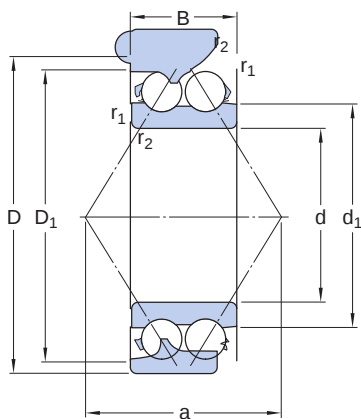


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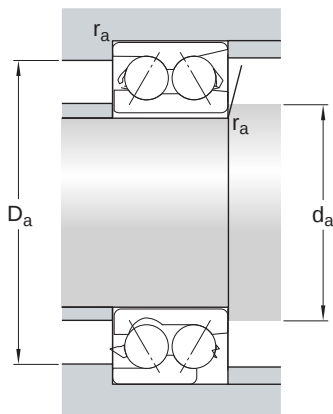
Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.



- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings



| Dimensions       |             |                              |
|------------------|-------------|------------------------------|
| d                | 65 mm       | Bore diameter                |
| D                | 120 mm      | Outside diameter             |
| B                | 38.1 mm     | Width                        |
| d <sub>1</sub>   | ≈ 84.97 mm  | Shoulder diameter inner ring |
| D <sub>1</sub>   | ≈ 102.58 mm | Shoulder diameter outer ring |
| r <sub>1,2</sub> | min. 1.5 mm | Chamfer dimension inner ring |
| a                | 71 mm       | Distance pressure point(s)   |



| Abutment dimensions |             |                           |
|---------------------|-------------|---------------------------|
| d <sub>a</sub>      | min. 74 mm  | Abutment diameter shaft   |
| D <sub>a</sub>      | max. 111 mm | Abutment diameter housing |
| r <sub>a</sub>      | max. 1.5 mm | Fillet radius             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 80.6 kN     |
| Basic static load rating  | C <sub>0</sub> | 73.5 kN     |
| Fatigue load limit        | P <sub>u</sub> | 3.1 kN      |
| Reference speed           |                | 5 600 r/min |
| Limiting speed            |                | 4 800 r/min |
| Calculation factor        | k <sub>r</sub> | 0.06        |
| Limiting value            | e              | 0.8         |
| Calculation factor        | X              | 0.63        |
| Calculation factor        | Y <sub>0</sub> | 0.66        |
| Calculation factor        | Y <sub>1</sub> | 0.78        |
| Calculation factor        | Y <sub>2</sub> | 1.24        |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit