Optimized Long-Life Cylindrical Roller Bearings for Continuous Casting Machines
Bearings for Continuous Casting Machines

Bearings for Guide Rolls
Bearings used in the guide rolls of continuous casting machines are exposed to harsh conditions such as heavy load at ultra-low-speed in a hot and wet environment. High-performance bearings with longer life and higher reliability are desirable under such circumstances.

NSK has successfully developed innovative cylindrical rolling bearings through our extensive knowledge, decades of experience in production and in the steel industry, cutting-edge analysis technology, and an optimized design figure. Furthermore, these bearings feature improved handling performance that suits the required functions of guide rolls.

Load distribution is equal across the bearing, even during roll-bending & expansion.

Bearing Number List

<table>
<thead>
<tr>
<th>Dimensions (mm)</th>
<th>Bearing No.</th>
<th>Basic Load Ratings (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 180 60</td>
<td>120NUB40VC4</td>
<td>450 740</td>
</tr>
<tr>
<td>130 200 69</td>
<td>130NUB40VC4</td>
<td>570 950</td>
</tr>
<tr>
<td>140 210 69</td>
<td>140NUB40VC4</td>
<td>590 980</td>
</tr>
<tr>
<td>150 225 75</td>
<td>150NUB40VC4</td>
<td>665 1160</td>
</tr>
<tr>
<td>160 240 80</td>
<td>160NUB40VC4</td>
<td>765 1320</td>
</tr>
</tbody>
</table>

Roll Expansion

Smooth Relief Roll Expansion
Smooth relief between rollers and inner ring.

Easy Handling
From assembly to housing, these bearing are easy to handle without any special tools. This improves work efficiency and safety.

Field Test
Bearing number: 160NUB40VC4
Boundary dimensions: φd160 mm x φD240 mm x B80mm
Basic load ratings Cr: 765 (kN), Cor: 1,360 (kN)

Test period: 9 months
Production amount: Approx. 1.0M tons
Appearance: No abnormalities detected (Possible for continuous use)