0.43 | 4   | 1.65 | 0.12 | 5.28 |
| 6090/5DAY     | 6.30 | 4.3293<br>4.3272 | 9.57  | 0.35 | 0.43 | 4   | 1.89 | 0.12 | 5.28 |
| 6100/5DAY     | 6.30 | 4.3293<br>4.3272 | 10.12 | 0.35 | 0.43 | 4   | 1.89 | 0.12 | 5.28 |
| 6120/5DBY     | 8.27 | 5.5101<br>5.5076 | 12.28 | 0.51 | 0.43 | 6   | 2.72 | 0.16 | 7.09 |

| Model<br>CNVJ | Low Speed Shaft |      |            |      |                    | High Speed Shaft |      |                    |
|---------------|-----------------|------|------------|------|--------------------|------------------|------|--------------------|
|               | U*              | V    | S          | L1   | Key                | XU*              | XV   | Key                |
| 6060/5DAY     | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6070/5DAY     | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6090/5DAY     | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6100/5DAY     | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6120/5DBY     | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |

| Model<br>CNVJ | Motor<br>Frame | AJ   | AK    | BD   | BB | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|----|------|---|-------|------|------|--------------|--------------------|
| 6060/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 8.79  | 1.78 | 0.47 | 2.44         | 14                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.17  | 2.16 | 0.47 | 2.44         | 14                 |
| 6070/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.02  | 1.78 | 0.47 | 2.44         | 18                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 9.40  | 2.16 | 0.47 | 2.44         | 18                 |
| 6090/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.35 | 1.78 | 0.47 | 2.44         | 27                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.72 | 2.16 | 0.47 | 2.44         | 27                 |
|               | 56C-145TC      | 5.87 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.13 | 2.56 | 0.47 | 3.15         | 30                 |
| 6100/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 11.90 | 1.78 | 0.47 | 2.44         | 32                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 12.28 | 2.16 | 0.47 | 2.44         | 32                 |
|               | 56C-145TC      | 5.87 | 4.500 | 6.69 | -  | 0.43 | 4 | 12.68 | 2.56 | 0.47 | 3.15         | 34                 |
| 6120/5DBY     | 42C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.06 | 1.78 | 0.47 | 2.44         | 69                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -  | 0.28 | 4 | 14.44 | 2.16 | 0.47 | 2.44         | 69                 |
|               | 56C-145TC      | 5.87 | 4.500 | 6.69 | -  | 0.43 | 4 | 14.91 | 2.63 | 0.47 | 4.21         | 71                 |

#### 4.84 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

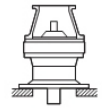
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Speed  
Reducers

Dimensions

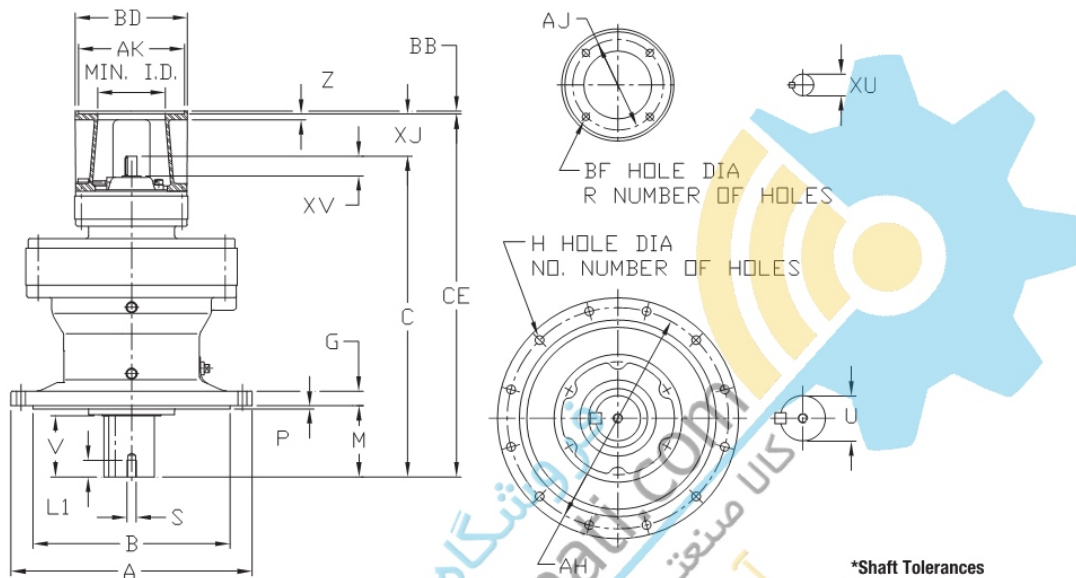




## Dimensions Vertical V-Flange Mount, C-Face

### Double Reduction

### CVVJ-6130/5DAY ▶ 6140/5DCY



All dimensions are in inches

#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

Speed  
Reducers

Dimensions

| Model<br>CVVJ | A     | B                | C     | G    | H    | NO. | M    | P    | AH   |
|---------------|-------|------------------|-------|------|------|-----|------|------|------|
| 6130/5DAY     | 10.24 | 7.8720<br>7.8692 | 13.66 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06 |
| 6130/5DBY     | 10.24 | 7.8720<br>7.8692 | 14.29 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06 |
| 6130/5DCY     | 10.24 | 7.8720<br>7.8692 | 14.53 | 0.59 | 0.43 | 6   | 2.99 | 0.16 | 9.06 |
| 6140/5DAY     | 10.24 | 7.8720<br>7.8692 | 14.45 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06 |
| 6140/5DBY     | 10.24 | 7.8720<br>7.8692 | 15.08 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06 |
| 6140/5DCY     | 10.24 | 7.8720<br>7.8692 | 15.31 | 0.59 | 0.43 | 6   | 3.78 | 0.16 | 9.06 |

| Model<br>CVVJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|---------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|               | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6130/5DAY     | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6130/5DBY     | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6130/5DCY     | 1.875           | 2.40 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.16 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6140/5DAY     | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.500            | 0.98 | 1/8 X 1/8 X 0.71   |
| 6140/5DBY     | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |
| 6140/5DCY     | 1.875           | 3.19 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.625            | 0.98 | 3/16 X 3/16 X 0.75 |

#### 4.86 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified.  
Certified prints are available after receipt of an order; consult factory.



## Dimensions Vertical V-Flange Mount, C-Face

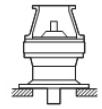
### Double Reduction CVVJ-6130/5DAY ▶ 6140/5DCY (cont.)

All dimensions are in inches

| Model<br>CVVJ | Motor<br>Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|------|------|---|-------|------|------|--------------|--------------------|
| 6130/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.44 | 1.78 | 0.47 | 2.44         | 93                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 15.82 | 2.16 | 0.47 | 2.44         | 93                 |
|               | 56C~143TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.22 | 2.56 | 0.47 | 4.21         | 95                 |
| 6130/5DBY     | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.07 | 1.78 | 0.47 | 2.44         | 99                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.45 | 2.16 | 0.47 | 2.44         | 101                |
|               | 56C~143TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 16.92 | 2.63 | 0.47 | 4.21         | 103                |
| 6130/5DCY     | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.69 | 2.16 | 0.47 | 2.44         | 102                |
|               | 56C~145TC      | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.15 | 2.63 | 0.47 | 4.21         | 104                |
| 6140/5DAY     | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.23 | 1.78 | 0.47 | 2.44         | 93                 |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.61 | 2.16 | 0.47 | 2.44         | 93                 |
|               | 56C~143TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.01 | 2.56 | 0.47 | 4.21         | 95                 |
| 6140/5DBY     | 42C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 16.86 | 1.78 | 0.47 | 2.44         | 100                |
|               | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.24 | 2.16 | 0.47 | 2.44         | 100                |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.70 | 2.63 | 0.47 | 4.21         | 102                |
| 6140/5DCY     | 48C            | 3.75 | 3.000 | 4.33 | -    | 0.28 | 4 | 17.47 | 2.16 | 0.47 | 2.44         | 103                |
|               | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 17.94 | 2.63 | 0.47 | 4.21         | 104                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 18.98 | 3.67 | 0.47 | 5.43         | 108                |

Speed  
Reducers

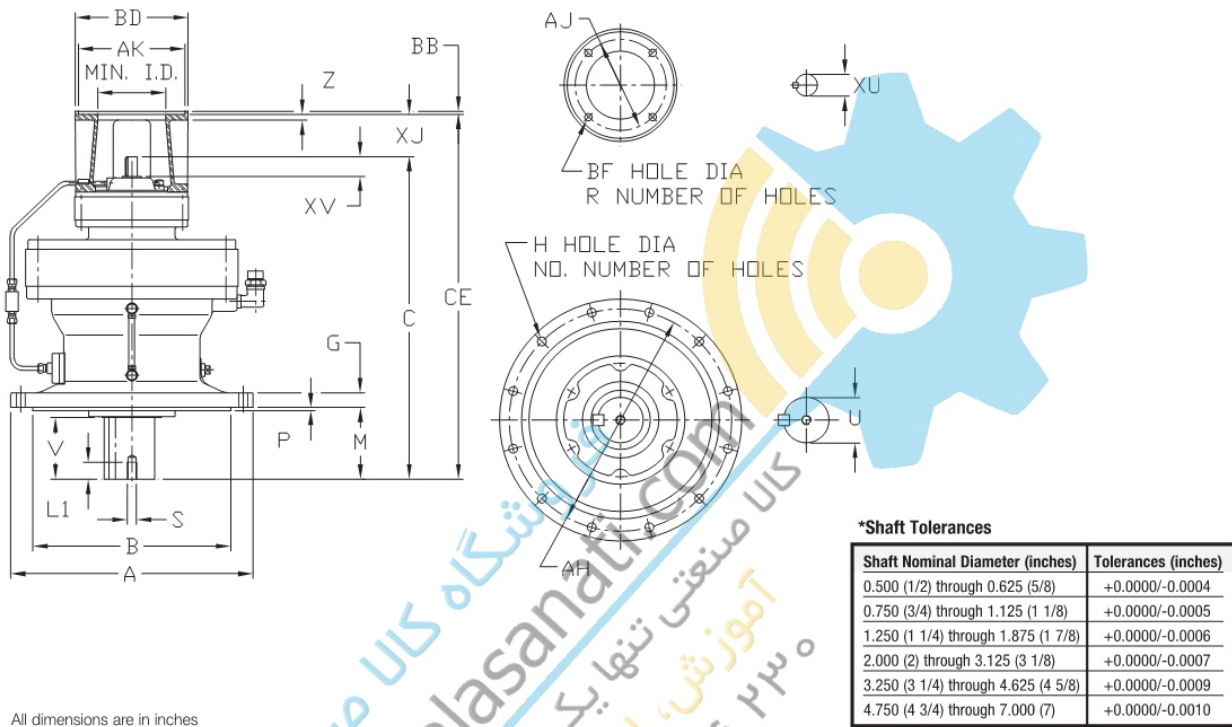
Dimensions



## Dimensions Vertical V-Flange Mount, C-Face

### Double Reduction

### CVVJ-6160/5DCY ▶ 6205DBY



All dimensions are in inches

Speed  
Reducers

Dimensions

| Model<br>CVVJ | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    |
|---------------|-------|--------------------|-------|------|------|-----|------|------|-------|
| 6160/5DCY     | 13.39 | 10.6277<br>10.6245 | 18.19 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 |
| 6170/5DCY     | 15.75 | 12.4385<br>12.4350 | 20.04 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 |
| 6180/5DBY     | 16.93 | 13.5802<br>13.5767 | 22.72 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 |
| 6190/5DAY     | 19.29 | 15.7456<br>15.7421 | 24.76 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| 6190/5DBY     | 19.29 | 15.7456<br>15.7421 | 25.71 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| 6205DAY       | 17.91 | 13.9739<br>13.9704 | 26.38 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |
| 6205DBY       | 17.91 | 13.9739<br>13.9704 | 27.76 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |

| Model<br>CVVJ | Low Speed Shaft |      |           |      |                  | High Speed Shaft |      |                    |
|---------------|-----------------|------|-----------|------|------------------|------------------|------|--------------------|
|               | U*              | V    | S         | L1   | Key              | XU*              | XV   | Key                |
| 6160/5DCY     | 2.250           | 3.15 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6170/5DCY     | 2.750           | 3.31 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6180/5DBY     | 3.125           | 3.94 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6190/5DAY     | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6190/5DBY     | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6205DAY       | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.750            | 1.38 | 3/16 X 3/16 X 1.02 |
| 6205DBY       | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |

#### 4.88 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Vertical V-Flange Mount, C-Face

### Double Reduction CVVJ-6160/5DCY ▶ 6205DBY (cont.)

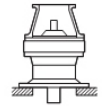
All dimensions are in inches

| Model<br>CVVJ | Motor<br>Frame | AJ   | AK    | BD   | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|------|-------|------|------|------|---|-------|------|------|--------------|--------------------|
| 6160/5DCY     | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 20.81 | 2.63 | 0.47 | 4.21         | 208                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 21.56 | 3.37 | 0.47 | 5.43         | 212                |
| 6170/5DCY     | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 22.67 | 2.63 | 0.47 | 4.21         | 285                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 23.41 | 3.37 | 0.47 | 5.43         | 289                |
| 6180/5DBY     | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 25.34 | 2.63 | 0.47 | 4.21         | 389                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 26.09 | 3.37 | 0.47 | 5.43         | 393                |
|               | 213TC~215TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 26.72 | 4.00 | 1.10 | 5.43         | 400                |
|               | 254TC~256TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 27.65 | 4.93 | 0.57 | 5.08         | 402                |
| 6190/5DAY     | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 27.39 | 2.63 | 0.47 | 4.21         | 515                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 28.13 | 3.37 | 0.47 | 5.43         | 518                |
| 6190/5DBY     | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 28.33 | 2.63 | 0.47 | 4.21         | 541                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 29.08 | 3.37 | 0.47 | 5.43         | 545                |
|               | 213TC~215TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 29.71 | 4.00 | 1.10 | 5.43         | 552                |
|               | 254TC~256TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 30.64 | 4.93 | 0.57 | 5.08         | 554                |
| 6205DAY       | 56C~145TC      | 5.88 | 4.500 | 6.69 | -    | 0.43 | 4 | 29.00 | 2.63 | 0.47 | 4.21         | 552                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 29.75 | 3.37 | 0.47 | 5.43         | 556                |
| 6205DBY       | 56C~145TC      | 5.87 | 4.500 | 6.69 | -    | 0.43 | 4 | 30.38 | 2.63 | 0.47 | 4.21         | 581                |
|               | 182TC~184TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 31.13 | 3.37 | 0.47 | 5.43         | 585                |
|               | 213TC~215TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.54 | 4 | 31.76 | 4.00 | 1.10 | 5.43         | 592                |
|               | 254TC~256TC    | 7.25 | 8.500 | 8.98 | 0.22 | 0.55 | 4 | 32.69 | 4.93 | 0.57 | 5.08         | 593                |

