



Part Number	S 61921 E TA
Bearing Size	61921

Bearing Series	S
Hybrid (Si ₃ N ₄ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	105
Outer Diameter	D [mm]	145
Bearing Width	B [mm]	20
Pitch Circle	d _m [mm]	125.0
Ball Diameter	D _w [mm]	11.906
OD Inner Ring	d ₁ [mm]	117.8
ID Outer Ring	D ₁ [mm]	132.2
ID Outer Ring (Open Side)	D ₂ [mm]	137.0
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	26
Contact Angle	α ₀ [°]	25
Bearing Weight	m [kg]	0.830

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	112.0
Abutment Diameter Outer Ring	D _a max. [mm]	138.0
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	49,500
Static Radial Load Rating Steel Balls	C ₀ [N]	56,500
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	40,000

Bearing Preload Data

Light Pre-Load	F _v [N]	420
Light Axial Rigidity	C _{ax} [N/μm]	248
Medium Pre-Load	F _v [N]	1,250
Medium Axial Rigidity	C _{ax} [N/μm]	375
Heavy Pre-Load	F _v [N]	2,510
Heavy Axial Rigidity	C _{ax} [N/μm]	495
Minimum Spring Pre-Load	F _r [N]	1,800

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	11,500
Speed Value with Grease Lubrication	n _{grease} [1/min]	8,600

Notes:

1. Position of the oiling Nozzle (d_r) 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.