



SKF 29440 E

Spherical roller thrust bearing with stamped steel cage

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.

Technical specifications

Dimensions	
Bore diameter	200 mm
Outside diameter	400 mm
Height	122 mm
Outside diameter of shaft washer end side face	350 mm
Shoulder diameter outer ring	278 mm
Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)	77 mm
Height shaft washer + cage	107.1 mm
Height housing washer	59.4 mm
Distance from shaft washer end side face to pressure point	122 mm
Chamfer dimension shaft washer	5 mm

Abutment dimensions	
Diameter of shaft abutment	295 mm
Abutment diameter of spacer ring	217.5 mm
Outside diameter of spacer ring	234 mm
Diameter of housing abutment	337 mm
Fillet radius	4 mm

Calculation data	
Basic dynamic load rating	3200 kN
Basic static load rating	9000 kN
Fatigue load limit	850 kN
Reference speed	850 r/min
Limiting speed	1600 r/min
Minimum axial load factor	7.7

Performance	
Basic dynamic load rating	3200 kN
Basic static load rating	9000 kN
Reference speed	850 r/min
Limiting speed	1600 r/min
SKF performance class	SKF Explorer

Properties	
Locating feature, housing washer	None
Bore type	Cylindrical
Cage	Sheet metal
Tolerance class	Normal
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	230 kg CO ₂
Indicative carbon footprint for remanufactured product	80.5 kg CO ₂

Logistics	
Product net weight	63.9 kg
eClass code	23-05-11-03
UNSPSC code	31171507

SKF drawings

