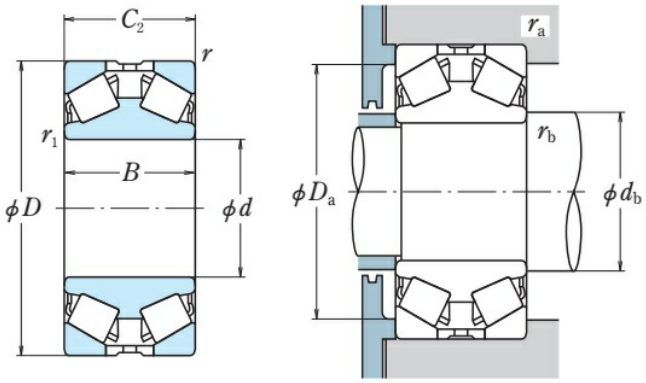
EE113090D/113170+K

Double row KDH design (Double Cone Type) tapered roller bearings





Technical sheet of EE113090D/113170+K

What are the Benefits of choosing EE113090D/113170+K bearings?

- **High rigidity:** Resistant to tilting moments, ensuring precise rotation
- **Dual-direction load capacity:** Simultaneously withstands extremely high axial and radial loads
- **Long service life:** Optimized design reduces stress and increases rated dynamic load
- **Flexible configuration:** TDO/TDI design adapts to harsh operating conditions such as gearboxes and rolling mills

Type :		Double row inch taper roller bearings
Model :		EE113090D/113170+K
Main demensions :	228.6 mm × 431.8 mm × 158.75 mm	Bore Dia × Outside Dia × Width Dia
M kg:	99.5	Mass
HS Code :	8482200000	Bearing customs code
d mm:	228.6	inner ring diameter
D mm:	431.8	Outer ring diameter
B(T) mm:	158.75	Overall Width
Cr kN:	1508.656	Radial dynamic load rating
C0r kN:	2628.671	Radial static load rating

Detailed parameters and installation dimensions:

Part Number	EE113090D/113170+K
ANSI/ABMA Type	TDI
Dimension Chamfer - r min	6.4
Dimension Chamfer - r_1 min	6.4
Series	KDH series (EE113000..+K)
Seal	Open
Bearing Mass - m	99.5 kg | 219.3577 lb
Cage Design	pressed steel or pin type
Temperature - T(min)	-30 °C
Temperature - T(max)	120 °C
Bore type	Cylindrical
Radial Internal Clearance	C0
Fillet Radius - r_a max	6.4 mm | 0.2520 inch
Fillet Radius - r_b max	6.4 mm | 0.2520 inch
Interchangeable	NSK EE113090D/113170+K
Rows NO.	Two
Units	Inch
Radial Dynamic Capacity - C_r	1508656 N | 339145 lbf
Radial Static Capacity - C_{0r}	2628671 N | 590925 lbf
Bearing Type	Double row KDH design (Double Cone Type) tapered roller bearings
Arrangement	face-to-face (><)
Design	KDH = TDI Type, Double Cone, Single Cups, Steep Angle
Constant - e	0.88
Axial Load Factors - Y_2	1.1
Axial Load Factors - Y_3	0.77
Axial Load Factors - Y_0	0.75
Suffix	K = with a cup spacer
Abutment Dimensions Shaft - d_b	259 mm | 10.1968 inch
Abutment Dimensions Housing - D_a	378 mm | 14.8819 inch
Equivalent	EE113090D/113170+K
Tolerance class	P0 = (ISO Class NORMAL / ABEC-1)
Dimension Inside - d φ	228.6 mm | 9.0000 inch
Dimension Outside - D Φ	431.8 mm | 17.0000 inch
Dimension Cone Width - B	158.75 mm | 6.2500 inch
Dimension Cup Width - C_2	158.75 mm | 6.2500 inch
Roller Material	GCr15SiMn
Cone and Cup Material	GCr15SiMn
Load	axial and radial load

What are the applications of the EE113090D/113170+K bearing?

- **Heavy Industry:** Rolling mills, metallurgical equipment, construction machinery. Withstands extremely high radial and bidirectional axial loads, adaptable to heavy-duty impacts.

- **Automotive Engineering:** Truck/bus wheels, differentials, pinion shafts. High rigidity and anti-tilting moment ensure precise stability of wheels and transmission systems.
- **High-Precision Transmission:** Machine tool spindles, gear reduction devices. Improves shaft rigidity, reduces vibration, and ensures machining accuracy and smooth operation.

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