Speed  
Reducers

Dimensions

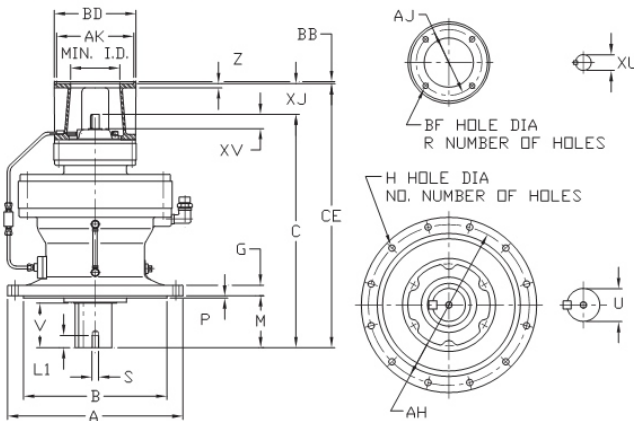




# Dimensions Vertical V-Flange Mount, C-Face

## Double Reduction

### CVVJ-6215DAY ▶ 6275DAY



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

All dimensions are in inches

| Model<br>CVVJ | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    |
|---------------|-------|--------------------|-------|------|------|-----|-------|------|-------|
| 6215DAY       | 19.29 | 15.3519<br>15.3484 | 28.78 | 1.38 | 0.94 | 8   | 7.99  | 0.28 | 17.32 |
| 6215DBY       | 19.29 | 15.3519<br>15.3484 | 30.71 | 1.38 | 0.94 | 8   | 7.99  | 0.28 | 17.32 |
| 6225DAY       | 21.06 | 16.3359<br>16.3321 | 30.43 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 |
| 6225DBY       | 21.06 | 16.3359<br>16.3321 | 33.86 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 |
| 6235DAY       | 22.44 | 17.7139<br>17.7100 | 34.76 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 |
| 6235DBY       | 22.44 | 17.7139<br>17.7100 | 36.93 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 |
| 6245DAY       | 25.00 | 19.0918<br>19.0880 | 36.26 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| 6245DBY       | 25.00 | 19.0918<br>19.0880 | 38.39 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| 6255DAY       | 26.97 | 21.0600<br>21.0557 | 42.66 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| 6255DBY       | 26.97 | 21.0600<br>21.0557 | 44.61 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| 6265DAY       | 29.53 | 22.4380<br>22.4336 | 48.94 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 |
| 6275DAY       | 45.67 | 35.4297<br>35.4242 | 59.21 | 2.36 | 1.54 | 8   | 13.98 | 0.39 | 40.16 |

| Model<br>CVVJ | Low Speed Shaft |       |            |      |                      | High Speed Shaft |      |                    |
|---------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|
|               | U*              | V     | S          | L1   | Key                  | XU*              | XV   | Key                |
| 6215DAY       | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6215DBY       | 4.250           | 6.50  | 3/4-10UNC  | 1.34 | 1 X 1 X 6.50         | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6225DAY       | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |
| 6225DBY       | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6235DAY       | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6235DBY       | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6245DAY       | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |
| 6245DBY       | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |
| 6255DAY       | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.375            | 2.17 | 5/16 X 5/16 X 2.16 |
| 6255DBY       | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6265DAY       | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |
| 6275DAY       | 7.000           | 12.60 | 1-1/4-7UNC | 2.05 | 1-3/4 X 1-1/4 X 13   | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |

#### 4.90 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



# Dimensions Vertical V-Flange Mount, C-Face

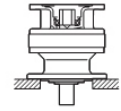
## Double Reduction CVVJ-6215DAY ▶ 6275DAY (cont.)

All dimensions are in inches

| Model<br>CVVJ | Motor<br>Frame | AJ    | AK     | BD    | BB   | BF   | R | CE    | XJ   | Z    | Min.<br>I.D. | Approx<br>Wt. (lb) |
|---------------|----------------|-------|--------|-------|------|------|---|-------|------|------|--------------|--------------------|
| 6215DAY       | 56C~145TC      | 5.87  | 4.500  | 6.69  | -    | 0.43 | 4 | 31.41 | 2.63 | 0.47 | 4.21         | 746                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 32.15 | 3.37 | 0.47 | 5.43         | 750                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.54 | 4 | 32.78 | 4.00 | 1.10 | 5.43         | 757                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 33.71 | 4.93 | 0.57 | 5.08         | 759                |
| 6215DBY       | 56C~145TC      | 5.87  | 4.500  | 6.69  | -    | 0.43 | 4 | 33.33 | 2.63 | 0.47 | 4.21         | 824                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.08 | 3.37 | 0.57 | 5.71         | 829                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.71 | 4.00 | 1.20 | 5.71         | 836                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 35.46 | 4.75 | 0.57 | 5.71         | 831                |
| 6225DAY       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 33.06 | 2.63 | 0.47 | 4.21         | 912                |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 33.81 | 3.37 | 0.47 | 5.43         | 916                |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 34.43 | 4.00 | 1.10 | 5.43         | 923                |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 35.36 | 4.93 | 0.57 | 5.08         | 924                |
| 6225DBY       | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 37.24 | 3.38 | 0.57 | 5.71         | 1041               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 37.86 | 4.00 | 1.20 | 5.71         | 1048               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.61 | 4.75 | 0.57 | 5.71         | 1043               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 39.30 | 5.44 | 0.57 | 7.87         | 1054               |
| 6235DAY       | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 37.39 | 2.63 | 0.47 | 4.21         | 1166               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.14 | 3.37 | 0.57 | 5.71         | 1171               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 38.76 | 4.00 | 1.20 | 5.71         | 1178               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.52 | 4.75 | 0.57 | 5.71         | 1173               |
| 6235DBY       | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.43 | 3.50 | 0.57 | 5.71         | 1247               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.93 | 4.00 | 1.07 | 5.71         | 1253               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.68 | 4.75 | 0.57 | 5.71         | 1261               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 42.37 | 5.44 | 0.57 | 7.87         | 1256               |
| 6245DAY       | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 43.43 | 6.50 | 0.57 | 7.87         | 1260               |
|               | 56C~145TC      | 5.88  | 4.500  | 6.69  | -    | 0.43 | 4 | 38.89 | 2.63 | 0.47 | 4.21         | 1373               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 39.63 | 3.37 | 0.57 | 5.71         | 1378               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 40.26 | 4.00 | 1.20 | 5.71         | 1385               |
| 6245DBY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.01 | 4.75 | 0.57 | 5.71         | 1380               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 41.89 | 3.50 | 0.57 | 5.71         | 1444               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 42.39 | 4.00 | 1.07 | 5.71         | 1449               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 43.14 | 4.75 | 0.57 | 5.71         | 1458               |
| 6255DAY       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 43.82 | 5.44 | 0.57 | 7.87         | 1452               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 44.89 | 6.50 | 0.57 | 7.87         | 1456               |
|               | 182TC~184TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 45.94 | 3.38 | 0.57 | 5.71         | 2078               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 46.56 | 4.00 | 1.20 | 5.71         | 2084               |
| 6255DBY       | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 47.31 | 4.75 | 0.57 | 5.71         | 2080               |
|               | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 48.00 | 5.44 | 0.57 | 7.87         | 2091               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 48.73 | 4.13 | 1.29 | 5.71         | 2259               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 49.36 | 4.75 | 0.57 | 5.71         | 2252               |
| 6265DAY       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 50.04 | 5.44 | 0.57 | 7.87         | 2261               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 51.11 | 6.50 | 0.57 | 7.87         | 2286               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.06 | 4.13 | 1.29 | 5.71         | 2859               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 53.69 | 4.75 | 0.57 | 5.71         | 2852               |
| 6275DAY       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 54.37 | 5.44 | 0.57 | 7.87         | 2861               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 55.44 | 6.50 | 0.57 | 7.87         | 2886               |
|               | 213TC~215TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 63.34 | 4.13 | 1.29 | 5.71         | 5935               |
|               | 254TC~256TC    | 7.25  | 8.500  | 8.98  | 0.22 | 0.55 | 4 | 63.96 | 4.75 | 0.57 | 5.71         | 5928               |
| 6275DAY       | 284TC~286TC    | 9.00  | 10.500 | 11.10 | 0.22 | 0.55 | 4 | 64.65 | 5.44 | 0.57 | 7.87         | 5937               |
|               | 324TC~326TC    | 11.00 | 12.500 | 13.86 | 0.22 | 0.71 | 4 | 65.71 | 6.50 | 0.57 | 7.87         | 5962               |

Speed  
Reducers

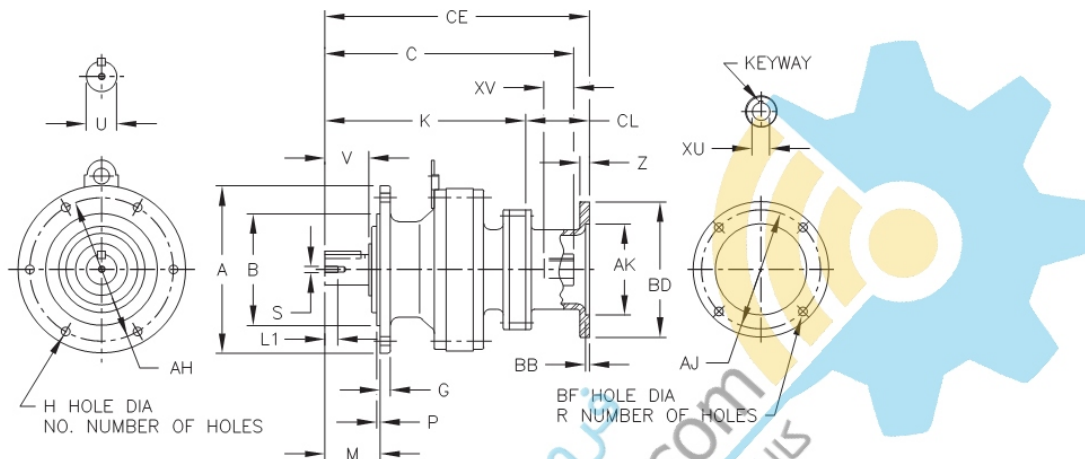
Dimensions



# Dimensions Universal and Vertical V-Flange Mount, Hollow Input

## Double Reduction

CNVX-6065DAY ▶ 6125DBY, CVVX-6130/5DAY ▶ 6140/5DCY



All dimensions are in inches

| Model<br>CNVX, CVVX <sup>(1)</sup> | A     | B                | G    | H    | K     | NO. | M    | P    | AH   |
|------------------------------------|-------|------------------|------|------|-------|-----|------|------|------|
| 6065DAY                            | 4.72  | 3.1484<br>3.1466 | 0.31 | 0.35 | 3.56  | 6   | 1.34 | 0.12 | 4.02 |
| 6075DAY                            | 6.30  | 4.3293<br>4.3272 | 0.35 | 0.43 | 3.50  | 4   | 1.65 | 0.12 | 5.28 |
| 6095DAY                            | 6.30  | 4.3293<br>4.3272 | 0.35 | 0.43 | 7.48  | 4   | 1.89 | 0.12 | 5.28 |
| 6105DAY                            | 6.30  | 4.3293<br>4.3272 | 0.35 | 0.43 | 6.14  | 4   | 1.89 | 0.12 | 5.28 |
| 6125DBY                            | 8.27  | 5.5101<br>5.5076 | 0.51 | 0.43 | 7.20  | 6   | 2.72 | 0.16 | 7.09 |
| 6130/5DAY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 11.58 | 6   | 2.99 | 0.16 | 9.06 |
| 6130/5DBY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 11.94 | 6   | 2.99 | 0.16 | 9.06 |
| 6130/5DCY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 9.49  | 6   | 2.99 | 0.16 | 9.06 |
| 6140/5DAY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 12.36 | 6   | 3.78 | 0.16 | 9.06 |
| 6140/5DBY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 8.94  | 6   | 3.78 | 0.16 | 9.06 |
| 6140/5DCY                          | 10.24 | 7.8270<br>7.8692 | 0.59 | 0.43 | 13.26 | 6   | 3.78 | 0.16 | 9.06 |

### \*Shaft Tolerances

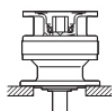
| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |

Note: [1] Models 6065DA ~ 6215DB are type CNVX; models 6135DC ~ 6145DB are type CVVX

## 4.92 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.





## Dimensions Universal and Vertical V-Flange Mount, Hollow Input

### Double Reduction

### CNVX-6065DAY ▶ 6125DBY, CVVX-6130/5DAY ▶ 6140/5DCY (cont.)

All dimensions are in inches

| Model<br>CNVX<br>CVVX <sup>[1]</sup> | Low Speed Shaft |      |            |      |                    |
|--------------------------------------|-----------------|------|------------|------|--------------------|
|                                      | U*              | V    | S          | L1   | Key                |
| 6065DAY                              | 0.500           | 0.98 | 10-32UNF   | 0.63 | 1/8 X 1/8 X 0.79   |
| 6075DAY                              | 0.750           | 1.18 | 12-28UNF   | 0.63 | 3/16 X 3/16 X 1.06 |
| 6095DAY                              | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   |
| 6105DAY                              | 1.125           | 1.38 | 5/16-18UNC | 0.79 | 1/4 X 1/4 X 1.18   |
| 6125DBY                              | 1.500           | 2.17 | 5/16-18UNC | 0.79 | 3/8 X 3/8 X 1.77   |
| 6130/5DAY                            | 1.875           | 2.40 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16   |
| 6130/5DBY                            | 1.875           | 2.40 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16   |
| 6130/5DCY                            | 1.875           | 2.40 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.16   |
| 6140/5DAY                            | 1.875           | 3.19 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95   |
| 6140/5DBY                            | 1.875           | 3.19 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95   |
| 6140/5DCY                            | 1.875           | 3.19 | 3/8-16UNC  | 0.71 | 1/2 X 1/2 X 2.95   |

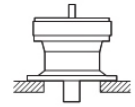
| Model<br>CNVX, CVVX <sup>(1)</sup> | Motor<br>Frame | AJ   | AK   | BD   | BB   | BF   | R | CE    | CL   | C     | Z    | High Speed Shaft            |      |             | Approx<br>Wt. (lb) |
|------------------------------------|----------------|------|------|------|------|------|---|-------|------|-------|------|-----------------------------|------|-------------|--------------------|
|                                    |                |      |      |      |      |      |   |       |      |       |      | XU                          | XV   | Keyway      |                    |
| 6065DAY                            | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 7.91  | 2.99 | 7.28  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 15                 |
| 6075DAY                            | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 8.15  | 2.99 | 7.13  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 19                 |
| 6095DAY                            | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 10.47 | 2.99 | 9.45  | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 27                 |
| 6105DAY                            | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 11.02 | 2.99 | 10.00 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 33                 |
| 6125DBY                            | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 13.27 | 3.35 | 12.24 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 68                 |
|                                    | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 13.27 | 3.35 | 12.64 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57 | 3/16 x 3/32 | 68                 |
| 6130/5DAY                          | 56C            | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 14.57 | 2.99 | 13.55 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 94                 |
| 6130/5DBY                          | 56C            | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 15.29 | 3.35 | 14.42 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 100                |
|                                    | 143TC-145TC    | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 15.29 | 3.35 | 14.65 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57 | 3/16 x 3/32 | 100                |
| 6130/5DCY                          | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 15.63 | 3.15 | 14.57 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 101                |
|                                    | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 15.63 | 3.15 | 15.04 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65 | 3/16 x 3/32 | 101                |
| 6140/5DAY                          | 56C            | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 15.35 | 2.99 | 14.33 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.10 | 3/16 x 3/32 | 94                 |
| 6140/5DBY                          | 56C            | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 16.06 | 3.35 | 15.04 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 99                 |
|                                    | 143TC-145TC    | 5.88 | 4.50 | 6.69 | 0.20 | 0.43 | 4 | 16.06 | 3.35 | 15.43 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.57 | 3/16 x 3/32 | 99                 |
| 6140/5DCY                          | 56C            | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 16.41 | 3.15 | 15.35 | 0.47 | 0.625<br>+0.0007<br>-0.0000 | 1.18 | 3/16 x 3/32 | 101                |
|                                    | 143TC-145TC    | 5.88 | 4.50 | 6.69 | -    | 0.43 | 4 | 16.41 | 3.15 | 15.82 | 0.47 | 0.875<br>+0.0008<br>-0.0000 | 1.65 | 3/16 x 3/32 | 102                |

