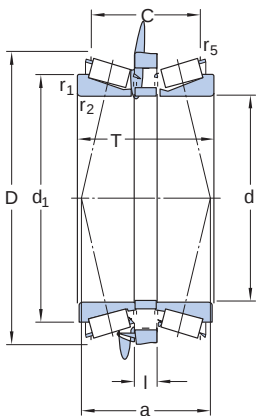


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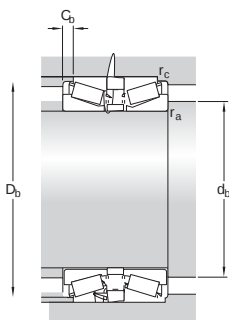
Matched tapered roller bearings arranged back-to-back (O-arrangement, load lines diverge towards the bearing axis) accommodate high radial loads, axial loads in both directions, and tilting moments. The precision manufactured intermediate rings between the inner and outer rings enable a defined internal 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
- Accommodate tilting moments
- Relatively high stiffness
- Surface finish on the contact surfaces of the rollers and raceways that enhances operational reliability



Dimensions		
d	70 mm	Bore diameter
D	110 mm	Outside diameter
T	108.8 mm	Total width
d ₁	≈ 88.95 mm	Shoulder diameter of inner ring
I	46.8 mm	Width of spacer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
r ₅	min. 0.6 mm	Chamfer dimension
a	91.855 mm	Distance between pressure points



Abutment dimensions		
db	min. 79.5 mm	Diameter of shaft abutment
Db	min. 105 mm	Diameter of housing abutment
Cb	min. 5.5 mm	Minimum width of space required in housing on small side face

r_a	max. 1.5 mm	Radius of fillet
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r_c	max. 0.6 mm	Radius of fillet
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Calculation data

AGA performance class	AGA Explorer	
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Basic dynamic load rating	C	273 kN
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Basic static load rating	C_0	400 kN
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Fatigue load limit	P_u	45.5 kN
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Reference speed	3 800 r/min	
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Limiting speed	5 600 r/min	
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Limiting value	e	0.28
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Calculation factor	Y_1	2.4
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Calculation factor	Y_2	3.6
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Calculation factor	Y_0	2.5
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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