High-Accuracy, High-Performance Cylindrical Roller Bearings

APTSURF™

Renewal of standard series and high rigidity series of cylindrical roller bearings

Features

1. Low Vibration (APTSURF)
   55% lower vibration at operating is achieved by precision enhancement of each bearing part. This contributes to a high quality machined surface in machine tool applications such as a lathe.

2. Longer life (NSKHPS)
   Renewal of precision cylindrical roller bearings as NSKHPS series. Longer life is achieved by the optimization of the bearing's internal design and improvement of processing technology.
Features of APTSURF™: High-Accuracy, High-Performance Cylindrical Roller Bearings

55% lower vibration at operating is achieved by precision enhancement of each bearing part. Bearing life: 60% longer by optimization of the bearing’s internal design and improvement of the processing technology.

Comparison of Vibration

Test Condition
Brg. Number: NN3030TBKR
Lubrication: Grease
Speed: 2000min⁻¹

RMS value of Vibration

Conventional: RMS = 1
APTSURF: RMS = 0.5

55% lower

Bearing life

60% longer

Lineup

<table>
<thead>
<tr>
<th>Bearing type</th>
<th>Cage suffix</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>NN30</td>
<td>MB</td>
<td>Roller guided brass cage</td>
</tr>
<tr>
<td>NN39</td>
<td></td>
<td></td>
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<tr>
<td>NN49</td>
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<tr>
<td>NN30</td>
<td>TB</td>
<td>Roller guided PPS cage</td>
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<td>NNU49</td>
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<td>Roller guided brass cage</td>
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<td>N10</td>
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</tr>
<tr>
<td>N19</td>
<td>MR</td>
<td>Roller guided brass cage</td>
</tr>
</tbody>
</table>

Class Series

P4 and over
APTSURF
Low vibration

P5
NSKHPS
Longer Life

Product Range:
O.D. over 62mm and 360mm or less

Numbering System

Bearing number example: N 10 12 MR KR CC0 P4

NN 30 17 Z TB KR E44 CC0 P4

For more information about NSK products, please contact: www.nsk.com

NSK used environmentally friendly paper and printing methods for this publication.