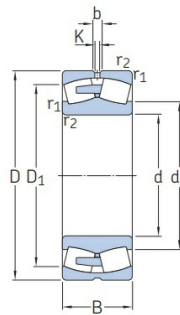


230/750 CA/W33

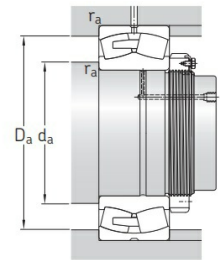
Spherical roller bearings, double row



Cylindrical bore



Tapered bore



Technical sheet of 230/750 CA/W33

What are the Benefits of choosing 230/750 CA/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 :	230/750 CA/W33	
Old Code :	230/750CA/W33	
Main dimensions :	750 mm × 1090 mm × 250 mm Bore Dia × Outside Dia × Width Dia	
M kg:	795	Mass
HS Code :	8482300000	Bearing customs code
d mm:	750	inner ring diameter
D mm:	1090	Outer ring diameter

B(T) mm:	250	Overall Width
Cr kN:	10055.855	Radial dynamic load rating
C0r kN:	18594.86	Radial static load rating
Grease r/min:	273	Reference speed
Oil r/min:	524	Limiting speed

Detailed parameters and installation dimensions:

Part Number	230/750 CA/W33
Internal design	CA = Retaining flanges on the inner ring, guide ring centred on the inner ring, machined brass cage
Bearing Type	Spherical roller bearings, double row
Bearing Mass - m	795 kg 1752.657 lb
Seal	open
Series	230..-CA/W33
Cage	CA = brass cage
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	230/750CA/W33
Ring Material	GCr15SiMn
Roller Material	GCr15SiMn
Dimension	
Inside - d ϕ (mm)	750 mm 29.528 inch
Outside - D Φ (mm)	1090 mm 42.913 inch
Width - B (mm)	250 mm 9.843 inch
b	22.3 mm 0.878 inch
K	12 mm 0.472 inch
d ₂	859 mm 33.819 inch
D ₁	998 mm 39.291 inch
Fillet - r _a (max.)	6 mm 0.236 inch
Fillet - r _{1,r2} (min.)	7.5 mm 0.295 inch
Angular misalignment	1.5 degrees
Performance	
Dynamic Radial Capacity - C _r	10055855 N 2260556 lbf
Static Radial Capacity - C _{0r}	18594860 N 4180124 lbf
Fatigue Radial Capacity - P _u	1094292 N 245996 lbf
Temperature - T(min)	-30
Temperature - T(max)	+200

Speed ratings (grease) - n_B	273 rpm
Speed ratings (oil) - n_G	524 rpm
Heat stabilization	392 °F (200 °C)
Abutment dimensions	
d_a (min.)	778 mm 30.630 inch
D_a (max.)	1062 mm 41.811 inch
Calculation factor	
e	0.21
Y_1	3.2
Y_2	4.8
Y_0	3.2

What are the applications of the 230/750 CA/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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