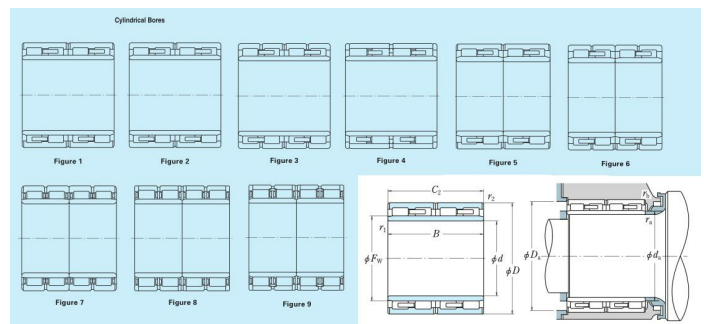


110RV1701

Cylindrical Roller Bearings, RV Type, Four-Row



Technical sheet of 110RV1701

What are the Benefits of choosing 110RV1701 bearings?

- **Extremely high load-bearing capacity:** Designed to withstand extremely high radial loads, it is ideal for equipment such as rolling mills.
- **Small footprint:** Provides maximum radial support within a limited space, with a compact structure.
- **Easy installation and maintenance:** Employs a separable design (the inner ring with roller assembly can be separated from the outer ring), facilitating installation, disassembly, and maintenance.
- **Low frictional heat generation:** Low friction between the rollers and the flanges results in low temperature rise, suitable for high-speed operation.
- **Long service life:** Maintains high reliability and long service life even under harsh conditions such as high loads, high temperatures, and water erosion.

Type :	Four-row cylindrical roller bearings	
Model :	110RV1701	
Main dimensions :	110 mm × 170 mm × 120 mm	Bore Dia × Outside Dia × Width Dia
M kg:	9.9	Mass
HS Code :	8482500090	Bearing customs code
d mm:	110	inner ring diameter
D mm:	170	Outer ring diameter
B(T) mm:	120	Overall Width

Cr kN:	612.133	Radial dynamic load rating
C_{0r} kN:	1095.545	Radial static load rating

Detailed parameters and installation dimensions:

Part Number	110RV1701
Series	RV series (..RV1701)
Temperature - T(min)	-30 °C
Temperature - T(max)	120 °C
Figure	1
Type	RV
Seal	Open
Fillet Radius - r _a max	2 mm 0.0787 inch
Fillet Radius - r _b max	2 mm 0.0787 inch
Raceway diameter of inner ring - FW	127 mm 5.0000 inch
Bore	Cylindrical
Units	Metric
Rows NO.	Four
Dimension Chamfer - r ₁ min	2 mm
Dimension Chamfer - r ₂ min	2 mm 0.0787 inch
Bearing Type	Cylindrical Roller Bearings, RV Type, Four-Row
Cage	Machined brass cage
Interchangeable	NSK 110RV1701
Radial Dynamic Capacity - C _r	612133 N 137607 lbf
Radial Static Capacity - C _{0r}	1095545 N 246278 lbf
Rolling Element Material	GCr15SiMn
Inner/Outer Ring Material	GCr15SiMn
Load	radial
Application	roll necks of hot or cold rolling mills
Dimension Inside - d φ	110 mm 4.3307 inch
Dimension Outside - D Φ	170 mm 6.6929 inch
Dimension Width - B	120 mm 4.7244 inch
Dimension Width - C ₂	120 mm 4.7244 inch
Equivalent	110 RV 1701
Bearing Mass - m	9.9 kg 21.8255 lb
Abutment Dimensions Shaft - d _a	122 mm 4.8031 inch
Abutment Dimensions Housing - D _a	157 mm 6.1811 inch

What are the applications of the 110RV1701 bearing?

- **Iron and Steel Metallurgy (Rolling Mill Roll Necks, Continuous Casting Machine Drive Rolls):** Withstands extremely high radial loads, ensuring rolling accuracy and significantly extending bearing life in high-temperature water erosion environments.
- **Mining (Crushers, Heavy-Duty Vibrating Screens):** Withstands strong impacts and dust pollution, maintaining continuous and stable operation under harsh conditions.

- **Heavy Machinery (Large Gearboxes, Rotary Kiln Support Rollers):** Provides ultra-high rigidity, supporting heavy-duty rotating components and effectively reducing downtime for maintenance.

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