

TECHNICAL INSIGHT

A PUBLICATION OF NSK EUROPE

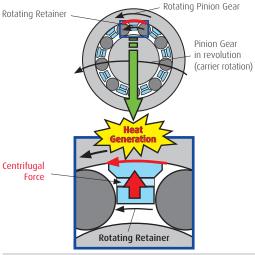
Lineup of a Cage & Roller and Planetary Shaft

Development Objectives

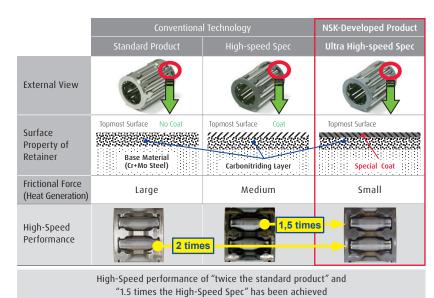
- > Application of a special coating to the bearing cage for higher speed
- > Downsizing is possible through use of NSK original material and special heat treatment

General Description and Product Features (Structure and Operating Principles)

Cage and Roller for High-Speed Planetary



Higher-speed design of planetary \rightarrow Generation of seizure and abnormal wear



Ultra-long service Life Planetary Shaft



Features of Super-long Life Planetary Shaft

- 1. Optimisation of chemical components
- Adoption of high Cr-alloy steel (NSK original)
- 2. Optimisation of heat treatment conditions
 - Optimum amount of residual austenite
- 3. Heat treatment technology employed according to specifications

Applicable to swaging and pining types

A longer life of "4.5 times more than standard product" and "2.5 times more than special heat treatment spec" has been achieved