



Part Number	HY KH 6000 E TA
Bearing Size	6000

Bearing Series	KH
Hybrid (Si ₃ N ₄ Balls)	Yes

Bearing Dimensions

Bore Diameter	d [mm]	10
Outer Diameter	D [mm]	26
Bearing Width	B [mm]	8
Pitch Circle	d _m [mm]	18.0
Ball Diameter	D _w [mm]	3.175
OD Inner Ring	d ₁ [mm]	14.7
OD Inner Ring (Open Side)	d ₂ [mm]	14.2
ID Outer Ring	D ₁ [mm]	20.5
ID Outer Ring (Open Side)	D ₂ [mm]	21.3
Chamfer	r _{1,2} [mm]	0.3
Chamfer (Open Side)	r _{3,4} [mm]	0.3

Geometrical Data

Number of Balls	Z [Qty.]	11
Contact Angle	α ₀ [°]	25
Bearing Weight	m [kg]	0.018

Mating Part Dimensions

Abutment Diameter Inner Ring	d _{a,b} min. [mm]	12.5
Abutment Diameter Outer Ring	D _{a,b} max. [mm]	23.0
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]	1,950
Static Radial Load Rating Steel Balls	C ₀ [N]	750
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	530

Bearing Preload Data

Light Pre-Load	F _v [N]	16
Light Axial Rigidity	C _{ax} [N/μm]	26
Medium Pre-Load	F _v [N]	50
Medium Axial Rigidity	C _{ax} [N/μm]	39
Heavy Pre-Load	F _v [N]	100
Heavy Axial Rigidity	C _{ax} [N/μm]	51
Minimum Spring Pre-Load	F _f [N]	95

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	137,500
Speed Value with Grease Lubrication	n _{grease} [1/min]	102,500

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.