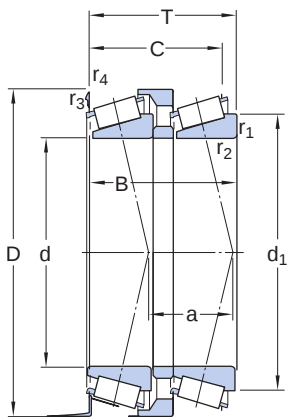


T7FC 050T69/CL7CDTC10

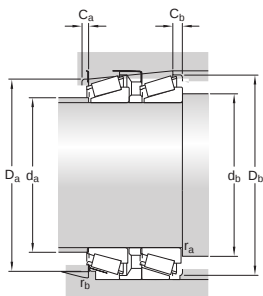
Matched tapered roller bearings arranged in tandem (load lines are in parallel towards the bearing axis) are used when the load carrying capacity of a single bearing is inadequate. The two bearings share radial and axial loads equally because of the precision manufactured intermediate rings between the 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	50 mm	Bore diameter
D	105 mm	Outside diameter
T	69 mm	Total width
d ₁	≈ 81.3 mm	Shoulder diameter of inner ring
B	66 mm	Width of inner rings
C	59 mm	Width of outer rings
r _{1,2}	min. 3 mm	Chamfer dimension
r _{3,4}	min. 3 mm	Chamfer dimension
a	37 mm	Distance between pressure points



Abutment dimensions		
d _a	max. 60 mm	Diameter of shaft abutment
d _b	min. 62 mm	Diameter of shaft abutment
D _a	min. 78 mm	Diameter of housing abutment

D_a	max. 94 mm	Diameter of housing abutment
D_b	min. 100 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 10 mm	Minimum width of space required in housing on small side face
r_a	max. 3 mm	Radius of fillet
r_b	max. 3 mm	Radius of housing fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	229 kN
Basic static load rating	C_0	275 kN
Fatigue load limit	P_u	31.5 kN
Reference speed		3 600 r/min
Limiting speed		6 300 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