





Part Number	HY S 6016 C TA
Bearing Size	6016

Bearing Dimensions

Bore Diameter	d [mm]	80
Outer Diameter	D [mm]	125
Bearing Width	B [mm]	22
Pitch Circle	d _m [mm]	102.5
Ball Diameter	D _w [mm]	13.494
OD Inner Ring	d₁ [mm]	94.3
ID Outer Ring	D1 [mm]	110.7
ID Outer Ring (Open Side)	D ₂ [mm]	116.1
Chamfer	r _{1,2} [mm]	1.1
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	60,000
Static Radial Load Rating Steel Balls	C ₀ [N]	58,000
Static Radial Load Rating Si ₃ N ₄ balls	С _{0 НҮ} [N]	41,000

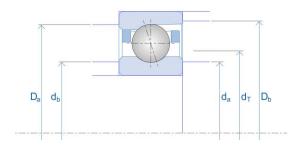
Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	20,625
Speed Value with Grease Lubrication	n _{grease} [1/min]	15,625

Notes:

1. Position of the oiling Nozzle $(d_{\rm T})$ 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 (Si ₃ N ₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	20
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.840

Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	88.0
Abutment Diameter Outer Ring	Da max. [mm]	117.0
Chamfer Associated Component	r _a max. [mm]	1.1
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.6

Bearing Preload Data

Light Pre-Load	Fv [N]	310
Light Axial Rigidity	C _{ax} [N/µm]	98
Medium Pre-Load	F _v [N]	920
Medium Axial Rigidity	C _{ax} [N/µm]	159
Heavy Pre-Load	F _v [N]	1,830
Heavy Axial Rigidity	C _{ax} [N/µm]	224
Minimum Spring Pre-Load	F _f [N]	1,540