



BTW 160 CM/SP Double direction angular contact thrust ball bearing, super-precision, basic design

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Double direction angular contact thrust ball bearings are designed to locate spindle shafts axially in both directions. These bearings are intended for mounting in combination with cylindrical roller bearings, and consist of two single row angular contact thrust ball bearings arranged back-to-back. The large number of balls enables these bearings to accommodate high axial loads in both directions and provides a high degree of system rigidity.

- Accommodate high axial loads in both directions
- Offer maximum load carrying capacity and maximum system rigidity
- Available for shaft diameters from 35 to 200 mm
- Available with either steel or ceramic balls
- Separable

Technical Specification

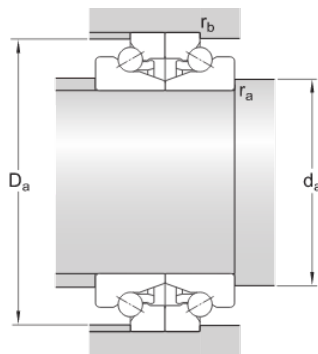


Dimensions

d	160 mm	Bore diameter
D	240 mm	Outside diameter
H	96 mm	Height
d ₁	206.4 mm	Shoulder diameter shaft washer (high shoulder)
2C	48 mm	Height of both housing washers
r _{1,2}	min. 2.1 mm	Shaft washer chamfer radius
r _{3,4}	min. 1 mm	Housing washer small chamfer radius

Abutment dimensions

d _a	min. 190 mm	Abutment diameter shaft
D _a	min. 226 mm	Abutment diameter shaft
D _a	max. 227 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius
r _b	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	140 kN
Basic static load rating	C ₀	510 kN
Fatigue load limit	P _u	16.6 kN
Attainable speed for grease lubrication		2 800 r/min
Attainable speed for oil-air lubrication		3 400 r/min
Contact angle	α	60 °
Preload		1 100 N

Static axial stiffness		1 220 N/ μ m
Reference grease quantity	G_{ref}	66.7 cm ³

Mass

Mass bearing		12.8 kg
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