View product details on medias

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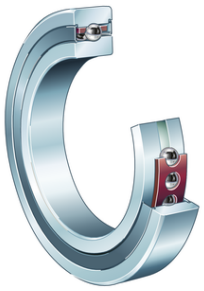


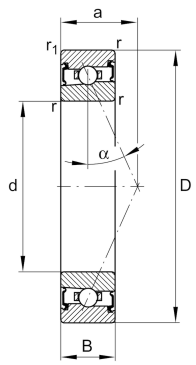
FAG

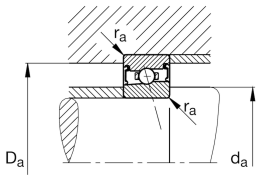
# HSS7001-E-T-P4S-UL

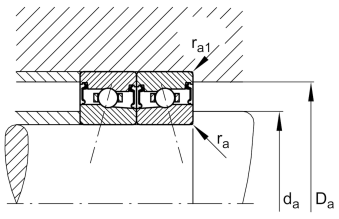
## High speed spindle bearing

High speed spindle bearing HSS70..-E, adjusted, in pairs or sets, contact angle α = 25°, lip seals on both sides, non-contact, restricted tolerances

## Technical information




### Your current product variant

| | | |
|---|---|---|
| Contact angle | E | Contact angle 25° |
| Sealing | 2RSD | Non-contact sealed on both sides and greased “for life” |
| Cage | T | Laminated fabric cage |
| Tolerance class | P4S | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Arrangement bearing set | U | Single bearing |
| Preload | L | Preload light |
| Lubricant | GA21 | Grease for super precision bearings, standard |

### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 12 mm | Bore diameter |
| D | 28 mm | Outside diameter |
| B | 8 mm | Width |
| $C_r$ | 2.320 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 910 N | Basic static load rating, radial |
| $C_{ur}$ | 97 N | Fatigue load limit, radial |
| $n_G$ Grease | 75.000 1/min | Limiting speed for grease lubrication |
| $n_G$ | 110.000 1/min | Limiting speed |
| ≈m | 25 g | Weight |

## Mounting dimensions

| | | |
|---|---|---|
| $d_a$ | 16,5 mm | Diameter shaft shoulder |
| $d_a$ | h12 | Diameter shaft shoulder clearance |
| $D_a$ | 24,5 mm | Shoulder diameter outer ring |
| $D_a$ | H12 | Shoulder diameter outer ring clearance |
| $r_{a\ max}$ | 0,3 mm | Maximum recess radius |
| $r_{a1\ max}$ | 0,1 mm | Maximum recess radius |
| a | 8,7 mm | Distance between the apexes of the pressure cones |

## Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 0,3 mm | Minimum chamfer dimension |
| $r_{1\ min}$ | 0,3 mm | Minimum chamfer dimension |
| α | 25 ° | Contact angle |

## Temperature range

| | | |
|---|---|---|
| $T_{min}$ | -30 °C | Operating temperature min. |
| $T_{max}$ | 80 °C | Operating temperature max. |

## Additional information

| | | |
|---|---|---|
| $F_{V\ L}$ | 15 N | Preload force light |
| $F_{V\ M}$ | 44 N | Preload force medium |
| $F_{V\ H}$ | 88 N | Preload force heavy |
| $K_{aE\ L}$ | 43 N | Lift-off force light |
| $K_{aE\ M}$ | 131 N | Lift-off force medium |
| $K_{aE\ H}$ | 268 N | Lift-off force heavy |
| $c_{a\ L}$ | 27 N/µm | Axial rigidity light |
| $c_{a\ M}$ | 40 N/µm | Axial rigidity medium |
| $c_{a\ H}$ | 53 N/µm | Axial rigidity heavy |

## Characteristics

Radial load

Axial load in one direction

Lifetime lubrication, freedom from maintenance


Grease Lubrication


Sealed on both sides