Speed  
Reducers

Dimensions

Note: [1] Models 6065DA ~ 6215DB are type CNVX; models 6135DC ~ 6145DB are type CVVX

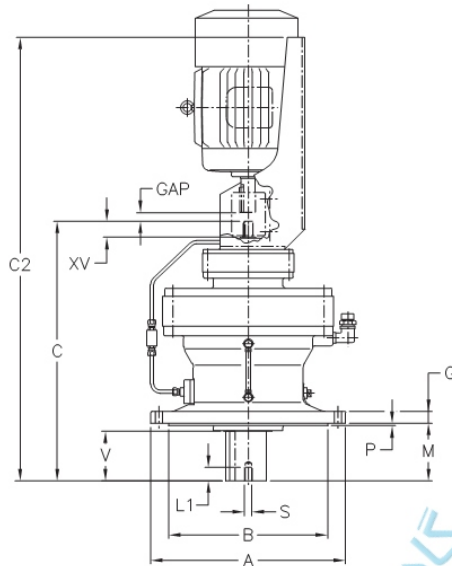




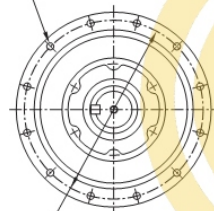
## Dimensions Vertical V-Flange Mount, Shovel Base

### Double Reduction

### CVV-6160/5DCY ▶ 6215DBY-SB



H HOLE DIA  
NO. NUMBER OF HOLES



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

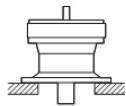
All dimensions are in inches

| Model<br>CVV        | A     | B                  | C     | G    | H    | NO. | M    | P    | AH    |
|---------------------|-------|--------------------|-------|------|------|-----|------|------|-------|
| <b>6160/5DCY-SB</b> | 13.39 | 10.6277<br>10.6245 | 18.19 | 0.79 | 0.43 | 6   | 3.50 | 0.16 | 12.20 |
| <b>6170/5DCY-SB</b> | 15.75 | 12.4385<br>12.4350 | 20.04 | 0.87 | 0.55 | 8   | 3.70 | 0.20 | 14.17 |
| <b>6180/5DBY-SB</b> | 16.93 | 13.5802<br>13.5767 | 22.72 | 0.87 | 0.71 | 8   | 4.33 | 0.20 | 15.35 |
| <b>6190/5DAY-SB</b> | 19.29 | 15.7456<br>15.7421 | 24.76 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| <b>6190/5DBY-SB</b> | 19.29 | 15.7456<br>15.7421 | 25.71 | 1.18 | 0.71 | 12  | 5.71 | 0.24 | 17.72 |
| <b>6205DBY-SB</b>   | 17.91 | 13.9739<br>13.9704 | 27.76 | 1.18 | 0.87 | 8   | 8.03 | 0.20 | 15.94 |
| <b>6215DAY-SB</b>   | 19.29 | 15.3519<br>15.3484 | 28.78 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 |
| <b>6215DBY-SB</b>   | 19.29 | 15.3519<br>15.3484 | 30.71 | 1.38 | 0.94 | 8   | 7.99 | 0.28 | 17.32 |

| Model<br>CVV        | Low Speed Shaft |      |           |      | High Speed Shaft |       |      |
|---------------------|-----------------|------|-----------|------|------------------|-------|------|
|                     | U*              | V    | S         | L1   | Key              | XU*   | XV   |
| <b>6160/5DCY-SB</b> | 2.250           | 3.15 | 3/8-16UNC | 0.71 | 1/2 X 1/2 X 2.95 | 0.750 | 1.38 |
| <b>6170/5DCY-SB</b> | 2.750           | 3.31 | 1/2-13UNC | 0.94 | 5/8 X 5/8 X 3.15 | 0.750 | 1.38 |
| <b>6180/5DBY-SB</b> | 3.125           | 3.94 | 1/2-13UNC | 0.94 | 3/4 X 3/4 X 3.74 | 0.875 | 1.57 |
| <b>6190/5DAY-SB</b> | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.750 | 1.38 |
| <b>6190/5DBY-SB</b> | 3.625           | 4.92 | 3/4-10UNC | 1.34 | 7/8 X 7/8 X 4.92 | 0.875 | 1.57 |
| <b>6205DBY-SB</b>   | 3.875           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.875 | 1.57 |
| <b>6215DAY-SB</b>   | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 0.875 | 1.57 |
| <b>6215DBY-SB</b>   | 4.250           | 6.50 | 3/4-10UNC | 1.34 | 1 X 1 X 6.50     | 1.125 | 1.77 |

#### 4.94 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Vertical V-Flange Mount, Shovel Base

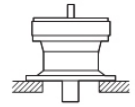
### Double Reduction CVV-6160/5DCY ▶ 6215DBY-SB (cont.)

All dimensions are in inches

| Model        | Dimensions   | 143T  | 145T  | 182T  | 184T | 213T  | 215T | 254T  | 256T | 284T | 286T | 324T | 326T | 364T | 365T |
|--------------|--------------|-------|-------|-------|------|-------|------|-------|------|------|------|------|------|------|------|
| 6160/5DCY-SB | C2           | 32.24 |       | 32.24 |      |       |      |       |      |      |      |      |      |      |      |
|              | GAP          | 0.52  |       | 0.71  |      |       |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR | 231   |       | 229   |      |       |      |       |      |      |      |      |      |      |      |
| 6170/5DCY-SB | C2           | 34.09 |       | 34.09 |      |       |      |       |      |      |      |      |      |      |      |
|              | GAP          | 0.52  |       | 0.71  |      |       |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR | 308   |       | 306   |      |       |      |       |      |      |      |      |      |      |      |
| 6180/5DBY-SB | C2           | 40.91 |       | 40.91 |      | 40.91 |      |       |      |      |      |      |      |      |      |
|              | GAP          | 0.52  |       | 0.71  |      | 0.88  |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR | 453   |       | 428   |      | 425   |      |       |      |      |      |      |      |      |      |
| 6190/5DAY-SB | C2           | 38.82 |       | 38.82 |      |       |      |       |      |      |      |      |      |      |      |
|              | GAP          | 0.52  |       | 0.71  |      |       |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR | 537   |       | 535   |      |       |      |       |      |      |      |      |      |      |      |
| 6190/5DBY-SB | C2           | 43.90 |       | 43.90 |      | 43.90 |      |       |      |      |      |      |      |      |      |
|              | GAP          | 0.52  |       | 0.71  |      | 0.88  |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR | 605   |       | 580   |      | 577   |      |       |      |      |      |      |      |      |      |
| 6205DBY-SB   | C2           |       | 45.94 | 45.94 |      | 45.94 |      |       |      |      |      |      |      |      |      |
|              | GAP          |       | 0.52  | 0.71  |      | 0.88  |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR |       | 645   | 620   |      | 617   |      |       |      |      |      |      |      |      |      |
| 6215DAY-SB   | C2           |       | 46.97 | 46.97 |      | 46.97 |      |       |      |      |      |      |      |      |      |
|              | GAP          |       | 0.52  | 0.71  |      | 0.88  |      |       |      |      |      |      |      |      |      |
|              | WT W/O MOTOR |       | 811   | 785   |      | 782   |      |       |      |      |      |      |      |      |      |
| 6215DBY-SB   | C2           |       |       |       |      | 52.13 |      | 52.13 |      |      |      |      |      |      |      |
|              | GAP          |       |       |       |      | 0.88  |      | 1.00  |      |      |      |      |      |      |      |
|              | WT W/O MOTOR |       |       |       |      | 848   |      | 843   |      |      |      |      |      |      |      |

Speed Reducers

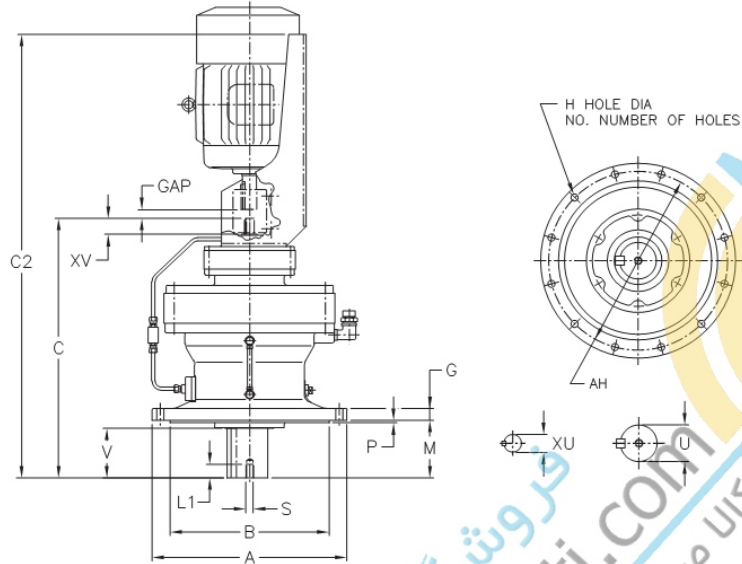
Dimensions



# Dimensions Vertical V-Flange Mount, Shovel Base

## Double Reduction

### CVV-6225DAY ▶ 6265DAY-SB



#### \*Shaft Tolerances

| Shaft Nominal Diameter (inches)     | Tolerances (inches) |
|-------------------------------------|---------------------|
| 0.500 (1/2) through 0.625 (5/8)     | +0.0000/-0.0004     |
| 0.750 (3/4) through 1.125 (1 1/8)   | +0.0000/-0.0005     |
| 1.250 (1 1/4) through 1.875 (1 7/8) | +0.0000/-0.0006     |
| 2.000 (2) through 3.125 (3 1/8)     | +0.0000/-0.0007     |
| 3.250 (3 1/4) through 4.625 (4 5/8) | +0.0000/-0.0009     |
| 4.750 (4 3/4) through 7.000 (7)     | +0.0000/-0.0010     |

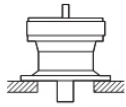
All dimensions are in inches

| Model CVV  | A     | B                  | C     | G    | H    | NO. | M     | P    | AH    |
|------------|-------|--------------------|-------|------|------|-----|-------|------|-------|
| 6225DAY-SB | 21.06 | 16.3359<br>16.3321 | 30.43 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 |
| 6225DBY-SB | 21.06 | 16.3359<br>16.3321 | 33.86 | 1.38 | 1.06 | 8   | 8.27  | 0.39 | 18.70 |
| 6235DAY-SB | 22.44 | 17.7139<br>17.7100 | 34.76 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 |
| 6235DBY-SB | 22.44 | 17.7139<br>17.7100 | 36.93 | 1.57 | 1.06 | 8   | 9.84  | 0.39 | 20.08 |
| 6245DAY-SB | 25.00 | 19.0918<br>19.0880 | 36.26 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| 6245DBY-SB | 25.00 | 19.0918<br>19.0880 | 38.39 | 1.57 | 1.30 | 8   | 9.84  | 0.39 | 22.05 |
| 6255DAY-SB | 26.97 | 21.0600<br>21.0557 | 42.56 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| 6255DBY-SB | 26.97 | 21.0600<br>21.0557 | 44.61 | 1.77 | 1.30 | 8   | 11.61 | 0.39 | 24.02 |
| 6265DAY-SB | 29.53 | 22.4380<br>22.4336 | 48.94 | 1.97 | 1.54 | 8   | 14.17 | 0.39 | 25.98 |

| Model CVV  | Low Speed Shaft |       |            |      | Key                  | High Speed Shaft |      |                    | Key |
|------------|-----------------|-------|------------|------|----------------------|------------------|------|--------------------|-----|
|            | U*              | V     | S          | L1   |                      | XU*              | XV   |                    |     |
| 6225DAY-SB | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 0.875            | 1.57 | 3/16 X 3/16 X 1.38 |     |
| 6225DBY-SB | 4.625           | 6.50  | 3/4-10UNC  | 1.34 | 1-1/4 X 7/8 X 6.5    | 1.375            | 2.17 | 5/16 X 5/16 X 2.17 |     |
| 6235DAY-SB | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |     |
| 6235DBY-SB | 5.000           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |     |
| 6245DAY-SB | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.125            | 1.77 | 1/4 X 1/4 X 1.77   |     |
| 6245DBY-SB | 5.500           | 7.87  | 1-8UNC     | 1.61 | 1-1/4 X 7/8 X 7.87   | 1.500            | 2.56 | 3/8 X 3/8 X 2.56   |     |
| 6255DAY-SB | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.375            | 2.17 | 5/16 X 5/16 X 2.17 |     |
| 6255DBY-SB | 6.250           | 9.45  | 1-1/4-7UNC | 1.93 | 1-1/2 X 1 X 9.45     | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |     |
| 6265DAY-SB | 6.625           | 11.81 | 1-1/4-7UNC | 1.93 | 1-3/4 X 1-1/4 X 11.8 | 1.750            | 2.76 | 3/8 X 3/8 X 2.76   |     |

#### 4.96 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.



## Dimensions Vertical V-Flange Mount, Shovel Base

### Double Reduction CVV-6225DAY ▶ 6265DAY-SB (cont.)

All dimensions are in inches

| Model      | Dimensions   | 143T | 145T  | 182T  | 184T  | 213T  | 215T | 254T  | 256T | 284T  | 286T | 324T  | 326T | 364T | 365T |
|------------|--------------|------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|------|------|
| 6225DAY-SB | C2           |      | 48.62 | 48.62 |       | 48.62 |      | 52.64 |      |       |      |       |      |      |      |
|            | GAP          |      | 0.52  | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | WT W/O MOTOR |      | 976   | 951   |       | 948   |      | 959   |      |       |      |       |      |      |      |
| 6225DBY-SB | C2           |      |       |       |       | 52.91 |      | 58.50 |      |       |      |       |      |      |      |
|            | GAP          |      |       |       |       | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | WT W/O MOTOR |      |       |       |       | 1054  |      | 1118  |      |       |      |       |      |      |      |
| 6235DAY-SB | C2           |      |       | 51.18 |       | 56.18 |      | 56.18 |      |       |      |       |      |      |      |
|            | GAP          |      |       | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | WT W/O MOTOR |      |       | 1168  |       | 1190  |      | 1185  |      |       |      |       |      |      |      |
| 6235DBY-SB | C2           |      |       |       |       | 56.22 |      | 62.20 |      | 62.20 |      |       |      |      |      |
|            | GAP          |      |       |       |       | 0.88  |      | 1.00  |      | 1.00  |      |       |      |      |      |
|            | WT W/O MOTOR |      |       |       |       | 1271  |      | 1324  |      | 1316  |      |       |      |      |      |
| 6245DAY-SB | C2           |      |       | 52.68 |       | 57.68 |      | 57.68 |      |       |      |       |      |      |      |
|            | GAP          |      |       | 0.71  |       | 0.88  |      | 1.00  |      |       |      |       |      |      |      |
|            | WT W/O MOTOR |      |       | 1375  |       | 1397  |      | 1392  |      |       |      |       |      |      |      |
| 6245DBY-SB | C2           |      |       |       |       | 57.68 |      | 63.66 |      | 63.66 |      |       |      |      |      |
|            | GAP          |      |       |       |       | 0.88  |      | 1.00  |      | 1.00  |      |       |      |      |      |
|            | WT W/O MOTOR |      |       |       |       | 1467  |      | 1520  |      | 1512  |      |       |      |      |      |
| 6255DAY-SB | C2           |      |       |       | 58.19 | 61.61 |      | 67.20 |      | 67.20 |      |       |      |      |      |
|            | GAP          |      |       |       | 0.71  | 0.88  |      | 1.00  |      | 1.00  |      |       |      |      |      |
|            | WT W/O MOTOR |      |       |       | 2082  | 2090  |      | 2154  |      | 2146  |      |       |      |      |      |
| 6255DBY-SB | C2           |      |       |       |       | 67.20 |      | 72.28 |      | 72.28 |      | 72.26 |      |      |      |
|            | GAP          |      |       |       |       | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |      |      |
|            | WT W/O MOTOR |      |       |       |       | 2290  |      | 2349  |      | 2339  |      |       |      |      |      |
| 6265DAY-SB | C2           |      |       |       |       | 71.54 |      | 71.54 |      | 76.61 |      | 76.61 |      |      |      |
|            | GAP          |      |       |       |       | 1.00  |      | 1.00  |      | 1.00  |      | 1.50  |      |      |      |
|            | WT W/O MOTOR |      |       |       |       | 2895  |      | 2890  |      | 2949  |      | 2939  |      |      |      |

Speed Reducers

Dimensions



## CYCLO® 6000 Speed Reducers

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Speed  
Reducers

Dimensions

### 4.98 Dimensions

Dimensions shown are for reference only and are subject to change without notice, unless certified. Certified prints are available after receipt of an order; consult factory.

