



Part Number	<b>KH 61907 C TA</b>
Bearing Size	61907

Bearing Series	KH
Hybrid (Si <sub>3</sub> N <sub>4</sub> Balls)	No

**Bearing Dimensions**

Bore Diameter	d [mm]	35
Outer Diameter	D [mm]	55
Bearing Width	B [mm]	10
Pitch Circle	d <sub>m</sub> [mm]	45.0
Ball Diameter	D <sub>w</sub> [mm]	3.969
OD Inner Ring	d <sub>1</sub> [mm]	41.4
OD Inner Ring (Open Side)	d <sub>2</sub> [mm]	40.8
ID Outer Ring	D <sub>1</sub> [mm]	48.1
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	49.4
Chamfer	r <sub>1,2</sub> [mm]	0.6
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.3

**Geometrical Data**

Number of Balls	Z [Qty.]	26
Contact Angle	α <sub>0</sub> [°]	17
Bearing Weight	m [kg]	0.075

**Mating Part Dimensions**

Abutment Diameter Inner Ring	d <sub>a,b</sub> min. [mm]	40.0
Abutment Diameter Outer Ring	D <sub>a,b</sub> max. [mm]	50.5
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.6
Chamfer Associated Component (Open Side)	r <sub>b</sub> max. [mm]	0.15

**Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	5,050
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	3,300
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	C <sub>0 HY</sub> [N]	2,320

**Bearing Preload Data**

Light Pre-Load	F <sub>v</sub> [N]	25
Light Axial Rigidity	C <sub>ax</sub> [N/μm]	32
Medium Pre-Load	F <sub>v</sub> [N]	80
Medium Axial Rigidity	C <sub>ax</sub> [N/μm]	50
Heavy Pre-Load	F <sub>v</sub> [N]	150
Heavy Axial Rigidity	C <sub>ax</sub> [N/μm]	64
Minimum Spring Pre-Load	F <sub>f</sub> [N]	185

**Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	47,000
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	35,000

**Notes:**

1. Position of the oiling Nozzle (d<sub>T</sub>) 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.