

# 53410

## Thrust ball bearings, single direction

Bearing data

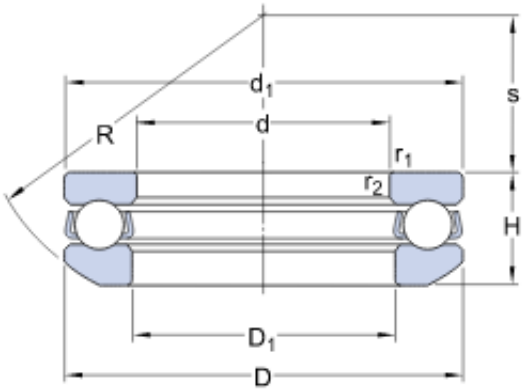
Tolerances,
table 1

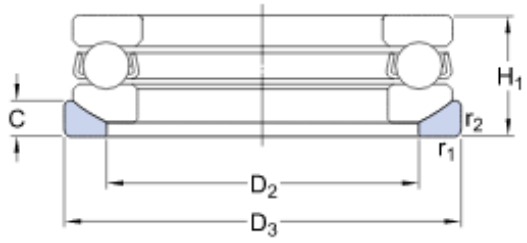
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

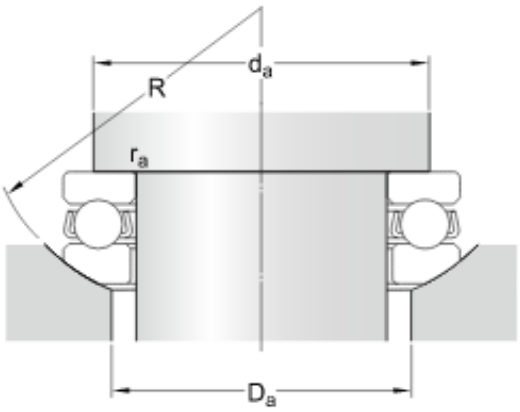



### DIMENSIONS

| | |
|---|---|
| d | 50 mm |
| D | 110 mm |
| H | 45.6 mm |
| $H_1$ | 50 mm |
| $d_1$ | ≈ 110 mm |
| $D_1$ | ≈ 52 mm |
| s | 35 mm |
| $r_{1,2}$ | min. 1.5 mm |

### ABUTMENT DIMENSIONS




| | |
|---|---|
| $d_a$ | min. 86 mm |
| $D_a$ | max. 80 mm |
| $r_a$ | max. 1.5 mm |




## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 159 kN |
| Basic static load rating | $C_0$ | 340 kN |
| Fatigue load limit | $P_u$ | 12.5 kN |
| Reference speed | | 1900 r/min |
| Limiting speed | | 2600 r/min |
| Minimum load factor | A | 0.6 |

## MASS

| | |
|---|---|
| Mass bearing (including seat washer where applicable) | 2.31 kg |

## More information

### Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Mounting
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

### Tools

- Bearing Select
- Engineering Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool

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