Sumitomo Drive Technologies Cyclo® 6000 Series

5

# Technical Information



Speed  
Reducers

Technical  
Information

## Lubrication

Cyclo® Reducers are either Grease lubricated or Oil lubricated. Refer to pages 5.3 and 5.4 to determine the unit lubrication type.

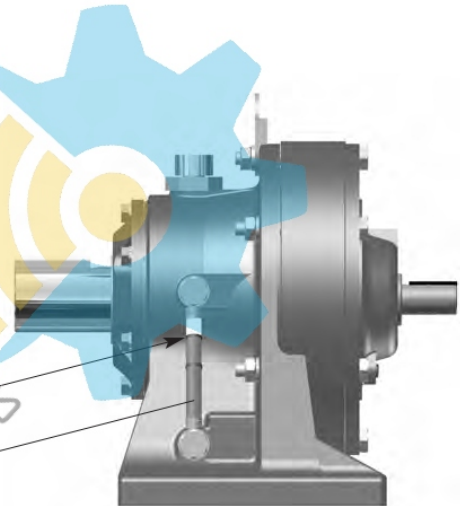
- **Grease lubricated** reducers are filled with grease prior to shipment and are ready for installation and operation
- **Oil lubricated** reducers must be filled with the proper amount of approved oil before installation and operation
- **Lubrication methods** (grease or oil) are specified for Cyclo® driven at standard input speed.

### Approved Greases

Grease lubricated reducers are filled with grease prior to shipment and are ready for installation and operation. This information is provided for maintenance purposes.

| Ambient Temperature |           | Cyclo                                  | Planetary                      |
|---------------------|-----------|----------------------------------------|--------------------------------|
| °F                  | °C        | ExxonMobil                             | Shell Oil                      |
| 14 to 122           | -10 to 50 | Exxon Unirex N2 Grease (NLGI Grade #2) | Shell Gadus S2 V220 (0 Grease) |

Oil Fill Level  
Oil Sight Gauge



When the Cyclo® reducer will be used under widely fluctuating temperatures or ambient temperatures (other than those listed here) or any other special conditions, consult the factory.

### Approved Oils

Oil lubricated reducers must be filled with oil prior to operation. Fill the reducer to the correct level with the recommended oil.

|                   |                 |                 |                       |                |                 |
|-------------------|-----------------|-----------------|-----------------------|----------------|-----------------|
| <b>ExxonMobil</b> | Spartan EP      | <b>Idemitsu</b> | Daphne Super Gear Oil | <b>BP</b>      | Energol GR-XP   |
| <b>Mobil</b>      | Mobilgear 600XP | <b>Kluber</b>   | Kluberoil GEM1        | <b>Castrol</b> | Alpha SP        |
| <b>Shell</b>      | Omala S2 G      | <b>Caltex</b>   | Meropa                | <b>Gulf</b>    | EP Lubricant HD |

Ambient Temperature

| Ambient Temperature |           |    |    |                 |    |     |     |
|---------------------|-----------|----|----|-----------------|----|-----|-----|
| °F                  | 14        | 32 | 50 | 68              | 86 | 104 | 122 |
| °C                  | -10       | 0  | 10 | 20              | 30 | 40  | 50  |
| ISO VG              |           |    |    |                 |    |     |     |
|                     | 68        |    |    |                 |    |     |     |
|                     | 100 / 150 |    |    |                 |    |     |     |
|                     |           |    |    | 220 / 320 / 460 |    |     |     |

For use in winter or relatively low ambient temperatures, use the lower viscosity oil specified for each ambient temperature range.

For consistent use in ambient temperatures outside of the range 32°F to 104°F (0°C to 40°C), consult factory.

Speed Reducers

Lubrication

| Frame Size       | Reduction Ratio |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|------------------|-----------------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|                  | 3               | 5 | 6 | 8 | 11 | 13 | 15 | 17 | 21 | 25 | 29 | 35 | 43 | 51 | 59 | 71 | 87 | 119 |
| 6060, 6065       | Grease          |   |   |   |    |    |    |    |    |    |    |    |    |    | 59 |    |    |     |
| 6070, 6075       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6080, 6085       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6090, 6095       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6100, 6105, 610H |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6110, 6115       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6120, 6125, 612H | Oil             |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 87 |     |
| 6130, 6135       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6140, 6145, 614H |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6160, 6165, 616H |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6170, 6175       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6180, 6185       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6190, 6195       |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6205             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6215             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6225             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6235             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6245             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6255             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6265             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6275             |                 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

[illegible]



## Lubrication continued



| Frame Size | Reduction Ratio         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|------------|-------------------------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|            | 3                       | 5 | 6 | 8 | 11 | 13 | 15 | 17 | 21 | 25 | 29 | 35 | 43 | 51 | 59 | 71 | 87 | 119 |
| 6060, 6065 | Grease                  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6070, 6075 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6080, 6085 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6090, 6095 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6100, 6105 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6110, 6115 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6120, 6125 | Maintenance Free Grease |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6130, 6135 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6140, 6145 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6160, 6165 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6170, 6175 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6180, 6185 |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6190, 6195 | Oil                     |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6205       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6215       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6225       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6235       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6245       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6255       | Forced Oil              |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6265       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 6275       |                         |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |



| Frame Size                                                                                                                                                                                                             | 104                     | 121 | 143 | 165 | 195 | 231 | 273 | 319 | 377 | 473 | 559 | 649 | 731 | 841 | 1003 | 1015 | 1247 | 1479 | 1849 | 2065 | 2537 | 3045 | 3481 | 4437 | 5133 | 6177 | 7569 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 6060DA, 6065DA<br>6070DA, 6075DA<br>6090DA, 6095DA<br>6100DA, 6105DA<br>6120DA, 6125DA<br>6120DB, 6125DB                                                                                                               | Maintenance Free Grease |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 6130DA, 6135DA<br>6130DB, 6135DB<br>6130DC, 6135DC<br>6140DA, 6140DB, 6140DC<br>6145DA, 6145DB, 6145DC<br>6160DA, 6165DA<br>6160DB, 6165DB<br>6170DA, 6175DA<br>6170DB, 6175DB<br>6180DA, 6185DA                       | Grease                  |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 6160DC, 6165DC<br>6170DC, 6175DC<br>6180DB, 6185DB<br>6190DA, 6195DA<br>6190DB, 6195DB<br>6205DA, 6205DB<br>6215DA, 6215DB<br>6225DA, 6225DB<br>6235DA, 6235DB<br>6245DA, 6245DB<br>6255DA, 6255DB<br>6265DA<br>6275DA | Forced Oil              |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

## Oil Fill Quantities

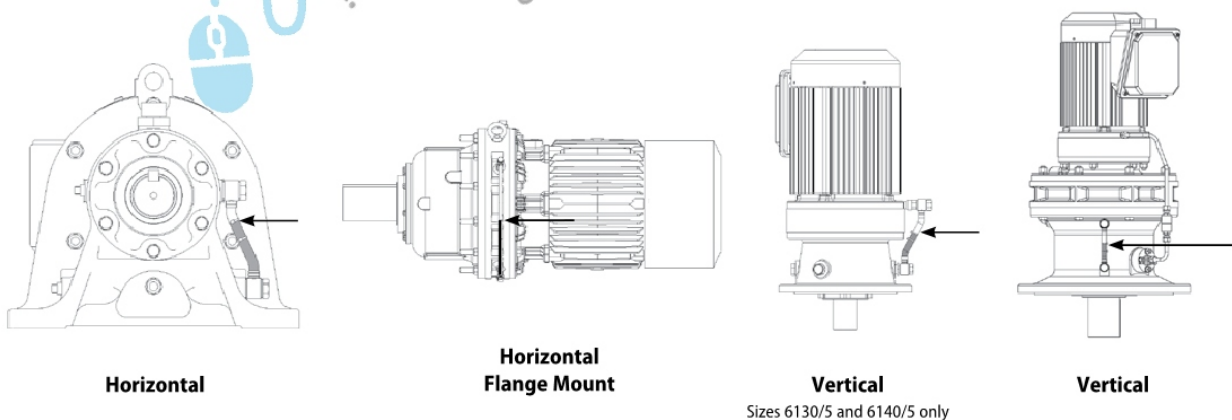
| Cyclo Horizontal Foot Mounted (CHH...) / Cyclo Horizontal V-Flange Mounted (CHV...) |        |        |        |        |        |                                                                                    |        |        |        |        |        |        |        |        |
|-------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size                                                                                | 613X   | 614X   | 616X   | 617X   | 618X   | 619X                                                                               | 6205   | 6215   | 6225   | 6235   | 6245   | 6255   | 6265   | 6275   |
| US gal                                                                              | 0.18   | 0.18   | 0.37   | 0.50   | 0.66   | 1.1                                                                                | 1.5    | 2.2    | 2.6    | 4.0    | 4.2    | 5.5    | 7.7    | 14.8   |
| liter                                                                               | 0.7    | 0.7    | 1.4    | 1.9    | 2.5    | 4                                                                                  | 5.5    | 8.5    | 10     | 15     | 16     | 21     | 29     | 56     |
| Size                                                                                | 616XDC | 617XDC | 618XDB | 619XDA | 619XDB | 6205DA                                                                             | 6205DB | 6215DA | 6215DB | 6225DA | 6225DB | 6235DA | 6235DB | 6245DA |
| US gal                                                                              | 0.40   | 0.63   | 0.92   | 1.5    | 1.6    | 1.6                                                                                | 1.6    | 2.6    | 2.6    | 2.9    | 2.9    | 4.5    | 4.5    | 4.8    |
| liter                                                                               | 1.5    | 2.4    | 3.5    | 5.8    | 6      | 6                                                                                  | 6      | 10     | 10     | 11     | 11     | 17     | 17     | 18     |
| Size                                                                                | 6245DB | 6255DA | 6255DB | 6265DA | 6275DA |  |        |        |        |        |        |        |        |        |
| US gal                                                                              | 4.8    | 6.1    | 6.1    | 8.5    | 15.9   |                                                                                    |        |        |        |        |        |        |        |        |
| liter                                                                               | 18     | 23     | 23     | 32     | 60     |                                                                                    |        |        |        |        |        |        |        |        |

| Cyclo Vertical V-Flange Mounted (CVV...) |        |        |        |        |         |        |        |        |        |        |        |        |        |        |
|------------------------------------------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size                                     | 613X   | 614X   | 616X   | 617X   | 618X    | 619X   | 6205   | 6215   | 6225   | 6235   | 6245   | 6255   | 6265   | 6275   |
| US gal                                   | 0.29   | 0.29   | 0.26   | 0.50   | 0.53    | 0.71   | 1.5    | 2.0    | 2.6    | 3.2    | 4.0    | 11.1   | 13.5   | (15.9) |
| liter                                    | 1.1    | 1.1    | 1      | 1.9    | 2       | 2.7    | 5.7    | 7.5    | 10     | 12     | 15     | 42     | 51     | (60)   |
| Size                                     | 616XDC | 617XDC | 618XDB | 619XDA | 619XDB  | 6205DA | 6205DB | 6215DA | 6215DB | 6225DA | 6225DB | 6235DA | 6235DB | 6245DA |
| US gal                                   | 0.26   | 0.50   | 0.53   | 0.71   | 0.71    | 2.9    | 2.9    | 3.7    | 3.7    | 4.8    | 4.8    | 6.1    | 6.1    | 7.7    |
| liter                                    | 1      | 1.9    | 2      | 2.7    | 2.7     | 11     | 11     | 14     | 14     | 18     | 18     | 23     | 23     | 29     |
| Size                                     | 6245DB | 6255DA | 6255DB | 6265DA | 6275DA  |        |        |        |        |        |        |        |        |        |
| US gal                                   | 7.7    | 11.1   | 11.1   | 13.5   | (15.85) |        |        |        |        |        |        |        |        |        |
| liter                                    | 29     | 42     | 42     | 51     | (60.00) |        |        |        |        |        |        |        |        |        |

| Cyclo Horizontal Flange Mounted (CHF...) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size                                     | 613X   | 614X   | 616X   | 617X   | 618X   | 619X   | 6205   | 6215   | 6225   | 6235   | 6245   | 6255   | 6265   | 6275   |
| US gal                                   | 0.07   | 0.07   | 0.24   | 0.40   | 0.34   | 0.53   | 0.79   | 1.1    | 1.3    | 2.0    | 2.1    | 2.9    | 3.7    | 7.9    |
| liter                                    | 0.25   | 0.25   | 0.9    | 1.5    | 1.3    | 2      | 3      | 4      | 5      | 7.5    | 8      | 11     | 14     | 30     |
| Size                                     | 616XDC | 617XDC | 618XDB | 619XDA | 619XDB | 6205DA | 6205DB | 6215DA | 6215DB | 6225DA | 6225DB | 6235DA | 6235DB | 6245DA |
| US gal                                   | 0.26   | 0.53   | 0.61   | 1.0    | 1.1    | 1.1    | 1.1    | 1.5    | 1.5    | 1.6    | 1.6    | 2.5    | 2.5    | 2.6    |
| liter                                    | 1      | 2      | 2.3    | 3.8    | 4      | 4      | 4      | 5.5    | 5.5    | 6      | 6      | 9.5    | 9.5    | 10     |
| Size                                     | 6245DB | 6255DA | 6255DB | 6265DA |        |        |        |        |        |        |        |        |        |        |
| US gal                                   | 2.6    | 3.4    | 3.4    | 4.5    |        |        |        |        |        |        |        |        |        |        |
| liter                                    | 10     | 13     | 13     | 17     |        |        |        |        |        |        |        |        |        |        |

