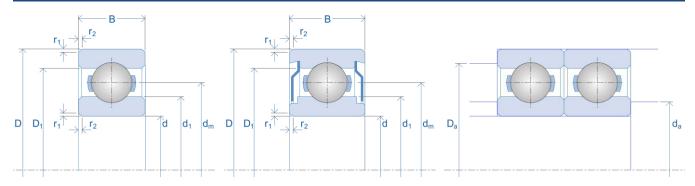


# Data Sheet High Precision Ball Bearings





Part Number	HY 607
Bearing Series	Radial
Hybrid (Si₃N₄ Balls)	Yes

#### Geometrical Data

Number of Balls	Z [Qty.]	8
Bearing Weight	m [kg]	8.000

### Bearing Load Ratings<sup>1</sup>

Dynamic Radial Load Rating	C [N]	2,280
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	950
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	C <sub>0 HY</sub> [N]	670

## Bearing RPM Ratings<sup>2</sup>

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	120,938
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	96,750

## **Bearing Dimensions**

Bore Diameter	d [mm]	7
Outer Diameter	D [mm]	19
Bearing Width	B [mm]	6
Pitch Circle	d <sub>m</sub> [mm]	13.3
Ball Diameter	D <sub>w</sub> [mm]	3.175
OD Inner Ring	d <sub>1</sub> [mm]	10.7
ID Outer Ring	D <sub>1</sub> [mm]	15.8
Chamfer	r <sub>1,2</sub> [mm]	0.3

## **Mating Part Dimensions**

Abutment Diameter Inner Ring	d <sub>a</sub> min. [mm]	9.5
Abutment Diameter Outer Ring	Da max. [mm]	16.5
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.3

#### 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.