



NTN Bearing Manufacturing



70 mm x 180 mm x 42 mm NTN N414
cylindrical roller bearings

Bearing No. N414

N414 Bearing 2D drawings and 3D CAD models

| | |
|-------------------------------|--------------|
| Size | 70x152x42 mm |
| Bore Diameter | 70 mm |
| Outer Diameter | 152 mm |
| Width | 42 mm |
| d | 70 mm |
| D | 180 mm |
| Ew | 152 mm |
| B | 42 mm |
| C | 42 mm |
| r min. | 3 mm |
| r1 min. | 3 mm |
| J | 110,5 mm |
| Weight | 5,1 Kg |
| Basic dynamic load rating (C) | 228 kN |
| Basic static load rating (C0) | 236 kN |
| (Grease) Lubrication Speed | 3 400 r/min |
| E | 152 mm |
| F | 100 mm |
| d1 | 110.5 mm |
| rs min | 3 mm |
| r1s min | 3 mm |
| Radial clearance class | CN |
| Mass (without HJ ring) | 5.15 kg |
| Dynamic load, C | 228 kN |
| Static load, C0 | 236 kN |



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|---|-----------|
| Fatigue limit load, C_u | 26.9 kN |
| N_{lim} (oil) | 4,000 rpm |
| N_{lim} (grease) | 3,400 rpm |
| Min operating temperature, T_{min} | -40 ° C |
| Max operating temperature, T_{max} | 120 ° C |
| Characteristic cage frequency, FTF | 0.4 Hz |
| Characteristic rolling element frequency, BSF | 4.64 Hz |
| Characteristic outer ring frequency, BPF0 | 4.36 Hz |
| Characteristic inner ring frequency, BRFI | 6.64 Hz |
| d_a min | 83 mm |
| D_a max | 167 mm |
| D_b min | 153 mm |
| D_c max | 150 mm |
| r_a max | 2.5 mm |
| r_{1a} max | 2.5 mm |