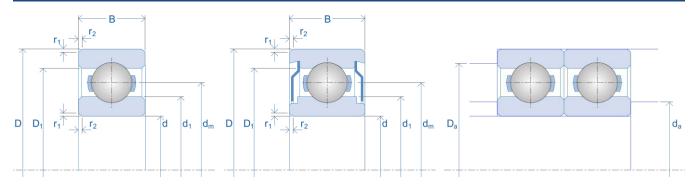


Data Sheet High Precision Ball Bearings





Part Number	HY 6204
Bearing Series	Radial
Hybrid (Si₃N₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	8
Bearing Weight	m [kg]	0.106

Bearing Load Ratings¹

Dynamic Radial Load Rating	C [N]	13,900
Static Radial Load Rating Steel Balls	C ₀ [N]	7,400
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	5,200

Bearing RPM Ratings²

Speed Value with Oil Lubrication	n _{oil} [1/min]	50,625
Speed Value with Grease Lubrication	n _{grease} [1/min]	40,500

Bearing Dimensions

Bore Diameter	d [mm]	20
Outer Diameter	D [mm]	47
Bearing Width	B [mm]	14
Pitch Circle	d _m [mm]	33.5
Ball Diameter	D _w [mm]	7.938
OD Inner Ring	d ₁ [mm]	28.5
ID Outer Ring	D ₁ [mm]	38.6
Chamfer	r _{1,2} [mm]	1.0

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	26.0
Abutment Diameter Outer Ring	D _a max. [mm]	41.0
Chamfer Associated Component	ra max. [mm]	1.0

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.