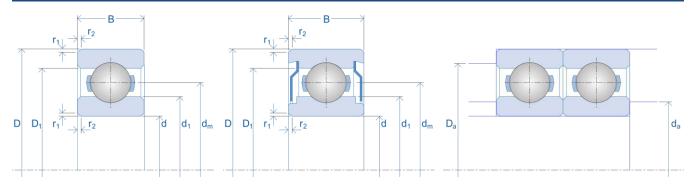


Data Sheet High Precision Ball Bearings





| Part Number | HY 6202 |
|---|---------|
| Bearing Series | Radial |
| Hybrid (Si ₃ N ₄ Balls) | Yes |

Geometrical Data

| Number of Balls | Z [Qty.] | 8 |
|-----------------|----------|-------|
| Bearing Weight | m [kg] | 0.045 |

Bearing Load Ratings¹

| Dynamic Radial Load Rating | C [N] | 7,400 |
|--|-----------------------|-------|
| Static Radial Load Rating Steel Balls | C ₀ [N] | 3,600 |
| Static Radial Load Rating Si ₃ N ₄ balls | C _{0 HY} [N] | 2,550 |

Bearing RPM Ratings²

| Speed Value with Oil Lubrication | n _{oil} [1/min] | 70,313 |
|-------------------------------------|-----------------------------|--------|
| Speed Value with Grease Lubrication | n _{grease} [1/min] | 56,250 |

Bearing Dimensions

| Bore Diameter | d [mm] | 15 |
|----------------|-----------------------|-------|
| Outer Diameter | D [mm] | 35 |
| Bearing Width | B [mm] | 11 |
| Pitch Circle | d _m [mm] | 25.3 |
| Ball Diameter | D _w [mm] | 5.953 |
| OD Inner Ring | d ₁ [mm] | 21.1 |
| ID Outer Ring | D ₁ [mm] | 29.0 |
| Chamfer | r _{1,2} [mm] | 0.6 |

Mating Part Dimensions

| Abutment Diameter Inner Ring | d _a min. [mm] | 19.5 |
|------------------------------|--------------------------|------|
| Abutment Diameter Outer Ring | D _a max. [mm] | 30.5 |
| Chamfer Associated Component | ra max. [mm] | 0.6 |

Notes:

- 1. The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
- 2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.