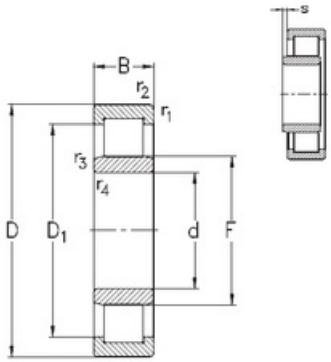
NU2214-E-TVP3



Technical sheet of NU2214-E-TVP3

Type :		Single row cylindrical roller bearings
Model :		NU2214-E-TVP3
Main demensions :	70 mm × 125 mm × 31 mm	Bore Dia × Outside Dia × Width Dia
M kg:	1.7	Mass
HS Code :	8482500090	Bearing customs code
d mm:	70	inner ring diameter
D mm:	125	Outer ring diameter
B(T) mm:	31	Overall Width
Cr kN:	175	Radial dynamic load rating
C0r kN:	197	Radial static load rating
Oil r/min:	6300	Limiting speed

Detailed parameters and installation dimensions:

d: 70 mm
F: 83.5 mm
D: 125 mm
B: 31 mm
C: 31 mm
r1 min.: 1.5 mm
r2 min.: 1.5 mm
r3 min.: 1.5 mm
r4 min.: 1.5 mm
S: 1.6 mm
Mass: 1.7 Kg
Cr: 175 kN

Cor: 197 kN
n_G: 6300 r/min

Part Number: NU2214-E-TVP3 NKE
Technical description (E-TVP3): E=Increased Load Capacity. TVP3=(Segment Cage, Code P)=Moulded Polyamide Window-Type Cage, Rolling Element Riding (Same As TVP2).
Bearing Type: Cylindrical Roller Bearings, Single Row
Bearing Size (metric): Bore Dia. (d): 70,00 mm X Outer dia. (D): 125,00 mm X Width (B): 31,00 mm or Size: 70,00 mm * 125,00 mm * 31,00 mm
Original Equipment Manufacture(OEM NO.): NU2214-E-TVP3
Bore: C (Cylindrical Bore)
Seals Type: No Seal
Cage Design: P (Plastic Molded Cage)
Radial internal clearance: Cn (Normal Internal clearance)
Precision Rating: Standard class precision
Thermal Stability: No Thermal Stability - Temperatures up to 120°C

NU2214-E-TVP3 features:
Superior Radial Load Capacity and Rigidity: The rollers and raceways have line contact, resulting in a much larger contact area compared to the point contact of ball bearings. This allows it to withstand radial loads several times greater than deep groove ball bearings of the same size, exhibiting extremely high radial rigidity and impact resistance.
High-Speed Performance: Due to the cage-guided rollers and the optimized design of the roller ends (such as logarithmic generatrices), edge stress is effectively reduced, resulting in relatively low friction. This allows it to achieve high speeds while bearing heavy loads.
Separable Design (Core Advantage): Standard cylindrical roller bearings are separable bearings. Typically, the inner ring (or outer ring) has flanges and forms an assembly with the rollers and cage, allowing for separate installation from another race (outer or inner ring).
As a "Non-locating Bearing" or "Floating Bearing": Due to its separable structure and standard design that only restricts axial movement of the shaft in one direction, it is often used as a "floating end" bearing to compensate for length changes caused by thermal expansion of the shaft and prevent harmful internal preload.
Low friction and smooth operation: Low friction operation; high-precision models operate smoothly and with low noise.

NU2214-E-TVP3 application:
Electric motors and generators; spindles of CNC machine tools and machining centers; grinding wheel spindles and workpiece spindles of grinding machines and lathes; intermediate and output shafts of industrial gearboxes, wind turbine gearboxes, and automotive transmissions; traction motors and axle boxes of railway locomotives, passenger cars, and freight cars; work rolls and support rolls of rolling mills; eccentric shafts of large crushers; slewing supports and traveling mechanisms of excavators and cranes; and supports for printing rollers.

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