

Part Number	HY SM 6017 C TA
Bearing Size	6017

## **Bearing Dimensions**

Bore Diameter	d [mm]	85
Outer Diameter	D [mm]	130
Bearing Width	B [mm]	22
Pitch Circle	d <sub>m</sub> [mm]	107.5
Ball Diameter	D <sub>w</sub> [mm]	13.494
OD Inner Ring	d₁ [mm]	99.3
ID Outer Ring	D₁ [mm]	115.7
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	121.1
Chamfer	r <sub>1,2</sub> [mm]	1.1
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.6

# **Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	44,000
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	32,500
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	22,900

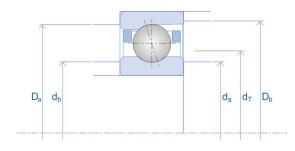
### **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	23,125
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	17,500

#### 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 <sub>3</sub> N <sub>4</sub> Balls)	Yes

#### **Geometrical Data**

Number of Balls	Z [Qty.]	21
Contact Angle	α₀ [°]	17
Bearing Weight	m [kg]	0.890

#### Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	93.0
Abutment Diameter Outer Ring	Da max. [mm]	122.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	1.1
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.6

## **Bearing Preload Data**

Light Pre-Load	Fv [N]	220
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	89
Medium Pre-Load	F <sub>v</sub> [N]	670
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	137
Heavy Pre-Load	F <sub>v</sub> [N]	1,340
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	182
Minimum Spring Pre-Load	F <sub>f</sub> [N]	1,500