X = 0 or 5  
( ) = With Trochoid Pump

## Oil Fill Level



## CYCLO® 6000 Speed Reducers

### Lubrication continued

#### Grease Fill Quantities for Maintenance Free Speed Reducers

oz. (g)

| Size                                  | 606X        | 607X        | 608X        | 609X         | 610X         | 611X         | 612X          | 606XDA      | 607XDA      | 609XDA       | 610XDA       | 612XDA        | 612XDB        |
|---------------------------------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|-------------|-------------|--------------|--------------|---------------|---------------|
| Speed Reduction Mechanism (1st stage) | 0.9<br>(25) | 0.9<br>(25) | 2.3<br>(65) | 3.2<br>(90)  | 4.9<br>(140) | 7.1<br>(200) | 11.6<br>(330) | 0.9<br>(25) | 0.9<br>(25) | 0.9<br>(25)  | 0.9<br>(25)  | 0.9<br>(25)   | 3.2<br>(90)   |
| Speed Reduction Mechanism (2nd stage) |             |             |             |              |              |              |               | 0.9<br>(25) | 0.9<br>(25) | 3.2<br>(90)  | 4.9<br>(140) | 11.6<br>(330) | 11.6<br>(330) |
| Slow Speed Shaft Bearing              | 1.2<br>(35) | 1.2<br>(35) | 2.5<br>(70) | 3.5<br>(100) | 3.5<br>(100) | 3.2<br>(90)  | 4.2<br>(120)  | 1.2<br>(35) | 1.2<br>(35) | 3.5<br>(100) | 3.5<br>(100) | 4.2<br>(120)  | 4.2<br>(120)  |

X = 0 or 5

#### Grease Fill Quantities for Non-Maintenance Free Speed Reducers

oz. (g)

| Size                                  | 613XDA          | 613XDB          | 613XDC          | 614XDA          | 614XDB          | 614XDC         | 616XDA         | 616XDB         | 616XDC         | 617XDA         | 617XDB          | 617XDC          |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Speed Reduction Mechanism (1st stage) | 0.9<br>(25)     | 2.1<br>(60)     | 4.2<br>(120)    | 0.9<br>(25)     | 2.1<br>(60)     | 4.2<br>(120)   | 2.1<br>(60)    | 4.2<br>(120)   | 8.8<br>(250)   | 2.1<br>(60)    | 4.2<br>(120)    | 8.8<br>(250)    |
| Speed Reduction Mechanism (2nd stage) | 15.9<br>(450)   | 15.9<br>(450)   | 15.9<br>(450)   | 15.9<br>(450)   | 15.9<br>(450)   | 15.9<br>(450)  | 26.5<br>(750)  | 26.5<br>(750)  | 26.5<br>(750)  | 35.3<br>(1000) | 35.3<br>(1000)  | 35.3<br>(1000)  |
| Slow Speed Shaft Bearing              | 10.6<br>(300)   | 10.6<br>(300)   | 10.6<br>(300)   | 10.6<br>(300)   | 10.6<br>(300)   | 10.6<br>(300)  | 10.6<br>(300)  | 10.6<br>(300)  | 10.6<br>(300)  | 17.6<br>(500)  | 17.6<br>(500)   | 17.6<br>(500)   |
| Size                                  | 618XDA          | 618XDB          | 619XDA          | 619XDB          | 6205DA          | 6205DB         | 6215DA         | 6215DB         | 6225DA         | 6225DB         | 6235DA          | 6235DB          |
| Speed Reduction Mechanism (1st stage) | 4.2<br>(120)    | 15.9<br>(450)   | 11.6<br>(330)   | 15.9<br>(450)   | 11.6<br>(330)   | 15.9<br>(450)  | 15.9<br>(450)  | 26.5<br>(750)  | 15.9<br>(450)  | 35.3<br>(1000) | 26.5<br>(750)   | 38.8<br>(1100)  |
| Speed Reduction Mechanism (2nd stage) | 38.8<br>(1100)  | 38.8<br>(1100)  | 52.9<br>(1500)  | 52.9<br>(1500)  | 52.9<br>(1500)  | 52.9<br>(1500) | 70.5<br>(2000) | 70.5<br>(2000) | 88.2<br>(2500) | 88.2<br>(2500) | 141.1<br>(4000) | 141.1<br>(4000) |
| Slow Speed Shaft Bearing              | 21.2<br>(600)   | 21.2<br>(600)   | 24.7<br>(700)   | 24.7<br>(700)   | 24.7<br>(700)   | 24.7<br>(700)  | 28.2<br>(800)  | 28.2<br>(800)  | 31.7<br>(900)  | 31.7<br>(900)  | 35.3<br>(1000)  | 35.3<br>(1000)  |
| Size                                  | 6245DA          | 6245DB          | 6255DA          | 6255DB          | 6265DA          |                |                |                |                |                |                 |                 |
| Speed Reduction Mechanism (1st stage) | 26.5<br>(750)   | 38.8<br>(1100)  | 35.3<br>(1000)  | 52.9<br>(1500)  | 52.9<br>(1500)  |                |                |                |                |                |                 |                 |
| Speed Reduction Mechanism (2nd stage) | 158.7<br>(4500) | 158.7<br>(4500) | 211.6<br>(6000) | 211.6<br>(6000) | 282.2<br>(8000) |                |                |                |                |                |                 |                 |
| Slow Speed Shaft Bearing              | 38.8<br>(1100)  | 38.8<br>(1100)  | 42.3<br>(1200)  | 42.3<br>(1200)  | 45.9<br>(1300)  |                |                |                |                |                |                 |                 |

X = 0 or 5

Speed Reducers

Lubrication

## Grease Quantities for Units Normally Oil Lubricated

In the case where a unit that is normally oil-lubricated is supplied with grease lubrication, use the values in the following tables to replenish the grease in the selected unit.

### Standard Grease for Normally Oil Lubricated Units

| Frame Size | Ambient Temperature |           | Planetary                               | Cycloid Discs         |
|------------|---------------------|-----------|-----------------------------------------|-----------------------|
|            | °F                  | °C        |                                         |                       |
| 613 to 616 | 14 to 122           | -10 to 50 | Shell Gadus S2 V220 0<br>(613X to 617X) | Exxon Unirex N2       |
| 617 to 626 |                     |           |                                         | Shell Gadus S2 V220 2 |

**Note:** For double and triple reduction units, standard grease is Exxon Unirex N2

### Grease Quantities for Normally Oil Lubricated Units

| Frame Size                | 6130<br>6135<br>6140<br>6145 | 6160<br>6165  | 6170<br>6175   | 6180<br>6185   | 6190<br>6195   | 6215           | 6225           | 6235            | 6245            | 6255            | 6265            |
|---------------------------|------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Speed Reduction Mechanism | 15.9<br>(450)                | 26.5<br>(750) | 35.3<br>(1000) | 36.8<br>(1100) | 52.9<br>(1500) | 70.5<br>(2000) | 88.2<br>(2500) | 141.1<br>(4000) | 158.7<br>(4500) | 211.6<br>(6000) | 282.2<br>(8000) |
| Slow Speed Shaft Bearing  | 10.6<br>(300)                | 10.6<br>(300) | 17.6<br>(500)  | 21.2<br>(600)  | 24.7<br>(700)  | 28.2<br>(800)  | 31.7<br>(900)  | 35.3<br>(1000)  | 36.8<br>(1100)  | 42.3<br>(1200)  | 45.9<br>(1300)  |

### Optional Greases

| Application      | Temperature Range                  |                                    | Grease Manufacturer | Brand        | NGLI Grade | Cyclo Frame Size |
|------------------|------------------------------------|------------------------------------|---------------------|--------------|------------|------------------|
|                  | °F                                 | °C                                 |                     |              |            |                  |
| Food Grade       | 14 to 104                          | -10 to 40                          | Ultrachem           | Omnilube FGM | 2          | 606X to 612X     |
| Low Temperature  | -40 to 30<br><small>Note 1</small> | -40 to -1<br><small>Note 1</small> | ExxonMobil          | Beacon 325   | 2          | All              |
|                  |                                    |                                    | Anderol             | Royco 22 CF  | 2          | All              |
| High Temperature | 105 to 180                         | 40 to 80                           | ExxonMobil          | Unirex N     | 2          | All              |

NOTE: All units filled with grease other than Standard won't be considered Maintenance Free.

Note 1: Consult factory for temperatures outside the established range.

### Optional Oils

| Application | Temperature Range |            | Oil Manufacturer | Brand             | ISO VG | Cyclo Frame Size |
|-------------|-------------------|------------|------------------|-------------------|--------|------------------|
|             | °F                | °C         |                  |                   |        |                  |
| Food Grade  | 32 to 95          | 0 to 35    | Klüber           | Klubersynth UH1 6 | 460    | 613X to 616X     |
| Low Temp    | -40 to -22        | -40 to -30 | Shell            | Tellus S2 V       | 15     | All              |

NOTE 1: Consult factory for Cyclo sizes not listed in the table

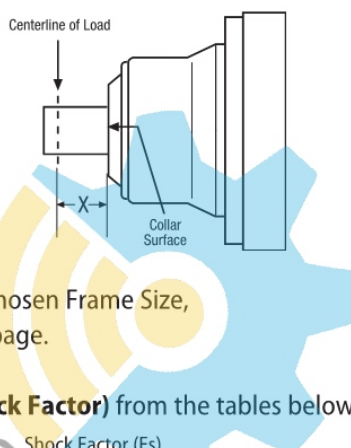


## Overhung Loads • Slow Speed Shaft

Overhung Loads are loads that act perpendicular to the reducer shaft. Each reducer has a maximum allowable overhung load (OHL) capacity, which is shown in the Frame Size Selection Tables for each reducer. In applications with an OHL, it is critical that the OHL is calculated and that the chosen reducer is adequately sized for the maximum OHL.

### How to Calculate Overhung Load (OHL)

Step 1. **Measure distance X** from reducer collar surface to the centerline of the OHL.



Step 2. **Determine Lf (Load Location Factor)** for your chosen Frame Size, using **Load Location Factor Table** on the next page.

Step 3. **Determine Cf (Connection Factor) and Fs (Shock Factor)** from the tables below:

Load Connection Factor (Cf)

| CONNECTION TYPE                  | Cf   |
|----------------------------------|------|
| General Purpose Chain Single Row | 1.0  |
| Double Row                       | 1.25 |
| Machined Gear or Pinion          | 1.25 |
| Synchronous Belt                 | 1.50 |
| V-Belt                           | 1.50 |
| Flat Belt                        | 2.50 |

Shock Factor (Fs)

| SHOCK FACTORr  | Fs  |
|----------------|-----|
| No Shock       | 1.0 |
| Moderate Shock | 1.3 |
| Heavy Shock    | 1.6 |

Step 4. **Apply Lf, Cf and Sf to the formula** to calculate the OHL.

$$Pr = \frac{TI}{R} \leq \frac{Pro}{Lf \cdot Cf \cdot Fs} \quad (\text{lbs, N})$$

$Pr$  = Actual radial load  
 $TI$  = Actual transmitted torque on slow speed shaft of reducer (lb • in/ N • m)  
 $R$  = Pitch circle radius of sprocket, gear, pulley, ect. (inch, meter)  
 $Pro$  = Allowable radial load (lbs, N)  
 $Cf$  = Coupling factor  
 $Fs$  = Shock factor  
 $Lf$  = Load location factor

Note: When the Slow Speed Shaft is under both Radial and Axial Load, calculate Overhung Load first and proceed with calculations on Axial Loads page 5.10

Step 5. **Refer back to the Frame Size Selection Tables** (pp. 3.1–3.32) to determine maximum allowable OHL capacity for the selected Frame Size.

If the calculated OHL **does not** exceed the OHL capacity (from Selection Table), the selected Frame Size is acceptable.



**If the calculated OHL exceeds the OHL capacity**, there are two standard options that can increase the OHL capacity of a reducer:

- High Capacity Bearings Option–R1
- Ductile Iron Housing & High Capacity Bearings Option–R2

**If neither of these options adequately increase the OHL capacity:**

1. Choose the next larger Frame Size, or
2. Move the OHL closer to the collar surface, or
3. Decrease the OHL by increasing the pitch diameter of the connecting drive.

Be sure to recalculate and verify the OHL capacity for the new frame size.

Overhung Loads, Slow Speed Shaft continued

## Load Location Factors (Lf), Slow Speed Shaft

| Frame Size           |                                                    | X (inches) |      |      |      |       |       |       |      |       |      |       |      |       |      |      |      |      |      |      |    |
|----------------------|----------------------------------------------------|------------|------|------|------|-------|-------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|----|
| Single Reduction     | Double Reduction                                   | 1/4        | 1/2  | 3/4  | 1    | 1 1/4 | 1 1/2 | 1 3/4 | 2    | 2 1/2 | 3    | 3 1/2 | 4    | 4 1/2 | 5    | 6    | 7    | 8    | 9    | 10   | 11 |
| 6060, 6065           | 6060DA, 6065DA                                     | 0.86       | 1.08 | 1.49 | —    | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6070, 6075           | 6070DA, 6075DA                                     | 0.85       | 0.96 | 1.23 | 1.61 | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6080, 6085           | —                                                  | 0.83       | 0.91 | 1.01 | 1.30 | 1.63  | —     | —     | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6090, 6095           | 6090DA, 6095DA                                     | 0.88       | 0.95 | 1.10 | 1.40 | 1.73  | —     | —     | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6100<br>6105<br>610H | 6100DA, 6105DA                                     | 0.88       | 0.95 | 1.10 | 1.40 | 1.73  | —     | —     | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6110, 6115           | —                                                  | 0.80       | 0.87 | 0.95 | 1.02 | 1.12  | 1.30  | 1.51  | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6120, 6125<br>612H   | 6120DA, 6120DB<br>6125DA, 6125DB                   | —          | 0.85 | 0.91 | 0.98 | 1.14  | 1.36  | 1.57  | —    | —     | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6130 6135            | 6130DA, 6130DB<br>6130DC, 6135DA<br>6135DB, 6135DC | —          | —    | 0.86 | 0.92 | 0.97  | 1.08  | 1.24  | 1.40 | 1.72  | —    | —     | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6140<br>6145<br>614H | 6140DA, 6140DB<br>6140DC, 6145DA<br>6145DB, 6145DC | —          | —    | —    | 0.74 | 0.82  | 0.91  | 0.99  | 1.12 | 1.37  | 1.62 | 1.88  | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6160<br>6165<br>616H | 6160DA, 6160DB<br>6160DC, 6165DA<br>6165DB, 6165DC | —          | —    | —    | 0.87 | 0.91  | 0.95  | 1.00  | 1.13 | 1.39  | 1.67 | 1.94  | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6170<br>6175         | 6170DA, 6170DB<br>6170DC, 6175DA                   | —          | —    | —    | 0.89 | 0.93  | 0.96  | 1.00  | 1.13 | 1.39  | 1.67 | 1.94  | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6180<br>6185         | 6180DA, 6180DB<br>6185DA, 6185DB                   | —          | —    | —    | 0.85 | 0.88  | 0.92  | 0.95  | 0.99 | 1.15  | 1.37 | 1.58  | —    | —     | —    | —    | —    | —    | —    | —    | —  |
| 6190<br>6195         | 6190DA, 6190DB<br>6195DA, 6195DB                   | —          | —    | —    | 0.86 | 0.88  | 0.91  | 0.93  | 0.99 | 1.13  | 1.30 | 1.48  | 1.67 | —     | —    | —    | —    | —    | —    | —    | —  |
| 6205                 | 6205DA, 6205DB                                     | —          | —    | —    | —    | —     | 0.74  | 0.78  | 0.86 | 0.95  | 1.04 | 1.13  | 1.22 | 1.31  | 1.49 | —    | —    | —    | —    | —    | —  |
| 6215                 | 6215DA, 6215DB                                     | —          | —    | —    | —    | —     | 0.73  | 0.78  | 0.86 | 0.95  | 1.04 | 1.14  | 1.23 | 1.32  | 1.50 | —    | —    | —    | —    | —    | —  |
| 6225                 | 6225DA, 6225DB                                     | —          | —    | —    | —    | —     | 0.88  | 0.90  | 0.94 | 0.98  | 1.02 | 1.06  | 1.10 | 1.14  | 1.23 | —    | —    | —    | —    | —    | —  |
| 6235                 | 6235DA, 6235DB                                     | —          | —    | —    | —    | —     | 0.84  | 0.85  | 0.89 | 0.93  | 0.97 | 1.00  | 1.04 | 1.08  | 1.16 | 1.23 | —    | —    | —    | —    | —  |
| 6245                 | 6245DA, 6245DB                                     | —          | —    | —    | —    | —     | 0.84  | 0.86  | 0.90 | 0.93  | 0.97 | 1.00  | 1.04 | 1.08  | 1.15 | 1.22 | —    | —    | —    | —    | —  |
| 6255                 | 6255DA, 6255DB                                     | —          | —    | —    | —    | —     | 0.83  | 0.86  | 0.89 | 0.93  | 0.95 | 0.99  | 1.02 | 1.08  | 1.21 | 1.38 | 1.54 | —    | —    | —    | —  |
| 6265                 | 6265DA                                             | —          | —    | —    | —    | —     | —     | —     | 0.84 | 0.88  | 0.90 | 0.93  | 0.95 | 1.02  | 1.16 | 1.31 | 1.47 | 1.64 | 1.80 | —    | —  |
| 6275                 | 6275DA                                             | —          | —    | —    | —    | —     | —     | —     | —    | —     | 0.71 | 0.76  | 0.80 | 0.85  | 0.95 | 1.08 | 1.23 | 1.37 | 1.52 | 1.67 | —  |

