





Part Number	S 61908 C TA
Bearing Size	61908

Bearing Dimensions

Bore Diameter	d [mm]	40
Outer Diameter	D [mm]	62
Bearing Width	B [mm]	12
Pitch Circle	d _m [mm]	51.0
Ball Diameter	D _w [mm]	6.35
OD Inner Ring	d₁ [mm]	46.8
ID Outer Ring	D₁ [mm]	55.2
ID Outer Ring (Open Side)	D ₂ [mm]	57.2
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]	14,900
Static Radial Load Rating Steel Balls	C ₀ [N]	12,700
Static Radial Load Rating Si ₃ N ₄ balls	С _{0 НҮ} [N]	9,000

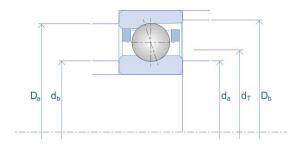
Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	33,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	24,500

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 (Si₃N₄ Balls)	No

Geometrical Data

Number of Balls	Z [Qty.]	19
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.109

Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	45.0
Abutment Diameter Outer Ring	Da max. [mm]	57.5
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.15

Bearing Preload Data

Light Pre-Load	Fv [N]	75
Light Axial Rigidity	C _{ax} [N/µm]	46
Medium Pre-Load	F _v [N]	230
Medium Axial Rigidity	C _{ax} [N/µm]	77
Heavy Pre-Load	F _v [N]	460
Heavy Axial Rigidity	C _{ax} [N/µm]	109
Minimum Spring Pre-Load	F _f [N]	380