

29452 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	260 mm	Bore diameter
D	480 mm	Outside diameter
H	132 mm	Height
d ₁	≈ 427 mm	Outside diameter of shaft washer end side face
D ₁	≈ 346 mm	Shoulder diameter outer ring
B	86 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B ₁	119 mm	Height shaft washer + cage
C	63 mm	Height housing washer
s	154 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. 365 mm	Diameter of shaft abutment
d_{b1}	max. 278 mm	Abutment diameter of spacer ring
d_{b2}	max. 296 mm	Outside diameter of spacer ring
D_a	max. 412 mm	Diameter of housing abutment
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 050 kN
Basic static load rating	C_0	12 900 kN
Fatigue load limit	P_u	1 080 kN
Reference speed		750 r/min
Limiting speed		1 300 r/min
Minimum axial load factor	A	16

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit