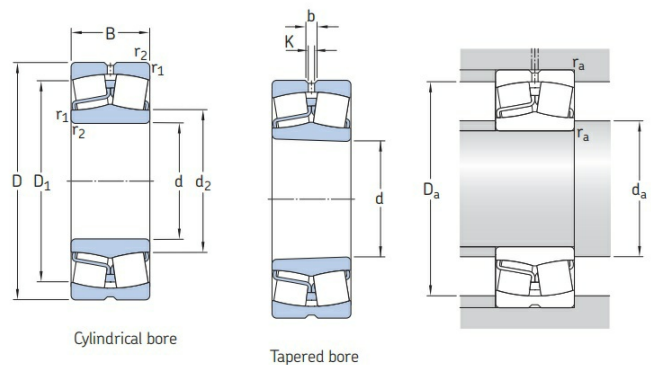


22320E

Spherical roller bearings, double row



Technical sheet of 22320E

What are the Benefits of choosing 22320E bearings?

- **Extreme Heavy-Duty Capacity:** Highest rated load in its class, approximately 50% higher than the 222 series, designed for extreme heavy loads and harsh conditions.
- **Superior Durability:** Withstands extremely high bidirectional axial and radial impacts; its internal design is also exceptionally vibration-resistant, ensuring stable operation.
- **Self-Alignment Compensation:** Effectively compensates for shaft deflection or installation misalignment (typically allowing 1-2°) without affecting bearing life.
- **Robust Cage:** Standard one-piece precision brass cage provides excellent guidance and exceptional reliability and durability in harsh environments.

Type :	Spherical Roller Bearings	
Model :	22320E	
Main demensions :	100 mm × 215 mm × 73 mm	Bore Dia × Outside Dia × Width Dia
M kg:	13.5	Mass
HS Code :	8482300000	Bearing customs code
d mm:	100	inner ring diameter
D mm:	215	Outer ring diameter
B(T) mm:	73	Overall Width

Cr kN:	846.67	Radial dynamic load rating
C0r kN:	949.153	Radial static load rating
Grease r/min:	2391	Reference speed
Oil r/min:	2988	Limiting speed

Detailed parameters and installation dimensions:

Part Number	22320E
Internal design	E = Optimized internal design for increased load carrying capacity, Flangeless inner ring and two stamped steel cages Annular groove and three lubrication holes in the outer ring, Guide ring centred on the cage
Bearing Type	Spherical roller bearings, double row
Bearing Mass - m	13.5 kg 29.762 lb
Seal	open
Series	223..-E
Cage	stamped steel cages
Bore Type	Z = cylindrical bore
RIC	Normal
Units	Metric
Rows NO.	2
Manufacturer Part Code	22320E
Ring Material	GCr15SiMn
Roller Material	GCr15SiMn
Dimension	
Inside - d ϕ (mm)	100 mm 3.937 inch
Outside - D Φ (mm)	215 mm 8.465 inch
Width - B (mm)	73 mm 2.874 inch
b	11.1 mm 0.437 inch
K	6 mm 0.236 inch
d ₂	130 mm 5.118 inch
D ₁	184 mm 7.244 inch
Fillet - r _a (max.)	2.5 mm 0.098 inch
Fillet - r _{1,r2} (min.)	3 mm 0.118 inch
Angular misalignment	2 degrees
Performance	

Dynamic Radial Capacity - C_r	846670 N 190331 lbf
Static Radial Capacity - C_{0r}	949153 N 213369 lbf
Fatigue Radial Capacity - P_u	87224 N 19607 lbf
Temperature - T(min)	-30
Temperature - T(max)	+200
Speed ratings (grease) - n_B	2391 rpm
Speed ratings (oil) - n_G	2988 rpm
Heat stabilization	392 °F (200 °C)
Abutment dimensions	
d_a (min.)	114 mm 4.488 inch
D_a (max.)	201 mm 7.913 inch
Calculation factor	
e	0.33
Y_1	2
Y_2	3
Y_0	2

What are the applications of the 22320E bearing?

- **Mining/Metallurgy/Cement:** Used in crushers and vibrating screens. Impact resistant, withstands extreme heavy loads, and adaptable to harsh environments.
- **Paper/Steel:** Used in rolling mills and roller conveyors. Automatic self-aligning compensation effectively addresses shaft deflection or misalignment.
- **Industrial Transmission:** Used in speed reducers and fans. Smooth operation, long service life, and withstands complex composite loads.

Tradebearing(TBS): <https://en.tradebearings.com/>

Email: admin@tradebearings.com
 Whatsapp/Mob.: +86 15906428604