

# NSK



## NSKHPS SINGLE ROW ANGULAR CONTACT BALL BEARINGS

NSKHPS Single Row Angular Contact Ball Bearings deliver a high performance standard for smooth and quiet operation. Their innovative technology features optimized internal design with super-finished raceways to promote increased load and speed ratings, while increased dimensional and running accuracy minimize vibration and heat generation to promote extended bearing life.

### PROVEN BENEFITS

- › Increased load capacity derived from internal design
- › Bearing fatigue life increased up to 90%
- › Higher limiting speeds increased by 15 - 20%
- › Reduced heat generation, vibration and noise

### CONDITIONS

**HL** HIGH LOADS

**HS** HIGH SPEEDS

### APPLICATIONS

- › Compressors
- › Fans and blowers
- › Pumps

STAY IN MOTION. STAY IN CONTROL.

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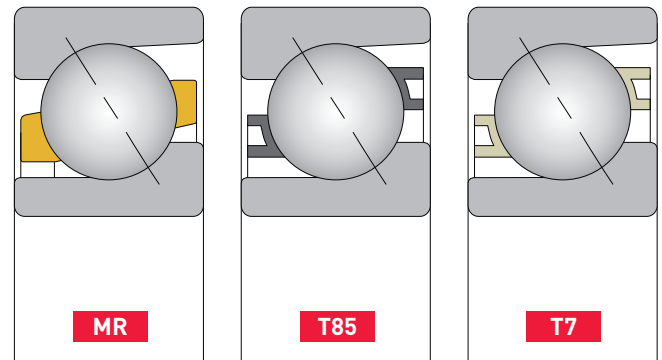
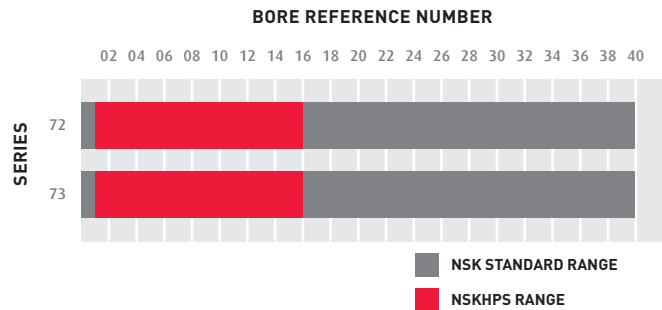


## DESIGN FEATURES

- › Advanced raceway surface finishing for durability and wear resistance
- › Optimized internal design to deliver the greatest performance from ball and cage geometry
- › Three high-performance ball-guided cage options:
  - › Reinforced polyamide 46 resin (T85) for general-purpose applications
  - › Machined brass (MR) for heavy-duty applications and API pumps
  - › Reinforced L-PPS resin cage (T7) for high temperatures and chemical exposure, particularly refrigerants or ammonia gas
- › High dimensional (P6) and running accuracy (P5)
- › 40° contact angle
- › Narrow axial clearances or preloads range
- › Universal matching

## RANGE OF AVAILABILITY

- › Available for dimensional series 72B and 73B in bore diameters ranging from 12 to 80 mm



## DESIGN SPECIFICATIONS

Dimensional Series		Contact Angle		Cage		Clearance / Preload	
72	10	B	EA	MR	SU	CNB	
Bore Reference No.		Internal Design		Arrangement			

Dimensional Series	72, 73
Bore Diameter	From 12 to 80 mm
Contact Angle	B: 40° standard
Internal Design	EA: high load capacity

Cage	MR: machined brass T85: polyamide 46 resin T7: L-PPS resin
Arrangement	SU: universal matching
Clearance / Preload	CNB: normal clearance GA: light preload
Precision Class	Blank: class 5 running accuracy class 6 dimensional accuracy