

Part Number	HY SM 61916 C TA
Bearing Size	61916

Bearing Dimensions

Bore Diameter	d [mm]	80
Outer Diameter	D [mm]	110
Bearing Width	B [mm]	16
Pitch Circle	d _m [mm]	95.0
Ball Diameter	D _w [mm]	9.525
OD Inner Ring	d₁ [mm]	89.4
ID Outer Ring	D1 [mm]	100.8
ID Outer Ring (Open Side)	D ₂ [mm]	104.6
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.3

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	25,500
Static Radial Load Rating Steel Balls	C ₀ [N]	20,100
Static Radial Load Rating Si ₃ N ₄ balls	С _{0 НҮ} [N]	14,200

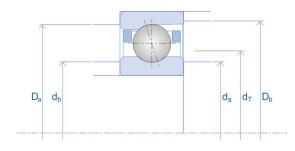
Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	26,250
Speed Value with Grease Lubrication	n _{grease} [1/min]	19,375

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	SM
Hybrid (Si ₃ N ₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	25
Contact Angle	α ₀ [°]	19
Bearing Weight	m [kg]	0.370

Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	86.0
Abutment Diameter Outer Ring	Da max. [mm]	104.0
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.3

Bearing Preload Data

Light Pre-Load	Fv [N]	130
Light Axial Rigidity	C _{ax} [N/µm]	88
Medium Pre-Load	F _v [N]	390
Medium Axial Rigidity	C _{ax} [N/µm]	133
Heavy Pre-Load	F _v [N]	780
Heavy Axial Rigidity	C _{ax} [N/µm]	175
Minimum Spring Pre-Load	F _f [N]	970