



FAG

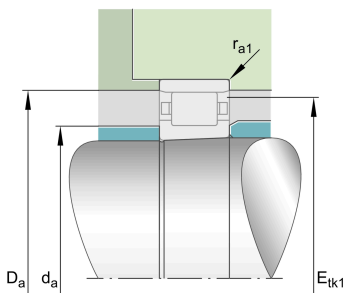
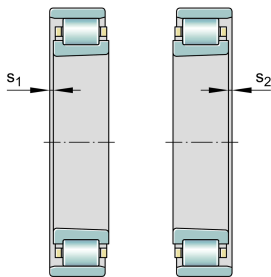
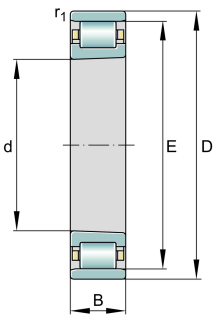
N1020-D-K-TVP-SP-XL

Cylindrical roller bearing

Super precision cylindrical roller bearings
N10..-D-K-TVP-SP, non-locating bearing,
with tapered bore, taper 1:12, separable, with
cage

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|------------------------------------|
| Cage | TVP | Plastic cage |
| Tolerance class | SP | Tolerance class SP |
| Bore type | K | Tapered, taper 1:12 |
| Change mark | D | Internal Variant D |
| Radial internal clearance | C1 (Group 1) | Internal clearance smaller than C2 |
| Number of rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|------------------------|-------------|---------------------------------------|
| d | 100 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 24 mm | Width |
| C_r | 99.000 N | Basic dynamic load rating, radial |
| C_{0r} | 118.000 N | Basic static load rating, radial |
| C_{ur} | 17.800 N | Fatigue load limit, radial |
| $n_{G \text{ Grease}}$ | 7.500 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$ | 8.800 1/min | Limiting speed for oil lubrication |
| m | 1,3 kg | Weight |



Mounting dimensions

| | | |
|----------------|----------|--|
| d_a | 115 mm | Diameter shaft shoulder |
| | h12 | Diameter shaft shoulder tolerance |
| D_a | 138,5 mm | Diameter of housing shoulder |
| | H12 | Diameter of housing shoulder tolerance |
| $E_{tk 1 nom}$ | 134,8 mm | Injection pitch diameter min |
| $r_{a1 max}$ | 1 mm | Maximum recess radius |



Dimensions

| | | |
|-----------|--------|-----------------------------|
| $r_1 min$ | 1,1 mm | Minimum chamfer dimension |
| s_1 | 4,4 mm | Axial displacement |
| s_2 | 4,4 mm | Axial displacement |
| E | 137 mm | Raceway diameter outer ring |

Temperature range

| | | |
|-----------|--------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 120 °C | Operating temperature max. |

Characteristics

| | |
|---|--------------------|
|  | Radial load |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |