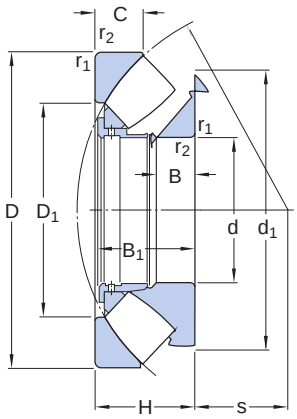
294/560 EM

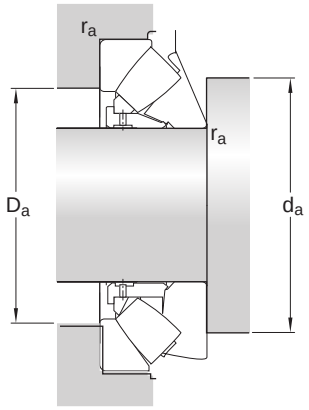
Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust bearings, it is possible to create a bearing 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	560 mm	Bore diameter
D	980 mm	Outside diameter
H	250 mm	Height
d_1	≈ 890 mm	Outside diameter of shaft washer end side face
D_1	≈ 727 mm	Shoulder diameter outer ring
B	99 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a machined cage)
B_1	241 mm	Height shaft washer + cage
C	122 mm	Height housing washer
s	328 mm	Distance from shaft washer end side face to pressure point
$r_{1,2}$	min. 12 mm	Chamfer dimension shaft washer



Abutment dimensions

d_a	min. 770 mm	Diameter of shaft abutment
D_a	max. 850 mm	Diameter of housing abutment
r_a	max. 10 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	12 000 kN
Basic static load rating	C_0	51 000 kN
Fatigue load limit	P_u	3 550 kN
Reference speed		300 r/min
Limiting speed		560 r/min
Minimum axial load factor	A	250

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit