Long-life Pinion Shaft with cage and roller assembly

Planetary gears in swing/travel reduction gears for construction and mining machinery are used in severe lubrication conditions where abrasion powder from gears and other foreign material can contaminate the lubricant. NSK’s Long-life Pinion Shaft with Cage and Roller Assembly (especially for Hydraulic Excavators) provides a superior service life (increase more than twice), offers greater reliability and improved surface fatigue strength.

Product Features

- Long-life technology
- Compact and lightweight
- Special heat treatment applied to shaft and rollers
- Mirror-smooth finish on shaft & rollers ensures adequate oil film thickness
- Corresponding Size: Shaft diameter up to 36mm, shaft length up to 100mm
- Corresponding Size: Inscribed circle diameter up to 36mm

Benefits

- Improved oil thickness on pinion shaft and rollers reduces fatigue flaking and increases resistance to contamination
- Special heat treatment combats surface fatigue
- Service life more than twice that of conventional bearings
- Improves time between maintenance intervals
- Compact size enables downsizing
- *Inform NSK of preferred size for simultaneous delivery of shaft with assembly.*

Condition Description

- Contamination
- High Load
- High Speed
- Lubrication

Industries

- Construction
- Quarrying, Mining and Construction

<table>
<thead>
<tr>
<th>FBNP-</th>
<th>30</th>
<th>50</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FBNP-</td>
<td>Type of Cage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Inscribed Circle Diameter (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Circumscribed Circle Diameter (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Width (mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>