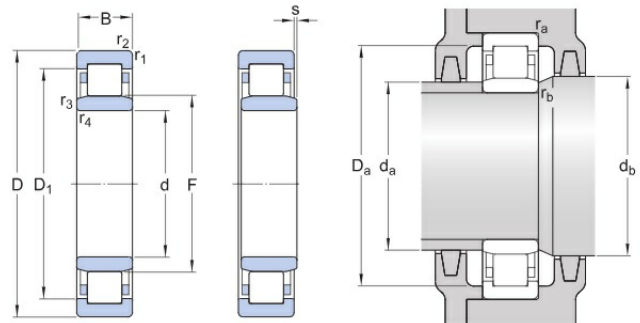


NU 2244 ECML

Single row NU design, cylindrical roller bearing



Technical sheet of NU 2244 ECML

What are the Benefits of choosing NU 2244 ECML bearings?

- **High radial load capacity:** The rollers and raceways have line contact, resulting in a rated radial load significantly higher than that of ball bearings of the same size.
- **Good high-speed performance:** Generally employs machined or stamped cages, resulting in low friction and suitability for high-speed operation.
- **High rigidity:** Minimal elastic deformation effectively supports the shaft and housing, improving the rigidity of the transmission system.
- **Separable design:** The inner ring (with roller cage) is separable from the outer ring, facilitating installation, disassembly, and maintenance.
- **Axial displacement adaptability:** Types without inner ring flanges (such as NU and N types) allow for free axial expansion and contraction of the shaft relative to the housing, addressing thermal expansion issues.
- **Compact structure:** Small cross-sectional height saves radial space.

Type :	Single row cylindrical roller bearings	
Model :	NU 2244 ECML	
Main demensions :	220 mm × 400 mm × 108 mm	Bore Dia × Outside Dia × Width Dia
M kg:	59	Mass
HS Code :	8482500090	Bearing customs code
d mm:	220	inner ring diameter

D mm:	400	Outer ring diameter
B(T) mm:	108	Overall Width
Cr kN:	1569.504	Radial dynamic load rating
C_{0r} kN:	2278.675	Radial static load rating
Grease r/min:	1584	Reference speed
Oil r/min:	2976	Limiting speed

Detailed parameters and installation dimensions:

Part Number	NU 2244 ECML
Cage	ML = Machined brass cage, window-type, inner or outer ring centred
Units	Metric
Series	NU22 series (NU22..ECML)
Speed ratings (grease) - n_B	1584 min ⁻¹
Speed ratings (oil) - n_G	2976 min ⁻¹
Seal	Open
Rows NO.	One
Bore Type	Cylindrical bore
Dimension Inside - d ϕ	220 mm 8.661 inch
Accuracy class	PN
RIC	CN
Bearing Mass - m	59 kg 130.071 lb
Calculation coefficient - k_r	0.3
Limiting value - e	0.3
Calculation coefficient - Y	0.4
Heat stabilized	150 °C(300 °F)
Dimension Outside - D Φ	400 mm 15.748 inch
Dimension Width - B	108 mm 4.252 inch
Design type	NU = have two integral flanges on the outer ring and no flanges on the inner ring
Internal design	EC = Optimized internal design
Radial Dynamic Capacity - C_r	1569504 N 352824 lbf
Dimension - r_3, r_4 (min.)	4
Dimension - D_1	350 mm 13.780 inch
Radial Static Capacity - C_{0r}	2278675 N 512246 lbf
Bearing part	Complete
Axial displacement capability	In both directions
Fatigue load limit - P_u	211780 N 47608 lbf
Manufacturer Part Code	NU2244ECML
Bearing Type	Single row NU design, cylindrical roller bearing
Permissible axial displacement - s (max)	7.9 mm 0.311 inch

Dimension - r_1, r_2 (min.)	4
Dimension - F	259 mm 10.197 inch
Ring	outer ring(2), inner ring(0)
Flange	No
Ring Material	GCr15SiMn
Mounting dimensions housing - D_a max	383 mm 15.079 inch
Fillet radius - r_a max	3 mm 0.118 inch
Fillet radius - r_b max	3 mm 0.118 inch
Mounting dimensions spacer sleeve - d_a min.	237 mm 9.331 inch
Mounting dimensions spacer sleeve - d_a max.	254 mm 10.000 inch
Roller Material	GCr15SiMn
External design	No
Mounting dimensions shaft - d_b min.	263 mm 10.354 inch
Coating	No
Lubricant	No
Relubrication	No

What are the applications of the NU 2244 ECML bearing?

- **Electric Motors and Generators:** Support high speeds and reduce frictional temperature rise.
- **Gearboxes:** Withstand high radial loads and improve transmission rigidity.
- **Pumps and Compressors:** Ensure stable rotor operation and extend service life.
- **Metallurgical Equipment:** Resistant to heavy loads and impacts, adaptable to high-temperature conditions.
- **Mining Machinery:** Resistant to vibration and dust, maintaining continuous operation.
- **Wind Power Equipment:** Reliably transmits torque and adapts to variable speed and load conditions.
- **Rail Transportation:** Withstands heavy vehicle loads and ensures safe operation.
- **Machine Tools:** Provides high-rigidity support to ensure machining accuracy.
- **Paper Machinery:** Maintains roller stability and improves paper quality.
- **Conveying Equipment:** Bears continuous loads and reduces downtime for maintenance.

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