

16020 Deep groove ball bearing



Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 100 mm |
| Outside diameter | 150 mm |
| Width | 16 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 46.2 kN |
| Basic static load rating | 44 kN |
| Reference speed | 9 500 r/min |
| Limiting speed | 5 600 r/min |
| SKF performance class | SKF Explorer |

Properties

| | |
|--------------------------------------|---------------|
| Filling slots | Without |
| Number of rows | 1 |
| Locating feature, bearing outer ring | None |
| Bore type | Cylindrical |
| Cage | Sheet metal |
| Matched arrangement | No |
| Radial internal clearance | CN |
| Tolerance class | Normal |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |

Technical Specification

SKF performance class

SKF Explorer

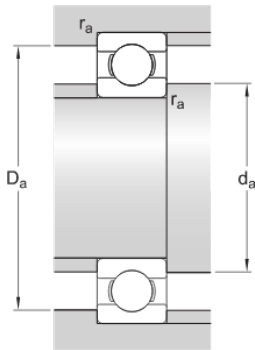


Dimensions

| | | |
|-----------|-----------|-------------------|
| d | 100 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 16 mm | Width |
| d_1 | ≈ 116 mm | Shoulder diameter |
| D_1 | ≈ 134 mm | Shoulder diameter |
| $r_{1,2}$ | min. 1 mm | Chamfer dimension |

Abutment dimensions

| | | |
|-------|-------------|-----------------------------------|
| d_a | min. 105 mm | Diameter of shaft abutment |
| D_a | max. 145 mm | Diameter of housing abutment |
| r_a | max. 1 mm | Radius of shaft or housing fillet |



Calculation data

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 46.2 kN |
| Basic static load rating | C_0 | 44 kN |
| Fatigue load limit | P_u | 1.73 kN |
| Reference speed | | 9 500 r/min |

| | | |
|---------------------|-------|-------------|
| Limiting speed | | 5 600 r/min |
| Minimum load factor | k_r | 0.02 |
| Calculation factor | f_0 | 16.5 |

Mass

| | | |
|--------------|--|---------|
| Mass bearing | | 0.94 kg |
|--------------|--|---------|

Tolerance class

| | | |
|------------------------|--|--------|
| Dimensional tolerances | | P6 |
| Radial run-out | | Normal |

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