

6234 M Deep groove ball bearings

- Popular item

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

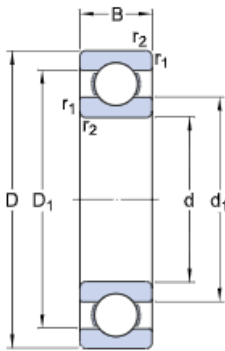
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

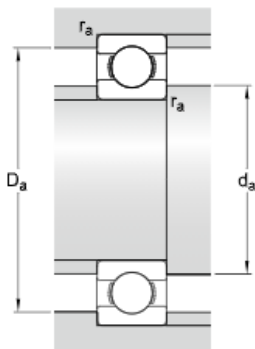


DIMENSIONS

| | | |
|------------------|-------------|-------------------|
| d | 170 mm | Bore diameter |
| D | 310 mm | Outside diameter |
| B | 52 mm | Width |
| d ₁ | ≈ 218.65 mm | Shoulder diameter |
| D ₁ | ≈ 259 mm | Shoulder diameter |
| r _{1,2} | min. 4 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|----------------|-------------|-----------------------------------|
| d _ε | min. 187 mm | Diameter of shaft abutment |
| D _i | max. 293 mm | Diameter of housing abutment |
| r _a | max. 3 mm | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|----------------|-------------|---------------------------|
| C | 212 kN | Basic dynamic load rating |
| C ₀ | 224 kN | Basic static load rating |
| P _u | 6.1 kN | Fatigue load limit |
| | 4 300 r/min | Reference speed |
| | 3 800 r/min | Limiting speed |
| k _r | 0.025 | Minimum load factor |
| f ₀ | 15.3 | Calculation factor |

MASS

| | | |
|--|---------|--------------|
| | 17.5 kg | Mass bearing |
|--|---------|--------------|

TOLERANCE CLASS

| | |
|--------|------------------------|
| Normal | Dimensional tolerances |
| Normal | Radial run-out |