

32960/DFC1180

Matched tapered roller bearings arranged face-to-face (X-arrangement, load lines diverge towards the bearing axis) accommodate high radial loads and axial loads in both directions. The precision manufactured intermediate ring between the outer rings enables a defined internal clearance or preload to be achieved when mounted. Matched tapered roller bearings are typically used in gearboxes, hoisting equipment, rolling mills, and machines in the mining industry.



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



Dimensions		
d	300 mm	Bore diameter
D	420 mm	Outside diameter
T	152 mm	Total width
2B	152 mm	Width of inner rings
b	20 mm	Width of lubrication groove
K	15 mm	Diameter of lubrication hole
r _{3,4}	min. 3 mm	Chamfer dimension
r ₅	min. 1 mm	Chamfer dimension



Abutment dimensions		
da	max. 325 mm	Diameter of shaft abutment
Da	min. 383 mm	Diameter of housing abutment
Da	max. 404 mm	Diameter of housing abutment
Ca	min. 13 mm	Minimum width of space required in housing on large side face

r_a	max. 4 mm	Radius of fillet
r_c	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 931 kN
Basic static load rating	C_0	4 500 kN
Fatigue load limit	P_u	375 kN
Reference speed		800 r/min
Limiting speed		1 300 r/min
Limiting value	e	0.4
Calculation factor	Y_1	1.7
Calculation factor	Y_2	2.5
Calculation factor	Y_0	1.6

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