



51107 Thrust ball bearings, single direction

- Popular item

Thrust ball bearings, single direction

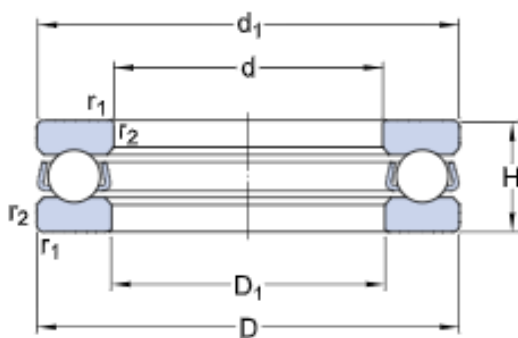
Bearing data

[Tolerances,](#)
table 1

Bearing interfaces

[Seat tolerances for standard](#)
[conditions,](#)
[Tolerances and resultant fit](#)

Technical specification

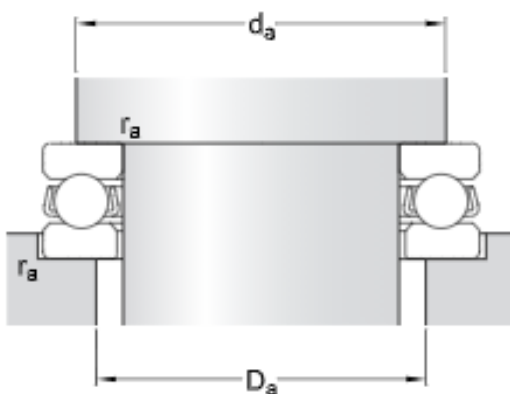


DIMENSIONS

| | | |
|-----------|-----------------|-------------------------------|
| d | 35 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| H | 12 mm | Height |
| d_1 | ≈ 52 mm | Outside diameter shaft washer |
| D_1 | ≈ 37 mm | Inner diameter housing washer |
| $r_{1,2}$ | min. 0.6 mm | Chamfer dimension washer |

ABUTMENT DIMENSIONS

| | | |
|-------|-------------|---------------------------|
| d_a | min. 45 mm | Abutment diameter shaft |
| D_i | max. 42 mm | Abutment diameter housing |
| r_a | max. 0.6 mm | Fillet radius |



CALCULATION DATA

| | | |
|----------------|-------------|---------------------------|
| C | 19.9 kN | Basic dynamic load rating |
| C ₀ | 51 kN | Basic static load rating |
| P _u | 1.86 kN | Fatigue load limit |
| | 5 600 r/min | Reference speed |
| | 7 500 r/min | Limiting speed |
| A | 0.013 | Minimum load factor |

MASS

| | |
|---------|---|
| 0.08 kg | Mass bearing (including seat washer where applicable) |
|---------|---|

More information

| | | |
|--|--|---|
| <p>Product details</p> <p>Designs and variants</p> <hr/> <p>Bearing data</p> <hr/> <p>Loads</p> <hr/> <p>Temperature limits</p> <hr/> <p>Permissible speed</p> <hr/> <p>Mounting</p> <hr/> <p>Designation system</p> <hr/> | <p>Engineering information</p> <p>Principles of rolling bearing selection</p> <hr/> <p>General bearing knowledge</p> <hr/> <p>Bearing selection process</p> <hr/> <p>Bearing interfaces</p> <hr/> <p>Seat tolerances for standard conditions</p> <hr/> <p>Lubrication</p> <hr/> <p>External sealing, mounting and dismounting</p> <hr/> <p>Bearing failure and how to prevent it</p> <hr/> | <p>Tools</p> <p>Bearing Select</p> <hr/> <p>Engineering Calculator</p> <hr/> <p>SimPro Quick</p> <hr/> <p>LubeSelect for SKF greases</p> <hr/> <p>Heater selection tool</p> <hr/> |
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