Speed Reducers

Overhung Loads

## CYCLO® 6000 Speed Reducers

### Overhung Loads, Slow Speed Shaft continued

#### High Capacity Bearings Option

##### Type R1

##### Slow Speed Shaft Overhung Load Capacity (lbs.)

| Frame Size           |                                                    | Output Shaft Speed (RPM) |       |       |       |       |       |       |       |
|----------------------|----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Single Reduction     | Double Reduction                                   | 10 & Below               | 15    | 20    | 25    | 30    | 35    | 40    | 50    |
| 6130, 6135           | 6130DA, 6130DB<br>6130DC, 6135DA<br>6135DB, 6135DC | 3310                     | 3310  | 3310  | 3310  | 3310  | 3310  | 3310  | 3310  |
| 6160<br>6165<br>616H | 6160DA, 6160DB<br>6160DC, 6165DA<br>6165DB, 6165DC | 4960                     | 4960  | 4960  | 4960  | 4960  | 4960  | 4960  | 4960  |
| 6170<br>6175         | 6170DA, 6170DB<br>6170DC, 6175DA<br>6175DB, 6175DC | 6640                     | 6640  | 6640  | 6640  | 6640  | 6640  | 6640  | 6640  |
| 6180<br>6185         | 6180DA, 6180DB<br>6185DA, 6185DB                   | 9370                     | 9370  | 9370  | 9370  | 9370  | 9370  | 9370  | 9370  |
| 6190<br>6195         | 6190DA, 6190DB<br>6195DA, 6195DB                   | 13200                    | 13200 | 13200 | 13200 | 13200 | 13200 | 13200 | 12400 |

| Frame Size           |                                                    | Output Shaft Speed (RPM) |       |      |      |      |      |      |      |
|----------------------|----------------------------------------------------|--------------------------|-------|------|------|------|------|------|------|
| Single Reduction     | Double Reduction                                   | 60                       | 80    | 100  | 125  | 150  | 200  | 250  | 300  |
| 6130, 6135           | 6130DA, 6130DB<br>6130DC, 6135DA<br>6135DB, 6135DC | 3310                     | 3170  | 3040 | 2820 | 2670 | 2450 | 2290 | 2170 |
| 6160<br>6165<br>616H | 6160DA, 6160DB<br>6160DC, 6165DA<br>6165DB, 6165DC | 4960                     | 4960  | 4850 | 4520 | 4280 | 3920 | 3660 | 3460 |
| 6170<br>6175         | 6170DA, 6170DB<br>6170DC, 6175DA<br>6175DB, 6175DC | 6640                     | 6640  | 6590 | 6150 | 5820 | 5360 | 4980 | 4740 |
| 6180<br>6185         | 6180DA, 6180DB<br>6185DA, 6185DB                   | 9370                     | 9280  | 8660 | 8140 | 7690 | 7050 | —    | —    |
| 6190<br>6195         | 6190DA, 6190DB<br>6195DA, 6195DB                   | 11900                    | 10600 | 9900 | 9220 | 8600 | 7800 | —    | —    |

Speed  
Reducers

Overhung  
Loads

Overhung Loads, Slow Speed Shaft continued

## Ductile Iron Housing and High Capacity Bearings Option

## Type R2

## Slow Speed Shaft Overhung Load Capacity (lbs.)

| Frame Size           |                                                    | Output Shaft Speed (RPM) |       |       |       |       |       |       |       |       |       |
|----------------------|----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Single Reduction     | Double Reduction                                   | 4 & Below                | 5     | 6     | 8     | 10    | 15    | 20    | 25    | 30    | 35    |
| 6130, 6135           | 6130DA, 6130DB<br>6130DC, 6135DA<br>6135DB, 6135DC | 5400                     | 5400  | 5400  | 5400  | 5400  | 5360  | 4890  | 4590  | 4340  | 4140  |
| 6160<br>6165<br>616H | 6160DA, 6160DB<br>6160DC, 6165DA<br>6165DB, 6165DC | 7560                     | 7560  | 7560  | 7560  | 7560  | 7560  | 7560  | 7470  | 7080  | 6770  |
| 6170<br>6175         | 6170DA, 6170DB<br>6170DC, 6175DA<br>6175DB, 6175DC | 10300                    | 10300 | 10300 | 10300 | 10300 | 10300 | 10300 | 10200 | 9630  | 9190  |
| 6180<br>6185         | 6180DA, 6180DB<br>6185DA, 6185DB                   | 12500                    | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12100 |
| 6190<br>6195         | 6190DA, 6190DB<br>6195DA, 6195DB                   | 16100                    | 16100 | 16100 | 16100 | 16100 | 16100 | 16100 | 16100 | 15600 | 14900 |
| 6205                 | 6205DA, 6205DB                                     | 22000                    | 22000 | 22000 | 22000 | 22000 | 20000 | —     | —     | —     | —     |
| 6215                 | 6215DA, 6215DB                                     | 29800                    | 28200 | 26700 | 24500 | —     | —     | —     | —     | —     | —     |
| 6225                 | 6225DA, 6225DB                                     | 36200                    | 35100 | 33300 | 30400 | 28200 | 25100 | 23100 | 21600 | 20500 | 19600 |
| 6235                 | 6235DA, 6235DB                                     | 41200                    | 41200 | 41200 | 38100 | 35700 | 31700 | 28900 | 27100 | 25600 | 24500 |
| 6245                 | 6245DA, 6245DB                                     | 50000                    | 47000 | 44500 | 40800 | 37900 | 33700 | 31100 | 28900 | 27300 | 26000 |
| 6255                 | 6255DA, 6255DB                                     | 61500                    | 58000 | 54900 | 50300 | 47200 | 41700 | 38100 | 35700 | 34000 | 32400 |
| 6265                 | 6265DA                                             | 63500                    | 63500 | 63500 | 60600 | 56900 | 50300 | 46100 | 43000 | 40800 | 39000 |
| 6275                 | 6275DA                                             | 61100                    | 61100 | 61100 | 61100 | 61100 | 61100 | 61100 | 61100 | 61100 | —     |

| Frame Size           |                                                    | Output Shaft Speed (RPM) |       |       |       |       |       |       |       |      |      |
|----------------------|----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Single Reduction     | Double Reduction                                   | 40                       | 50    | 60    | 80    | 100   | 125   | 150   | 200   | 250  | 300  |
| 6130, 6135           | 6130DA, 6130DB<br>6130DC, 6135DA<br>6135DB, 6135DC | 3990                     | 3700  | 3510  | 3240  | 3040  | 2820  | 2670  | 2450  | 2290 | 2170 |
| 6160<br>6165<br>616H | 6160DA, 6160DB<br>6160DC, 6165DA<br>6165DB, 6165DC | 6500                     | 6060  | 5750  | 5290  | 4940  | 4610  | 4370  | 4010  | 3730 | 3460 |
| 6170<br>6175         | 6170DA, 6170DB<br>6170DC, 6175DA<br>6175DB, 6175DC | 8840                     | 8270  | 7830  | 7170  | 6720  | 6260  | 5930  | 5470  | 4980 | 4740 |
| 6180<br>6185         | 6180DA, 6180DB<br>6185DA, 6185DB                   | 11700                    | 10900 | 10300 | 9460  | 8860  | 8290  | 7850  | 7190  | —    | —    |
| 6190<br>6195         | 6190DA, 6190DB<br>6195DA, 6195DB                   | 14300                    | 13400 | 12700 | 11600 | 10800 | 10100 | 9610  | 8840  | —    | —    |
| 6205                 | 6205DA, 6205DB                                     | —                        | —     | —     | —     | —     | —     | —     | —     | —    | —    |
| 6215                 | 6215DA, 6215DB                                     | —                        | —     | —     | —     | —     | —     | —     | —     | —    | —    |
| 6225                 | 6225DA, 6225DB                                     | 18800                    | 17500 | 16600 | 15300 | 14300 | 13400 | 12700 | 11600 | —    | —    |
| 6235                 | 6235DA, 6235DB                                     | 23600                    | 22000 | 20900 | 19200 | 17900 | 16700 | —     | —     | —    | —    |
| 6245                 | 6245DA, 6245DB                                     | 25100                    | 23600 | 22300 | 20400 | 19100 | 17800 | —     | —     | —    | —    |
| 6255                 | 6255DA, 6255DB                                     | 31300                    | 28900 | 27600 | 25100 | 23600 | 22000 | —     | —     | —    | —    |
| 6265                 | 6265DA                                             | 37300                    | 35100 | 33300 | 30400 | 28200 | 26500 | —     | —     | —    | —    |
| 6275                 | 6275DA                                             | —                        | —     | —     | —     | —     | —     | —     | —     | —    | —    |

Speed Reducers

Overhung Loads



# Axial Loads

## How to Calculate Axial Loads

When axial and overhung loads are combined to act on the Slow Speed Shaft, this formula is used to determine if the combined loading is acceptable for the selected Cyclo® reducer.

**Axial Loads are loads that act parallel to the reducer shaft.** Each reducer has a maximum allowable axial load capacity, which is shown in table below. When the maximum allowable axial load exceeds the capacity shown in the table, the next larger frame size should be chosen.

### Axial Load, PA

$$Pa \leq \frac{Pao}{Cf \cdot Fs} \quad (\text{lbs, N})$$

### Formula for Combined Radial and Axial Load on Slow Speed Shaft

$$\left( \frac{Pr \cdot Lf}{Pro} + \frac{Pa}{Pao} \right) \cdot Cf \cdot Fs \leq 1$$

Pr = Actual Overhung Load  
Lf = Load Location Factor  
Pro = Allowable Overhung Load  
Pa = Actual Axial Load (lbs, N)  
Pao = Allowable Axial Load (lbs, N)  
Cf = Coupling Factor  
Fs = Shock Factor



**If the calculated loads exceed the limits shown below in Axial Load Capacity Table:**

1. Decrease the OHL by moving the load closer to the shaft collar or by increasing the pitch diameter of the connecting device,  
or
2. Select the next larger frame size. Repeat the Axial Load calculation to verify the selection.

## Axial Load Capacity, Slow Speed Shaft (lbs.)

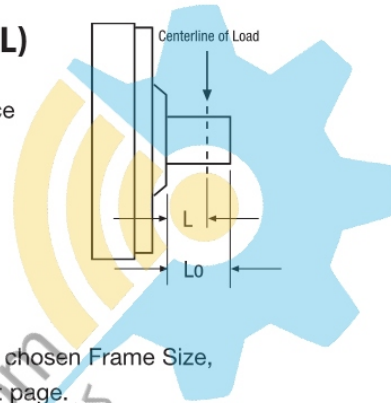
| Frame Size        | Single Reduction                             | Double Reduction | Output Shaft Speed (RPM) |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|-------------------|----------------------------------------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
|                   |                                              |                  | -10                      | 15    | 20    | 25    | 30    | 35    | 40    | 50    | 60   | 80   | 100  | 125  | 150  | 200  | 250  | 300  |
| 6060 6065         | 6060DA 6065DA                                |                  | 66                       | 66    | 66    | 66    | 66    | 66    | 66    | 66    | 66   | 66   | 66   | 66   | 66   | 66   | —    | —    |
| 6070 6075         | 6070DA 6075DA                                |                  | 176                      | 176   | 176   | 176   | 176   | 176   | 176   | 176   | 176  | 176  | 176  | 176  | 176  | 176  | 176  | 176  |
| 6080 6085         | —                                            |                  | 221                      | 221   | 221   | 221   | 221   | 221   | 221   | 221   | 221  | 221  | 221  | 221  | 221  | 221  | 221  | 221  |
| 6090 6095         | 6090DA 6095DA                                |                  | 221                      | 221   | 221   | 221   | 221   | 221   | 221   | 221   | 221  | 221  | 221  | 221  | 221  | 221  | 221  | 221  |
| 6100 6105<br>610H | 6100DA 6105DA                                |                  | 330                      | 330   | 330   | 330   | 330   | 330   | 330   | 330   | 330  | 330  | 330  | 330  | 330  | 330  | 330  | 330  |
| 6110 6115         | —                                            |                  | 330                      | 330   | 330   | 330   | 330   | 330   | 330   | 330   | 330  | 330  | 330  | 330  | 330  | 330  | 330  | 330  |
| 6120 6125<br>612H | 6120DA 6120DB<br>6125DA 6125DB               |                  | 661                      | 661   | 661   | 661   | 661   | 661   | 661   | 661   | 661  | 661  | 661  | 661  | 661  | 623  | 562  | 537  |
| 6130 6135         | 6130DA 6130DB 6130DC<br>6135DA 6135DB 6135DC |                  | 881                      | 881   | 881   | 881   | 881   | 881   | 881   | 881   | 881  | 881  | 881  | 881  | 881  | 881  | 881  | 881  |
| 6140 6145<br>614H | 6140DA 6140DB 6140DC<br>6145DA 6145DB 6145DC |                  | 1214                     | 1214  | 1214  | 1214  | 1214  | 1214  | 1214  | 1214  | 1214 | 1176 | 1093 | 1025 | 982  | 866  | 825  | 776  |
| 6160 6165<br>616H | 6160DA 6160DB 6160DC<br>6165DA 6165DB 6165DC |                  | 1545                     | 1545  | 1545  | 1545  | 1545  | 1545  | 1545  | 1545  | 1545 | 1545 | 1545 | 1545 | 1545 | 1416 | 1281 | —    |
| 6170 6175         | 6170DA 6170DB 6170DC<br>6175DA 6175DB 6175DC |                  | 2205                     | 2205  | 2205  | 2205  | 2205  | 2205  | 2205  | 2205  | 2205 | 2205 | 2205 | 2176 | 2028 | 1819 | 1648 | 1547 |
| 6180 6185         | 6180DA 6180DB<br>6185DA 6185DB               |                  | 3080                     | 3080  | 3080  | 3080  | 3080  | 3080  | 3080  | 3080  | 3080 | 3080 | 3080 | 2945 | 2810 | 2473 | —    | —    |
| 6190 6195         | 6190DA 6190DB<br>6195DA 6195DB               |                  | 4406                     | 4406  | 4406  | 4406  | 4406  | 4406  | 4406  | 4406  | 4406 | 4406 | 4406 | 4159 | 3934 | 3462 | —    | —    |
| 6205              | 6205DA 6205DB                                |                  | 5958                     | 5283  | 4744  | 4406  | 4182  | 4069  | 3979  | 3754  | 3530 | 3192 | 2968 | 2878 | 2765 | 2540 | —    | —    |
| 6215              | 6215DA 6215DB                                |                  | 6183                     | 5508  | 4969  | 4631  | 4406  | 4182  | 4069  | 3867  | 3642 | 3305 | 3080 | 2968 | 2878 | 2653 | —    | —    |
| 6225              | 6225DA 6225DB                                |                  | 6610                     | 5755  | 5216  | 4879  | 4631  | 4406  | 4204  | 3957  | 3754 | 3440 | 3237 | 3058 | 2945 | 2720 | —    | —    |
| 6235              | 6235DA 6235DB                                |                  | 7936                     | 7059  | 6385  | 5958  | 5621  | 5283  | 5081  | 4744  | 4519 | 4182 | 3979 | 3754 | —    | —    | —    | —    |
| 6245              | 6245DA 6245DB                                |                  | 8386                     | 7599  | 6947  | 6475  | 6138  | 5868  | 5643  | 5283  | 5013 | 4721 | 4474 | 4294 | —    | —    | —    | —    |
| 6255              | 6255DA 6255DB                                |                  | 10814                    | 9690  | 8858  | 8296  | 7891  | 7554  | 7262  | 6835  | 6407 | 6025 | 5733 | 5441 | —    | —    | —    | —    |
| 6265              | 6265DA                                       |                  | 11691                    | 11691 | 11466 | 10679 | 10072 | 9622  | 9353  | 8746  | 8386 | 7824 | 7419 | 6992 | —    | —    | —    | —    |
| 6275              | 6275DA                                       |                  | 13242                    | 13242 | 13242 | 13242 | 13242 | 13242 | 13242 | 13242 | —    | —    | —    | —    | —    | —    | —    | —    |

