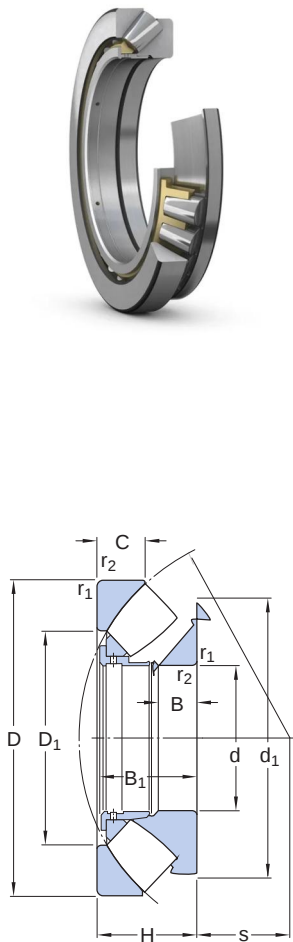


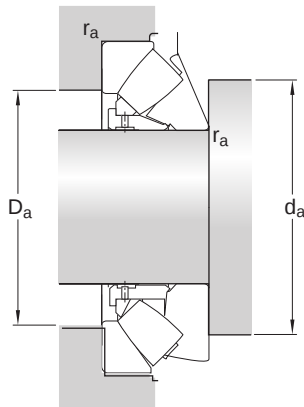
293/500

Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust bearings, it is possible to create a bearing arrangement that is either self-aligning, allowing misalignment of the shaft, or very stiff.



- High load carrying capacity
- Can accommodate combined loads
- Allow misalignment or create very stiff bearing arrangements
- Long service life and low friction
- Separable design

Dimensions		
d	500 mm	Bore diameter
D	750 mm	Outside diameter
H	150 mm	Height
d ₁	≈ 725 mm	Outside diameter of shaft washer end side face
D ₁	≈ 611 mm	Shoulder diameter outer ring
B	50 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a machined cage)
B ₁	144 mm	Height shaft washer + cage
C	74 mm	Height housing washer
s	280 mm	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 6 mm	Chamfer dimension shaft washer



Abutment dimensions

d_a	min. 630 mm	Diameter of shaft abutment
D_a	max. 675 mm	Diameter of housing abutment
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 490 kN
Basic static load rating	C_0	20 400 kN
Fatigue load limit	P_u	1 560 kN
Reference speed		430 r/min
Limiting speed		800 r/min
Minimum axial load factor	A	40

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit