

Technical Information

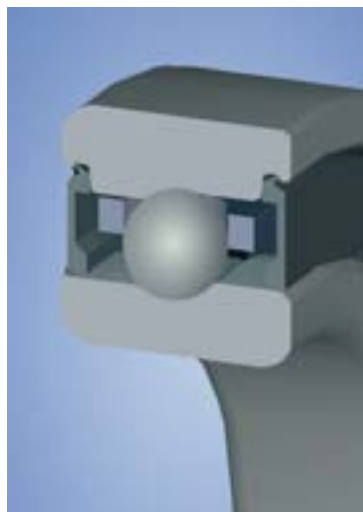
High Precision Ball Bearings Division

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Sealed GMN Spindle Bearings

The new **KH** spindle bearing series was developed for high speeds and extended bearing service life.

Advantages and Design Features

- High speeds
- Low operating temperature due to optimised raceway geometry
- High operational reliability at increased temperatures due to large radial clearance
- Optimised ball complement/load rating and ball diameter/load rating ratio
- Optimised internal geometry in respect of grease space and oil lubrication
- Optimised for-life grease lubrication, thus increased service life
- No speed reduction due to non-contact seals
- No grease loss in vertical or angular mounting positions
- Reduction in the drying out of grease due to protection from ventilation or air flow
- Reduced need for additional sealing elements
- Reduced sensitivity to contamination in the assembly area

Availability

- Bearing series 619.. and 60..
- Contact angle C or E
- Precision class P4/ABEC7, higher precision classes on request
- Steel or ceramic balls
- Sealed, with for-life grease lubrication
 - with standard grease LUBCON HS TURMOGREASE L252
 - or customised grease lubrication
- For oil lubrication (open)

**Designation Examples**

Ball material	Bearing series	Bearing size	Sealing	Contact angle	Cage	Precision	Matching	Lubrication
–	KH	6005	2RZ	C	TA	P4	DUL	TOPAS L30
Steel			sealed					
HY	KH	6005	2RZ	C	TA	P4	DUL	L252
Ceramic			sealed					
HY	KH	6005		C	TA	P4	DUL	
Ceramic			open					