# Overhung Loads • High Speed Shaft

**Overhung Loads are loads that act perpendicular to the reducer shaft.** Each reducer has a maximum allowable overhung load (OHL) capacity, which is shown in the Frame Size Selection Tables for each reducer. In applications with an OHL, it is critical that the OHL is calculated and that the chosen reducer is adequately sized for the maximum OHL.

## How to Calculate Overhung Load (OHL)

Step 1. **Measure distance X** from reducer collar surface to the centerline of the OHL.



Step 2. **Determine Lf (Load Location Factor)** for your chosen Frame Size, using **Load Location Factor Table** on the next page.

Step 3. **Determine Cf (Connection Factor) and Fs (Shock Factor)** from the tables below:

Load Connection Factor (Cf)

| CONNECTION TYPE                  | Cf   |
|----------------------------------|------|
| General Purpose Chain Single Row | 1.0  |
| Double Row                       | 1.25 |
| Machined Gear or Pinion          | 1.25 |
| Synchronous Belt                 | 1.50 |
| V-Belt                           | 1.50 |
| Flat Belt                        | 2.50 |

Shock Factor (Fs)

| SHOCK FACTOR   | Fs  |
|----------------|-----|
| No Shock       | 1.0 |
| Moderate Shock | 1.3 |
| Heavy Shock    | 1.6 |

Step 4. **Apply Lf, Cf and Sf to the formula** to calculate the OHL.

$$Pr = \frac{TI}{R} \leq \frac{Pro}{Lf \cdot Cf \cdot Fs} \quad (\text{lbs, N})$$

Pr = Actual radial load  
 TI = Actual transmitted torque on slow speed shaft of reducer (lb • in, N • m)  
 R = Pitch circle radius of sprocket, gear, pulley, ect. (inch, meter)  
 Pro = Allowable radial load (lbs, N)  
 Cf = Coupling factor  
 Fs = Shock factor  
 Lf = Load location factor

Step 5. **Refer back to the OHL Capacity Table** to determine maximum allowable OHL capacity for the selected Frame Size.

If the calculated OHL **does not** exceed the OHL capacity (from Selection Table), the selected Frame Size is acceptable.



**If the calculated OHL exceeds the OHL capacity**, you must choose the next larger Frame Size. Be sure to recalculate and verify the OHL capacity for the new frame size.

Speed  
Reducers

Overhung  
Loads

## Load Location Factors (Lf), High Speed Shaft

| Frame Size       |                                                                             | L (inch) |      |      |      |       |       |       |      |       |      |       |      |       |      |       |      |       |      |       |
|------------------|-----------------------------------------------------------------------------|----------|------|------|------|-------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| Single Reduction | Double Reduction                                                            | 1/4      | 1/2  | 3/4  | 1    | 1 1/4 | 1 1/2 | 1 3/4 | 2    | 2 1/2 | 3    | 3 1/2 | 4    | 4 1/2 | 5    | 5 1/2 | 6    | 6 1/2 | 7    | 7 1/2 |
| 6060 6065        | 6060DA 6065DA 6070DA 6075DA                                                 | 0.78     | 1.07 | 1.52 | —    | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6070 6075        | 6090DA 6095DA 6100DA 6105DA<br>6120DA 6125DA 6130DA 6135DA<br>6140DA 6145DA | 0.78     | 1.07 | 1.52 | —    | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6080 6085        | —                                                                           | 0.78     | 1.07 | 1.52 | —    | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6090 6095        | 6120DB 6125DB 6130DB 6135DB<br>6140DB 6145DB 6160DA 6165DA<br>6170DA 6175DA | 0.90     | 1.09 | 1.52 | 2.03 | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6100 6105 610H   | 6130DC 6135DC 6140DC 6145DC<br>6160DB 6165DB 6170DB 6175DB<br>6180DA 6185DA | 0.93     | 1.09 | 1.52 | 2.03 | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6110 6115        | —                                                                           | 0.93     | 1.09 | 1.52 | 2.03 | —     | —     | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6120 6125 612H   | 6160DC 6165DC 6170DC 6175DC<br>6190DA 6195DA 6205DA                         | —        | 0.87 | 1.10 | 1.43 | 1.77  | 2.12  | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6130 6135        | 6180DB 6185DB 6190DB 6195DB<br>6205DB 6215DA 6225DA                         | —        | 0.84 | 0.98 | 1.25 | 1.53  | 1.83  | 2.11  | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6140 6145 614H   | —                                                                           | —        | 0.84 | 0.98 | 1.25 | 1.53  | 1.83  | 2.11  | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6160 6165 616H   | 6125DB 6235DA 6245DA                                                        | —        | 0.94 | 0.97 | 1.06 | 1.22  | 1.36  | 1.51  | 1.66 | —     | —    | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6170 6175        | 6255DA 6255DB                                                               | —        | —    | 0.95 | 0.99 | 1.09  | 1.23  | 1.38  | 1.51 | 1.79  | 2.08 | —     | —    | —     | —    | —     | —    | —     | —    | —     |
| 6180 6185        | 6235DB 6245DB                                                               | —        | —    | —    | 0.96 | 1.01  | 1.11  | 1.24  | 1.37 | 1.63  | 1.88 | 2.15  | —    | —     | —    | —     | —    | —     | —    | —     |
| 6190 6195        | 6255DB 6265DA 6275DA                                                        | —        | —    | —    | 0.95 | 0.99  | 1.06  | 1.15  | 1.26 | 1.47  | 1.69 | 1.90  | —    | —     | —    | —     | —    | —     | —    | —     |
| 6205             | —                                                                           | —        | —    | —    | 0.93 | 0.96  | 0.99  | 1.04  | 1.11 | 1.26  | 1.40 | 1.55  | 1.70 | 1.84  | —    | —     | —    | —     | —    | —     |
| 6215             | —                                                                           | —        | —    | —    | 0.93 | 0.96  | 0.99  | 1.03  | 1.09 | 1.23  | 1.36 | 1.50  | 1.63 | 1.76  | —    | —     | —    | —     | —    | —     |
| 6225             | —                                                                           | —        | —    | —    | 0.94 | 0.97  | 0.99  | 1.02  | 1.04 | 1.10  | 1.20 | 1.32  | 1.43 | 1.55  | —    | —     | —    | —     | —    | —     |
| 6235             | —                                                                           | —        | —    | —    | 0.84 | 0.86  | 0.88  | 0.93  | 0.99 | 1.10  | 1.22 | 1.33  | 1.45 | 1.57  | —    | —     | —    | —     | —    | —     |
| 6245             | —                                                                           | —        | —    | —    | 0.91 | 0.93  | 0.95  | 0.98  | 1.00 | 1.10  | 1.21 | 1.32  | 1.43 | 1.54  | —    | —     | —    | —     | —    | —     |
| 6255             | —                                                                           | —        | —    | —    | —    | —     | 0.93  | 0.94  | 0.96 | 1.00  | 1.07 | 1.15  | 1.23 | 1.31  | 1.39 | 1.47  | 1.55 | 1.63  | 1.71 | —     |
| 6265             | —                                                                           | —        | —    | —    | —    | —     | 0.93  | 0.94  | 0.96 | 1.00  | 1.07 | 1.15  | 1.23 | 1.31  | 1.39 | 1.47  | 1.55 | 1.63  | 1.71 | —     |
| 6275             | —                                                                           | —        | —    | —    | —    | —     | —     | —     | 0.94 | 0.98  | 1.02 | 1.13  | 1.23 | 1.34  | 1.45 | 1.56  | 1.66 | 1.77  | 1.90 | 2.00  |

Speed  
ReducersOverhung  
Loads

Overhung Loads, High Speed Shaft continued

## Overhung Load Capacity, High Speed Shaft (lbs.)

| Frame Size       |                                                                             | Input Speed (RPM)                     |                          |                          |                          |                          |                          |                          |                          |
|------------------|-----------------------------------------------------------------------------|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Single Reduction | Double Reduction                                                            | Ratio                                 | 1750                     | 1450                     | 1165                     | 980                      | 870                      | 720                      | 580                      |
| 6060 6065        | 6060DA 6065DA 6070DA 6075DA                                                 | 6~17, 25~35<br>21, 43                 | 44<br>17.6               | 33<br>6.6                | 33<br>11                 | 44<br>11                 | 44<br>11                 | 44<br>11                 | 44<br>11                 |
| 6070 6075        | 6090DA 6095DA 6100DA 6105DA<br>6120DA 6125DA 6130DA 6135DA<br>6140DA 6145DA | 6~17, 25~35, 51, 59<br>21, 43         | 44<br>11                 | 33<br>11                 | 33<br>11                 | 44<br>11                 | 44<br>11                 | 44<br>33                 | 44<br>44                 |
| 6080 6085        | —                                                                           | 6~15, 21, 29, 43~59, 87<br>17, 35, 71 | 44<br>11                 | 33<br>11                 | 33<br>11                 | 44<br>11                 | 44<br>11                 | 44<br>33                 | 44<br>44                 |
| 6090 6095        | 6120DB 6125DB 6130DB 6135DB<br>6140DB 6145DB 6160DA 6165DA<br>6170DA 6175DA | 6~17, 25~71, 119<br>21, 87            | 66<br>44                 | 66<br>44                 | 66<br>44                 | 66<br>44                 | 66<br>55                 | 66<br>55                 | 66<br>66                 |
| 6100 6105 610H   | 6130DC 6135DC 6140DC 6145DC<br>6160DB 6165DB 6170DB 6175DB<br>6180DA 6185DA | 6~11, 17~119<br>13, 15                | 99<br>99                 | 99<br>77                 | 110<br>99                | 121<br>110               | 132<br>110               | 132<br>121               | 132<br>132               |
| 6110 6115        | —                                                                           | 6, 8, 21~87<br>11~17                  | 99<br>44                 | 77<br>44                 | 99<br>44                 | 110<br>44                | 110<br>55                | 121<br>55                | 132<br>66                |
| 6120 6125 612H   | 6160DC 6165DC 6170DC 6175DC<br>6190DA 6195DA 6205DA                         | 6~17<br>21~87                         | 133<br>121               | 155<br>99                | 166<br>110               | 175<br>121               | 198<br>133               | 198<br>198               | 198<br>198               |
| 6130 6135        | 6180DB 6185DB 6190DB 6195DB<br>6205DB 6215DA 6225DA                         | 6~17, 21<br>25~87                     | 308<br>288               | 308<br>288               | 308<br>288               | 342<br>308               | 364<br>330               | 387<br>353               | 418<br>398               |
| 6140 6145 614H   | —                                                                           | 6, 8<br>11~21<br>25<br>29~87          | 308<br>277<br>243<br>121 | 308<br>230<br>254<br>133 | 308<br>243<br>265<br>133 | 342<br>265<br>288<br>155 | 364<br>277<br>297<br>155 | 387<br>297<br>308<br>155 | 418<br>330<br>330<br>243 |
| 6160 6165 616H   | 6125DB 6235DA 6245DA                                                        | 6~25, 51, 59<br>29~43, 71, 87         | 398<br>243               | 398<br>265               | 441<br>288               | 463<br>308               | 486<br>308               | 486<br>353               | 486<br>398               |
| 6170 6175        | 6255DA 6225DB                                                               | 11~87                                 | 463                      | 463                      | 508                      | 508                      | 528                      | 551                      | 596                      |
| 6180 6185        | 6235DB 6245DB                                                               | 11~87                                 | 618                      | 573                      | 618                      | 661                      | 683                      | 751                      | 771                      |
| 6190 6195        | 6255DB 6265DA 6275DA                                                        | 11~25<br>29~87                        | 683<br>596               | 683<br>573               | 728<br>638               | 794<br>661               | 816<br>706               | 881<br>751               | 881<br>816               |
| 6205             | —                                                                           | 11~87                                 | 1214                     | 1104                     | 1214                     | 1324                     | 1367                     | 1401                     | 1389                     |
| 6215             | —                                                                           | 11~87                                 | 1290                     | 1147                     | 1223                     | 1378                     | 1423                     | 1533                     | 1632                     |
| 6225             | —                                                                           | 11~87                                 | 1488                     | 1302                     | 1344                     | 1378                     | 1488                     | 1567                     | 1686                     |
| 6235             | —                                                                           | 11~87                                 | —                        | —                        | 2248                     | 2140                     | 2062                     | 2019                     | 1963                     |
| 6245             | —                                                                           | 11~87                                 | —                        | —                        | 2496                     | 2271                     | 2271                     | 2383                     | 2518                     |
| 6255             | —                                                                           | 11~87                                 | —                        | —                        | 2653                     | 2428                     | 2540                     | 2765                     | 2945                     |
| 6265             | —                                                                           | 11~87                                 | —                        | —                        | 2653                     | 2428                     | 2540                     | 2765                     | 2945                     |
| 6275             | —                                                                           | 29~87                                 | —                        | —                        | 3305                     | 3305                     | 3305                     | 3305                     | 3305                     |

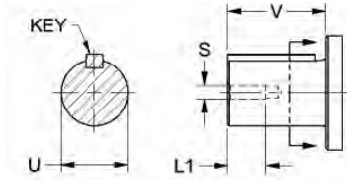
Speed Reducers

Overhung Loads



# Low Speed Shaft Specifications

## Metric DIN Style "G"

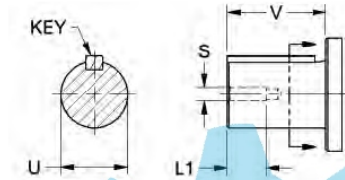


Dimensions are in mm.

