

Part Number	HY S 61920 C TA	
Bearing Size	61920	

Bearing Dimensions

Bore Diameter	d [mm]	100
Outer Diameter	D [mm]	140
Bearing Width	B [mm]	20
Pitch Circle	d _m [mm]	120.0
Ball Diameter	D _w [mm]	11.906
OD Inner Ring	d₁ [mm]	112.8
ID Outer Ring	D1 [mm]	127.2
ID Outer Ring (Open Side)	D ₂ [mm]	132.0
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	51,500
Static Radial Load Rating Steel Balls	C ₀ [N]	57,000
Static Radial Load Rating Si ₃ N ₄ balls	С _{0 НҮ} [N]	40,500

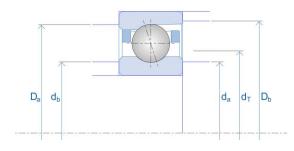
Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	17,500
Speed Value with Grease Lubrication	n _{grease} [1/min]	13,125

Notes:

1. Position of the oiling Nozzle (d_T) for bearings with TA cage/ TXM cage upon request

2. The stated load and speed values are given for a spring preloaded single bearing with oil/air or oil mist lubrication. If specific applications differ, please consult correction factors and/or GMN USA engineers.



Bearing Series	S
Hybrid (Si₃N₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	25
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.800

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	107.0
Abutment Diameter Outer Ring	Da max. [mm]	133.0
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.6

Bearing Preload Data

Light Pre-Load	Fv [N]	260
Light Axial Rigidity	C _{ax} [N/µm]	100
Medium Pre-Load	F _v [N]	790
Medium Axial Rigidity	C _{ax} [N/µm]	162
Heavy Pre-Load	F _v [N]	1,570
Heavy Axial Rigidity	C _{ax} [N/µm]	226
Minimum Spring Pre-Load	F _f [N]	1,320