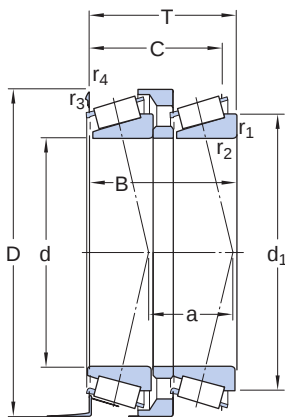


T7FC 045T62/CL7CDTC10

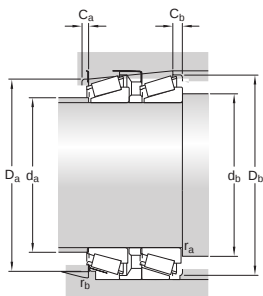
Matched tapered roller bearings arranged in tandem (load lines are in parallel towards the bearing axis) are used when the load carrying capacity of a single bearing is inadequate. The two bearings share radial and axial loads equally because of the precision manufactured intermediate rings between the inner and outer rings. Tandem arrangements can accommodate axial loads in one direction only. A third bearing must be added and adjusted against the tandem pair.



- High load carrying capacity
- Designed for axial loads in one direction
- Relatively high stiffness
- Surface finish on the contact surfaces of the rollers and raceways that enhances operational reliability



| Dimensions       |             |                                  |
|------------------|-------------|----------------------------------|
| d                | 45 mm       | Bore diameter                    |
| D                | 95 mm       | Outside diameter                 |
| T                | 62 mm       | Total width                      |
| d <sub>1</sub>   | ≈ 73.4 mm   | Shoulder diameter of inner ring  |
| B                | 59.5 mm     | Width of inner rings             |
| C                | 53 mm       | Width of outer rings             |
| r <sub>1,2</sub> | min. 2.5 mm | Chamfer dimension                |
| r <sub>3,4</sub> | min. 2.5 mm | Chamfer dimension                |
| a                | 33 mm       | Distance between pressure points |



| Abutment dimensions |            |                              |
|---------------------|------------|------------------------------|
| d <sub>a</sub>      | max. 54 mm | Diameter of shaft abutment   |
| d <sub>b</sub>      | min. 56 mm | Diameter of shaft abutment   |
| D <sub>a</sub>      | min. 71 mm | Diameter of housing abutment |

|       |             |                                                               |
|-------|-------------|---------------------------------------------------------------|
| $D_a$ | max. 85 mm  | Diameter of housing abutment                                  |
| $D_b$ | min. 91 mm  | Diameter of housing abutment                                  |
| $C_a$ | min. 3 mm   | Minimum width of space required in housing on large side face |
| $C_b$ | min. 9 mm   | Minimum width of space required in housing on small side face |
| $r_a$ | max. 2.5 mm | Radius of fillet                                              |
| $r_b$ | max. 2.5 mm | Radius of housing fillet                                      |

### Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| AGA performance class     |       | AGA Explorer |
| Basic dynamic load rating | C     | 189 kN       |
| Basic static load rating  | $C_0$ | 224 kN       |
| Fatigue load limit        | $P_u$ | 25.5 kN      |
| Reference speed           |       | 4 000 r/min  |
| Limiting speed            |       | 7 000 r/min  |
| Limiting value            | e     | 0.88         |
| Calculation factor        | Y     | 0.68         |
| Calculation factor        | $Y_0$ | 0.4          |

### Tolerances and clearances

#### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal + CL7C, P5, total width
- Internal clearance: values

#### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit