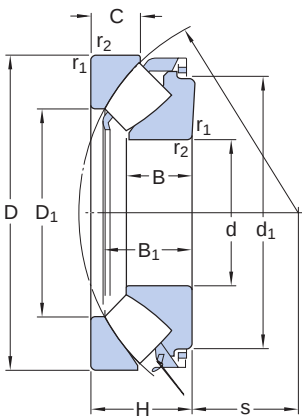


29460 E

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.



Dimensions		
d	300 mm	Bore diameter
D	540 mm	Outside diameter
H	145 mm	Height
d ₁	≈ 485 mm	Outside diameter of shaft washer end side face
D ₁	≈ 392 mm	Shoulder diameter outer ring
B	95 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B ₁	130.3 mm	Height shaft washer + cage
C	70.5 mm	Height housing washer
s	175 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. 415 mm	Diameter of shaft abutment
d_{b1}	max. 319 mm	Abutment diameter of spacer ring
d_{b2}	max. 340 mm	Outside diameter of spacer ring
D_a	max. 465 mm	Diameter of housing abutment
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 000 kN
Basic static load rating	C_0	16 600 kN
Fatigue load limit	P_u	1 340 kN
Reference speed		670 r/min
Limiting speed		1 200 r/min
Minimum axial load factor	A	24

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit