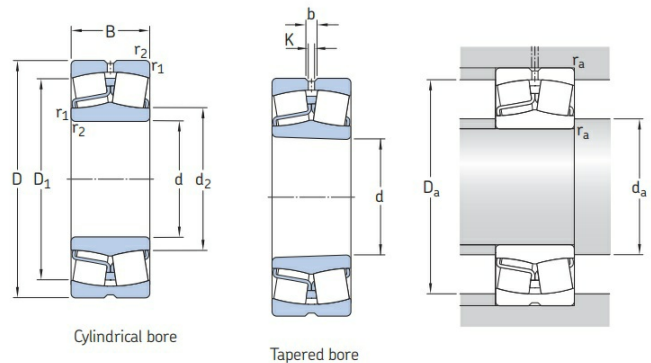


23030 CC/W33

Spherical roller bearings, double row



Technical sheet of 23030 CC/W33

What are the Benefits of choosing 23030 CC/W33 bearings?

- **Low cross-section, high speed:** Featuring a thin-walled design, the outer diameter is smaller for the same inner diameter, resulting in lighter weight, saving installation space, and allowing for higher limiting speeds.
- **High load capacity, self-aligning:** Possesses high radial load capacity and automatically compensates for shaft deflection, misalignment, and installation errors, reducing equipment vibration.
- **Durable and optimized:** Utilizes high-quality steel and an optimized internal roller structure, resulting in a lower coefficient of friction and less heat generation, thus extending bearing life.

Type :	Spherical Roller Bearings	
Model :	23030 CC/W33	
Main demensions :	150 mm × 225 mm × 56 mm	Bore Dia × Outside Dia × Width Dia
M kg:	7.95	Mass
HS Code :	8482300000	Bearing customs code
d mm:	150	inner ring diameter
D mm:	225	Outer ring diameter
B(T) mm:	56	Overall Width

Cr kN:	525.899	Radial dynamic load rating
C_{0r} kN:	744.793	Radial static load rating
Grease r/min:	2378	Reference speed
Oil r/min:	3186	Limiting speed

Detailed parameters and installation dimensions:

Part Number	23030 CC/W33
Internal design	CC = Flangeless inner ring, guide ring centred on the inner ring, two stamped steel cages
Bearing Type	Spherical roller bearings, double row
Bearing Mass - m	7.95 kg 17.527 lb
Seal	open
Series	230..-CC/W33
Cage	CC = stamped steel cages
Lubrication	W33 = Annular groove and three lubrication holes in the outer ring
Bore Type	Z = cylindrical bore
RIC	Normal
Units	Metric
Rows NO.	2
Manufacturer Part Code	23030CC/W33
Ring Material	GCr15SiMn
Roller Material	GCr15SiMn
Dimension	
Inside - d ϕ (mm)	150 mm 5.905 inch
Outside - D Φ (mm)	225 mm 8.858 inch
Width - B (mm)	56 mm 2.205 inch
b	8.3 mm 0.327 inch
K	4.5 mm 0.177 inch
d ₂	169 mm 6.654 inch
D ₁	203 mm 7.992 inch
Fillet - r _a (max.)	2 mm 0.079 inch
Fillet - r _{1,r2} (min.)	2.1 mm 0.083 inch
Angular misalignment	1.5 degrees
Performance	
Dynamic Radial Capacity - C _r	525899 N 118222 lbf
Static Radial Capacity - C _{0r}	744793 N 167429 lbf
Fatigue Radial Capacity - P _u	68416 N 15379 lbf
Temperature - T(min)	-30
Temperature - T(max)	+200

Speed ratings (grease) - n_B	2378 rpm
Speed ratings (oil) - n_G	3186 rpm
Heat stabilization	392 °F (200 °C)
Abutment dimensions	
d_a (min.)	161 mm 6.339 inch
D_a (max.)	214 mm 8.425 inch
Calculation factor	
e	0.22
Y_1	3
Y_2	4.6
Y_0	2.8

What are the applications of the 23030 CC/W33 bearing?

- **Mining/Metallurgy:** Used in vibrating screens and rolling mills. The effect is to withstand heavy impacts, automatically compensate for errors caused by equipment deformation, and ensure stable operation under harsh conditions.
- **Papermaking/Drying:** Used in drying drums. The effect is high temperature resistance, high speed, and low cross-section to save space, ensuring reliable continuous operation.
- **General Machinery:** Used in fans and gearboxes. The effect is to reduce frictional heat and vibration noise, extending equipment maintenance cycles and service life.

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