



Part Number	KH 61901 C TA
Bearing Size	61901

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

Bearing Dimensions

Bore Diameter	d [mm]	12
Outer Diameter	D [mm]	24
Bearing Width	B [mm]	6
Pitch Circle	d _m [mm]	18.0
Ball Diameter	D _w [mm]	2.381
OD Inner Ring	d ₁ [mm]	15.4
OD Inner Ring (Open Side)	d ₂ [mm]	15.1
ID Outer Ring	D ₁ [mm]	19.6
ID Outer Ring (Open Side)	D ₂ [mm]	20.3
Chamfer	r _{1,2} [mm]	0.3
Chamfer (Open Side)	r _{3,4} [mm]	0.3

Geometrical Data

Number of Balls	Z [Qty.]	15
Contact Angle	α ₀ [°]	17
Bearing Weight	m [kg]	0.011

Mating Part Dimensions

Abutment Diameter Inner Ring	d _{a,b} min. [mm]	14.5
Abutment Diameter Outer Ring	D _{a,b} max. [mm]	21.5
Chamfer Associated Component	r _a max. [mm]	0.3
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.1

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	1,480
Static Radial Load Rating Steel Balls	C ₀ [N]	650
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	455

Bearing Preload Data

Light Pre-Load	F _v [N]	7
Light Axial Rigidity	C _{ax} [N/μm]	12
Medium Pre-Load	F _v [N]	22
Medium Axial Rigidity	C _{ax} [N/μm]	19
Heavy Pre-Load	F _v [N]	45
Heavy Axial Rigidity	C _{ax} [N/μm]	26
Minimum Spring Pre-Load	F _f [N]	55

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	120,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	90,000

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.