

# NTN RNA4912R needle roller bearings

NTN RNA4912R needle roller bearings Product Brochures ,  
30x17x7 Size (mm) 30 Bore Diameter (mm) Manufacturing Service  
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|                               |         |
|-------------------------------|---------|
| Size (mm)                     | 30x17x7 |
| Bore Diameter (mm)            | 30      |
| Outer Diameter (mm)           | 17      |
| Width (mm)                    | 7       |
| d                             | 17 mm   |
| D                             | 30 mm   |
| B                             | 7 mm    |
| d1                            | 20.9 mm |
| d2                            | 20.9 mm |
| D2                            | 27.8 mm |
| r1,2 – min.                   | 0.3 mm  |
| r3,4 – min.                   | 0.2 mm  |
| a                             | 9 mm    |
| da – min.                     | 19 mm   |
| da – max.                     | 20.5 mm |
| db – min.                     | 19 mm   |
| db – max.                     | 20.5 mm |
| Da – max.                     | 28 mm   |
| Db – max.                     | 28.6 mm |
| ra – max.                     | 0.3 mm  |
| rb – max.                     | 0.2 mm  |
| Basic dynamic load rating – C | 4 kN    |

|                                       |             |
|---------------------------------------|-------------|
| Basic static load rating – C0         | 2 kN        |
| Fatigue load limit – Pu               | 0.085 kN    |
| Limiting speed for grease lubrication | 45000 r/min |
| Ball – Dw                             | 3.969 mm    |
| Ball – z                              | 14          |
| Calculation factor – e                | 0.68        |
| Calculation factor – Y2               | 1.41        |
| Calculation factor – Y0               | 0.76        |
| Calculation factor – X2               | 0.67        |
| Calculation factor – Y1               | 0.92        |
| Preload class A – GA                  | 25 N        |
| Preload class B – GB                  | 50 N        |
| Preload class C – GC                  | 100 N       |
| Preload class D – GD                  | 200 N       |
| Calculation factor – f                | 1.05        |
| Calculation factor – f1               | 0.98        |
| Calculation factor – f2A              | 1           |
| Calculation factor – f2B              | 1.04        |
| Calculation factor – f2C              | 1.08        |
| Calculation factor – f2D              | 1.14        |
| Calculation factor – fHC              | 1           |
| Preload class A                       | 42 N/micron |
| Preload class B                       | 54 N/micron |
| Preload class C                       | 70 N/micron |
| Preload class D                       | 93 N/micron |
| r1,2 min.                             | 0.3 mm      |
| r3,4 min.                             | 0.2 mm      |
| da min.                               | 19 mm       |
| da max.                               | 20.5 mm     |

|   |             |
|---|-------------|
| db min.                                 | 19 mm       |
| db max.                                 | 20.5 mm     |
| Da max.                                 | 28 mm       |
| Db max.                                 | 28.6 mm     |
| ra max.                                 | 0.3 mm      |
| rb max.                                 | 0.2 mm      |
| Basic dynamic load rating C             | 3.97 kN     |
| Basic static load rating C0             | 2 kN        |
| Fatigue load limit Pu                   | 0.085 kN    |
| Attainable speed for grease lubrication | 45000 r/min |
| Ball diameter Dw                        | 3.969 mm    |
| Number of balls z                       | 14          |
| Preload class A GA                      | 25 N        |
| Static axial stiffness, preload class A | 42 N/μm     |
| Preload class B GB                      | 50 N        |
| Static axial stiffness, preload class B | 54 N/μm     |
| Preload class C GC                      | 100 N       |
| Static axial stiffness, preload class C | 70 N/μm     |
| Preload class D GD                      | 200 N       |
| Static axial stiffness, preload class D | 93 N/μm     |
| Calculation factor f                    | 1.05        |
| Calculation factor f1                   | 0.98        |
| Calculation factor f2A                  | 1           |
| Calculation factor f2B                  | 1.04        |
| Calculation factor f2C                  | 1.08        |
| Calculation factor f2D                  | 1.14        |
| Calculation factor fHC                  | 1           |
| Calculation factor e                    | 0.68        |
| Calculation factor (single, tandem) Y2  | 0.87        |

|   |          |
|---|----------|
| Calculation factor (single, tandem) Y0                | 0.38     |
| Calculation factor (single, tandem) X2                | 0.41     |
| Calculation factor (back-to-back, face-to-face)<br>Y1 | 0.92     |
| Calculation factor (back-to-back, face-to-face)<br>Y2 | 1.41     |
| Calculation factor (back-to-back, face-to-face)<br>Y0 | 0.76     |
| Calculation factor (back-to-back, face-to-face)<br>X2 | 0.67     |
| Mass bearing  | 0.017 kg |