

## 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



FBNP-	30	50	20
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#### Description

FBNP-	Type of Cage
30	Inscribed Circle Diameter (mm)
50	Circumscribed Circle Diameter (mm)
20	Width (mm)