

# NSK



## NSKHPS SPHERICAL ROLLER BEARINGS

NSKHPS Spherical Roller Bearings deliver a high performance standard for load capacities, limiting speeds and operating life across a newly expanded range of series and sizes. They provide dramatically improved reliability and maintenance cost-efficiency across a vast array of industrial applications. Maximize operating life and minimize downtime – NSK HPS Spherical Roller Bearings are designed to outperform and outlast in the toughest conditions.

### PROVEN BENEFITS

- › As long as twice the operating life of conventional designs
- › Up to 20% higher limiting speed
- › Higher dynamic load rating
- › High capacity performance enables cost-efficiency through bearing downsizing
- › Greater operational reliability and productivity and reduced maintenance costs

### CONDITIONS

**HL** HIGH LOADS

**HS** HIGH SPEEDS

**HT** HIGH TEMPERATURES

**MA** MISALIGNMENT

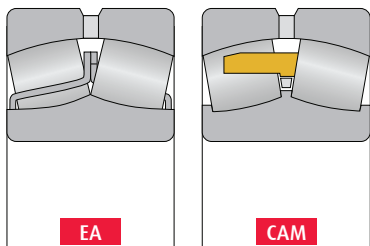
### APPLICATIONS

- › Construction machinery
- › Fans and blowers
- › Material handling
- › Mining machinery
- › Papermaking machinery
- › Steelmaking machinery

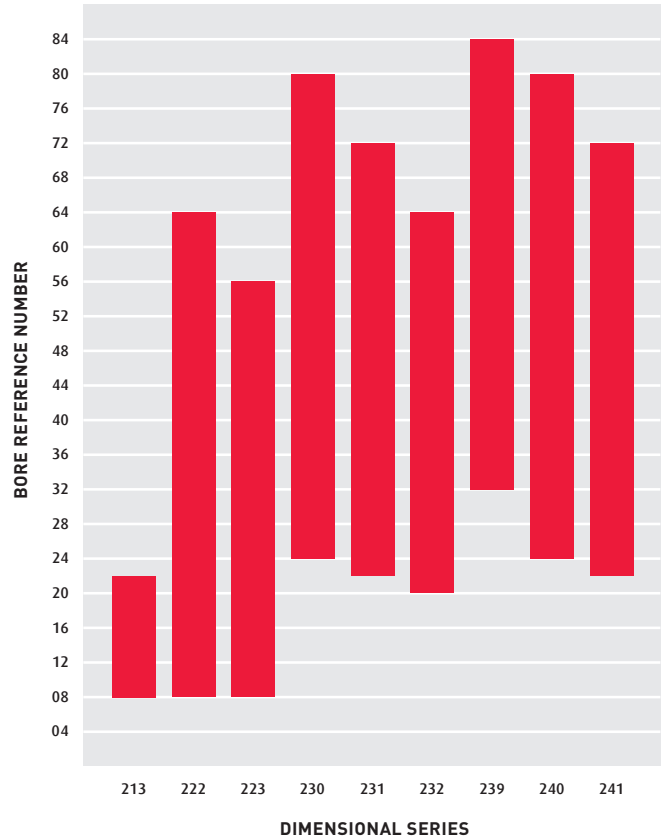
STAY IN MOTION. STAY IN CONTROL.

## DESIGN FEATURES

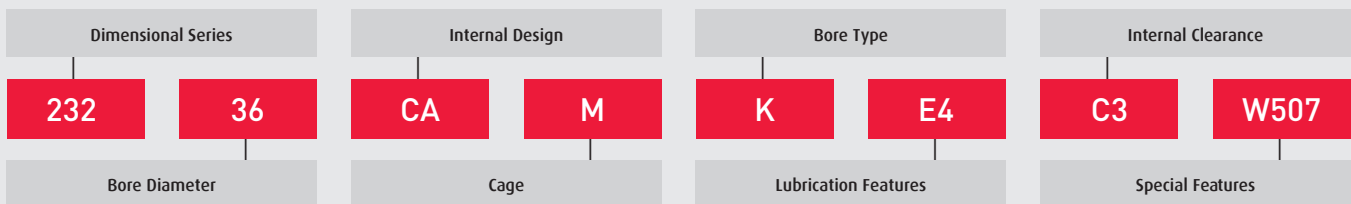
- › High strength, high purity steel for fatigue strength
- › Advanced raceway surface finishing for durability and wear resistance
- › Optimized internal design to deliver the greatest performance from roller length and cage geometry
- › Available with high-strength pressed steel cage with wear-resistant surface treatment (EA) or one-piece machined brass (CAM) cage
- › High-temperature stability specification
- › With cylindrical or tapered bore
- › With C2, CN, C3 and C4 clearance
- › From bore diameter of 40 to 420 mm



## RANGE OF AVAILABILITY



## DESIGN SPECIFICATIONS



<b>Dimensional Series</b>	213, 222, 223, 230, 231, 232, 239, 240, 241
<b>Bore Diameter</b>	From 40 to 420 mm
<b>Internal Design</b>	EA, CA: high load capacity
<b>Cage</b>	Blank: high-strength pressed steel M: heavy-duty machined brass

<b>Bore Type</b>	Blank: cylindrical K: 1:12 tapered
<b>Lubrication Features</b>	E4: groove and holes, outer ring
<b>Internal Clearance</b>	C2: tight Blank: normal C3: > normal C4: > C3
<b>Special Features</b>	W507: special packaging (also implies E4 lubrication feature in the case of abbreviated part number)