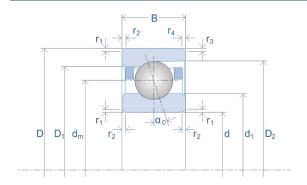


Data Sheet High Precision Ball Bearings



 D_{b}

 d_{T}



Part Number	S 61922 C TA
Bearing Size	61922

Bearing So



Bearing Dimensions

Bore Diameter	d [mm]	110
Outer Diameter	D [mm]	150
Bearing Width	B [mm]	20
Pitch Circle	d _m [mm]	130.0
Ball Diameter	D _w [mm]	11.906
OD Inner Ring	d ₁ [mm]	122.8
ID Outer Ring	D ₁ [mm]	137.2
ID Outer Ring (Open Side)	D ₂ [mm]	142.0
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Da

d

Number of Balls	Z [Qty.]	27
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.860

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	53,500
Static Radial Load Rating Steel Balls	C ₀ [N]	62,500
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	44,000

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	117.0
Abutment Diameter Outer Ring	D _a max. [mm]	143.0
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.6

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	13,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	9,800

Bearing Preload Data

Light Pre-Load	Fv [N]	270
Light Axial Rigidity	C _{ax} [N/µm]	106
Medium Pre-Load	F _v [N]	810
Medium Axial Rigidity	C _{ax} [N/µm]	170
Heavy Pre-Load	F _v [N]	1,620
Heavy Axial Rigidity	C _{ax} [N/µm]	238
Minimum Spring Pre-Load	F _f [N]	1,370

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.