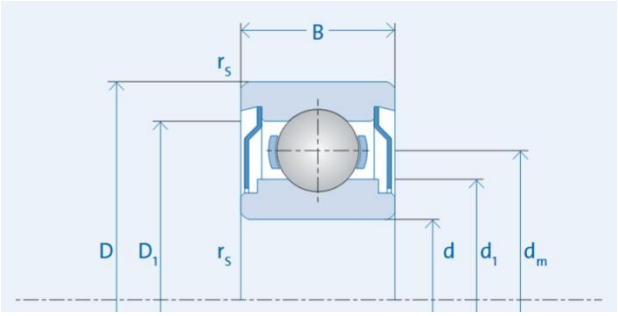
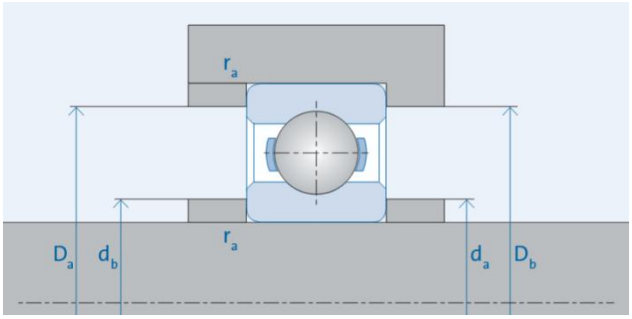
GMN BEARING USA

Data Sheet
High Precision Ball Bearings







Part Number	**6206**
Bearing Series	Radial
Ball Material	100 Cr 6 (SAE 52100)
Ring Material	100 Cr 6 (SAE 52100)

Geometrical Data

Number of Balls	Z [Qty.]	9
Bearing Weight	m [kg]	0.195

Bearing Load Ratings[1]

Dynamic Radial Load Rating	C_r [N]	20,000
Static Radial Load Rating Steel Balls	C_{0r} [N]	11,900
Fatigue Load Limit	C_{ur} [N]	618.0

Bearing RPM Ratings[2]

Speed Value with Oil Lubrication	n_{oil} [1/min]	24,725
Speed Value with Grease Lubrication	n_{grease} [1/min]	21,500

Bearing Dimensions

Bore Diameter	d [mm]	30
Outer Diameter	D [mm]	62
Bearing Width	B [mm]	16
Pitch Circle Diameter	d_m [mm]	46.0
Ball Diameter	D_w [mm]	9.525
OD Inner Ring	d_1 [mm]	40.4
ID Outer Ring	D_1 [mm]	52.1
Chamfer	r_s min. [mm]	1.0

Mating Part Dimensions

Abutment Diameter Inner Ring	d_a min. [mm]	35.8
Abutment Diameter Outer Ring	D_a max. [mm]	57.6
Chamfer Associated Component	r_a 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 Bearing USA engineers.
2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN Bearing USA engineers for speed ratings of different cages.

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