| Size  | Type | ØU    | Tolerance        | V  | S   | L1 | Key Dimensions |
|-------|------|-------|------------------|----|-----|----|----------------|
| 606 X | G    | 14 k6 | +0.012<br>+0.001 | 25 | M5  | 16 | 5 x 5 x 20     |
| 607 X | G    | 19 k6 | +0.015<br>+0.002 | 30 | M6  | 16 | 6 x 6 x 25     |
| 608 X | G    | 22 k6 | +0.015<br>+0.002 | 35 | M6  | 16 | 6 x 6 x 30     |
| 609 X | G    | 28 k6 | +0.015<br>+0.002 | 35 | M8  | 20 | 8 x 7 x 32     |
| 610 X | G    | 28 k6 | +0.015<br>+0.002 | 35 | M8  | 20 | 8 x 7 x 32     |
| 611 X | G    | 32 k6 | +0.018<br>+0.002 | 45 | M8  | 20 | 10 x 8 x 37    |
| 612 X | G    | 38 k6 | +0.018<br>+0.002 | 55 | M8  | 20 | 10 x 8 x 50    |
| 613 X | G    | 50 h6 | 0<br>-0.016      | 70 | M10 | 20 | 14 x 9 x 56    |
| 614 X | G    | 50 h6 | 0<br>-0.016      | 90 | M10 | 20 | 14 x 9 x 80    |

X = 0 or 5; single stage and multistage

## Metric JIS

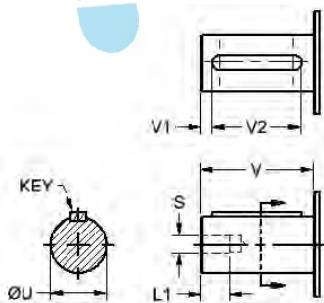


Dimensions are in mm.

| Size  | Type | ØU     | Tolerance   | V   | S   | L1 | Key Dimensions |
|-------|------|--------|-------------|-----|-----|----|----------------|
| 606 X | -    | 14 h6  | +0 / -0.011 | 25  | M5  | 16 | 5 x 5 x 20     |
| 607 X | -    | 18 h6  | +0 / -0.011 | 30  | M6  | 16 | 6 x 6 x 25     |
| 608 X | -    | 22 h6  | +0 / -0.013 | 35  | M6  | 16 | 6 x 6 x 30     |
| 609 X | -    | 28 h6  | +0 / -0.013 | 35  | M8  | 20 | 8 x 7 x 32     |
| 610 X | -    | 28 h6  | +0 / -0.013 | 35  | M8  | 20 | 8 x 7 x 32     |
| 611 X | -    | 32 h6  | +0 / -0.016 | 45  | M8  | 20 | 10 x 8 x 37    |
| 612 X | -    | 38 h6  | +0 / -0.016 | 55  | M8  | 20 | 10 x 8 x 50    |
| 613 X | -    | 50 h6  | +0 / -0.016 | 70  | M10 | 20 | 14 x 9 x 56    |
| 614 X | -    | 50 h6  | +0 / -0.016 | 90  | M10 | 20 | 14 x 9 x 80    |
| 616 X | -    | 60 h6  | 0<br>-0.019 | 90  | M10 | 20 | 18 x 11 x 80   |
| 617 X | -    | 70 h6  | 0<br>-0.019 | 90  | M12 | 24 | 20 x 12 x 80   |
| 618 X | -    | 80 h6  | 0<br>-0.019 | 110 | M12 | 24 | 22 x 14 x 100  |
| 619 X | -    | 95 h6  | 0<br>-0.022 | 135 | M20 | 34 | 25 x 14 x 125  |
| 620 X | -    | 100 h6 | 0<br>-0.022 | 165 | M20 | 34 | 28 x 16 x 165  |
| 621 X | -    | 110 h6 | 0<br>-0.022 | 165 | M20 | 34 | 28 x 16 x 165  |
| 622 X | -    | 120 h6 | 0<br>-0.022 | 165 | M20 | 34 | 32 x 18 x 165  |
| 623 X | -    | 130 h6 | 0<br>-0.025 | 200 | M24 | 41 | 32 x 18 x 200  |
| 624 X | -    | 140 h6 | 0<br>-0.025 | 200 | M24 | 41 | 36 x 20 x 240  |
| 625 X | -    | 160 h6 | 0<br>-0.025 | 240 | M30 | 52 | 40 x 22 x 240  |
| 626 X | -    | 170 h6 | 0<br>-0.025 | 300 | M30 | 52 | 40 x 22 x 300  |
| 627 X | -    | 180 h6 | 0<br>-0.025 | 330 | M30 | 52 | 45 x 22 x 330  |

X = 0 or 5; single stage and multistage

## Metric DIN Style "E"



Dimensions are in mm.

| Size  | Type | ØU    | Tolerance        | V   | S   | L1 | Key Dimensions | v <sub>1</sub> | v <sub>2</sub> |
|-------|------|-------|------------------|-----|-----|----|----------------|----------------|----------------|
| 606 X | E    | 14 k6 | +0.012<br>+0.001 | 30  | M5  | 16 | 5 x 5 x 20     | 2.5            | 25             |
| 607 X | E    | 20 k6 | +0.015<br>+0.002 | 40  | M6  | 16 | 6 x 6 x 25     | 4              | 32             |
| 608 X | E    | 25 k6 | +0.015<br>+0.002 | 50  | M10 | 20 | 6 x 6 x 30     | 3.5            | 40             |
| 609 X | E    | 25 k6 | +0.015<br>+0.002 | 50  | M10 | 20 | 8 x 7 x 32     | 3.5            | 40             |
| 610 X | E    | 30 k6 | +0.015<br>+0.002 | 60  | M10 | 20 | 8 x 7 x 32     | 3.5            | 50             |
| 611 X | E    | 35 k6 | +0.018<br>+0.002 | 70  | M12 | 20 | 10 x 8 x 37    | 7              | 56             |
| 612 X | E    | 35 k6 | +0.018<br>+0.002 | 70  | M12 | 24 | 10 x 8 x 50    | 7              | 56             |
| 613 X | E    | 50 k6 | +0.018<br>+0.002 | 100 | M16 | 30 | 14 x 9 x 56    | 10             | 80             |
| 614 X | E    | 50 k6 | +0.018<br>+0.002 | 100 | M16 | 30 | 14 x 9 x 80    | 10             | 80             |

X = 0 or 5; single stage and multistage

Speed  
ReducersLow Speed  
Specifications

[illegible]

All dimensions are in inches

| Model <sup>[1]</sup>             | A     | B     | C     | E    | F     | G    | H    | K    | L     | M    | N    | P    | d    | No. Holes | C/2   | Wt. Lbs. Pc. | Adjust <sup>[2]</sup> Bolt (d. x i) | Cyco Mount <sup>[2]</sup> Bolt (Sq.Hd.) |
|----------------------------------|-------|-------|-------|------|-------|------|------|------|-------|------|------|------|------|-----------|-------|--------------|-------------------------------------|-----------------------------------------|
| 6090, 6095<br>6100, 6105<br>610H | 10.63 | 17.32 | 16.14 | .79  | 1.34  | 0.71 | 1.97 | 1.18 | .79   | —    | 2.28 | .59  | .55  | 2         | —     | 5            | M12 x 4.72                          | M10 x 1.57                              |
| 6120, 6125<br>612H               | 11.42 | 20.08 | 18.50 | 1.18 | 1.97  | 0.98 | 2.76 | 1.57 | 1.18  | —    | 3.15 | .79  | .71  | 2         | —     | 10           | M16 x 5.12                          | M12 x 1.97                              |
| 6130, 6135<br>6140, 6145<br>614H | 15.75 | 20.47 | 16.93 | 1.18 | 4.72  | 0.79 | 1.97 | 1.97 | 2.36  | 3.35 | 2.44 | 1.77 | .55  | 4         | —     | 14           | M16 x 6.30                          | M16 x 2.56                              |
| 6160, 6165<br>616H               | 20.47 | 25.20 | 21.65 | 1.18 | 5.12  | 0.98 | 2.05 | 2.17 | 2.76  | 3.74 | 2.76 | 1.77 | .55  | 4         | —     | 26           | M16 x 7.87                          | M16 x 2.56                              |
| 6170, 6175                       | 21.65 | 29.53 | 23.62 | 1.77 | 7.09  | 1.18 | 2.56 | 3.15 | 3.74  | 5.12 | 3.35 | 2.95 | .87  | 4         | —     | 38           | M24 x 9.45                          | M20 x 3.15                              |
| 6180, 6185                       | 25.59 | 33.46 | 27.56 | 1.77 | 7.09  | 1.18 | 3.15 | 3.15 | 3.74  | 5.12 | 3.94 | 2.95 | .87  | 4         | —     | 42           | M24 x 11.81                         | M20 x 3.15                              |
| 6190, 6195                       | 25.59 | 33.46 | 27.56 | 1.77 | 9.06  | 1.57 | 3.54 | 3.94 | 5.12  | 6.69 | 4.33 | 2.95 | 1.02 | 4         | —     | 84           | M24 x 11.81                         | M24 x 3.94                              |
| 6205                             | 31.50 | 39.37 | 33.46 | 1.77 | 9.06  | 1.38 | 3.94 | 4.72 | 5.91  | 7.09 | 4.92 | 2.95 | 1.02 | 6         | 16.73 | 114          | M24 x 12.99                         | M24 x 4.33                              |
| 6215                             | 31.50 | 39.37 | 33.46 | 1.77 | 9.06  | 1.38 | 3.94 | 4.72 | 5.91  | 7.09 | 4.92 | 2.95 | 1.02 | 6         | 16.73 | 114          | M24 x 12.99                         | M24 x 4.53                              |
| 6225, 6235                       | 32.28 | 48.82 | 37.00 | 2.17 | 10.04 | 1.61 | 5.51 | 6.69 | 10.04 | 6.89 | 6.50 | 5.91 | 1.54 | 6         | 18.50 | 254          | M36 x 16.34                         | M30 x 4.72                              |
| 6245                             | 44.09 | 60.63 | 48.82 | 2.17 | 10.04 | 1.61 | 6.89 | 6.69 | 10.04 | 6.89 | 7.87 | 5.91 | 1.54 | 6         | 24.41 | 346          | M36 x 25.20                         | M36 x 5.31                              |
| 6255                             | 44.09 | 60.63 | 48.82 | 2.17 | 10.04 | 1.61 | 6.89 | 6.69 | 10.04 | 6.89 | 7.87 | 5.91 | 1.54 | 6         | 24.41 | 346          | M36 x 25.20                         | M36 x 5.51                              |

**Notes:** [1] Models 6090 through 6255 require two rails.

[2] Metric bolts furnished by factory; lengths shown in inches.

## Cyclo Food Industry Option Packages

Four food-grade packages are available for use in machinery where there is incidental food contact.

The following optional packages are available for Cyclo® frame sizes 6060 through 6165.

When ordering, choose the Special Specification Code (SSC) that meets your requirements to obtain the features listed below.

### Available Food Industry Option Packages (Cyclo® frame sizes 6060-6165 only)

| Modification                     | SHIELD360* | Ultra SHIELD360* | Food Grade |
|----------------------------------|------------|------------------|------------|
| Severe Duty Breather             |            | X                |            |
| FDA Epoxy Paint                  |            |                  | X          |
| FDA White Acrylic Top Coat       | X          |                  |            |
| FDA Stainless Grey Epoxy Clear   |            | X                |            |
| FDA Grease/Oil                   | X          | X                | X          |
| FKM AM & Chemical                |            | X                |            |
| Stainless Steel or Zinc Hardware |            | X                |            |
| Stainless or Tesa Nameplate      |            | X                |            |
| Stainless Steel Output Shaft     |            | X                |            |

Speed  
Reducers

Cyclo Food  
Industry

**Stainless Steel Output Shaft:** maximum torque ratings with standard solid shaft diameters are the same as those listed in this catalog for standard models. Consult the factory when ordering smaller than standard diameter, or if there will be overhung load.

**Ultra SHIELD360™:** available in a quill only.

## Warranty

Sumitomo warrants that its Cyclo® Speed Reducers and Cyclo® Gear Motors will deliver their continuous catalog ratings and up to 500% intermittent SHOCK LOAD CAPACITY, provided they are properly installed, maintained and operated within the limits of speed, torque or other load conditions under which they were sold. Sumitomo further states that Cyclo® Speed Reducers and Cyclo® Gear Motors are warranted to be free of defects in material or workmanship for a period of two years from the date of shipment. Sumitomo assumes no liability beyond product repair or replacement under this limited warranty.

For construction purposes, be sure to obtain certified dimension sheets or drawings. Although we take every precaution to include accurate data in our catalog, we cannot guarantee such accuracy. If performance guarantees are required, they should be obtained in writing from the factory. Full consideration will be given to such requests when complete details are given of the proposed installation.



Speed  
Reducers

Warranty



## CYCLO® 6000 Speed Reducers

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Speed  
Reducers

Warranty



امروزه توسعه فروشگاه های اینترنتی و معرفی محصولات از طریق اینترنت باعث شده است تا رشد قابل توجهی در بهبود کیفیت ارائه خدمات فروشگاههای شکل گیرد. بزرگترین مزیت فروشگاه های اینترنتی صرفه جویی در زمان برای انتخاب بهترین محصول است. از طرفی امروزه کمتر کسی است که بدون تحقیق و بررسی مشخصات کالا، اقدام به خرید نماید و در فروشگاه های اینترنتی این مهم قابل دسترس خواهد بود. کالا صنعتی تنها یک فروشگاه اینترنتی نیست بلکه همواره سعی دارد با آموزش مشتریان از طریق برگزاری سمینارهای آموزشی و ارائه کتب راهنما آنها را در انتخاب بهترین کالا یاری نماید. استفاده از جدید ترین متدهای آموزشی، ارائه خدمات کارشناسی و آشنا کردن هر چه بیشتر مخاطبین یا کالاهای صنعتی از جمله رسالت های این مجموعه است.

هدف ما در مجموعه کالا صنعتی بهبود روز افزون کیفیت خدمات آموزشی و فروشگاههای، ارائه خدمات بر طبق برنامه زمانبندی منظم، آموزش مستمر پرسنل فروشگاههای و اینترنتی، ارائه خدمات طبق برنامه زمانبندی شده و افزایش رضایتمندی مشتریان بوده و هست. در این راستا، ضمن به خدمت گرفتن پرسنل کارآزموده و تربیت متخصصان فنی و گرفتن نمایندگی های معتبر، با ایجاد سایت فروشگاههای پیشرفته برای کالاهای صنعتی، ساختمانی و ابزار دقیق به دنبال تحقق اهداف گروه و توسعه این مجموعه فروشگاههای است.

خاطر نشان می کند، گروه کالا صنعتی با همکاری شرکت ها و گروه های تخصصی در زمینه الکتروموتور، پمپ و گیربکس در مشهد، برای طراحی، تولید و تعمیر انواع کالای صنعتی و ارسال به سراسر ایران آمادگی دارد. لذا می توانید در قسمت **ثبت سفارش خاص**، هر نوع سفارش مربوط به کالای صنعتی را ثبت کرده و با کد رهگیری آنرا تا حصول نتیجه پیگیری نمایید. همچنین سفارشات مربوط به تعمیر الکتروموتور، تعمیر پمپ صنعتی و تعمیر گیربکس را نیز می توانید در قسمت **تعمیرات** ثبت نمایید تا کارشناسان فنی پس از بررسی، با شما تماس حاصل فرمایند.

تلفن تماس: ۰۵۱ - ۳۳۴ ۹۹ ۱۰۰