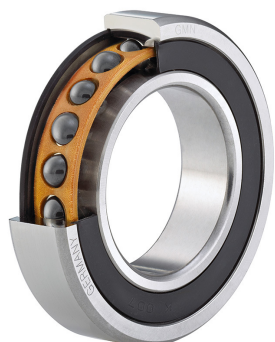


Spindle ball bearing HY KH 6010 E TXM P4+

09.05.2024



Components

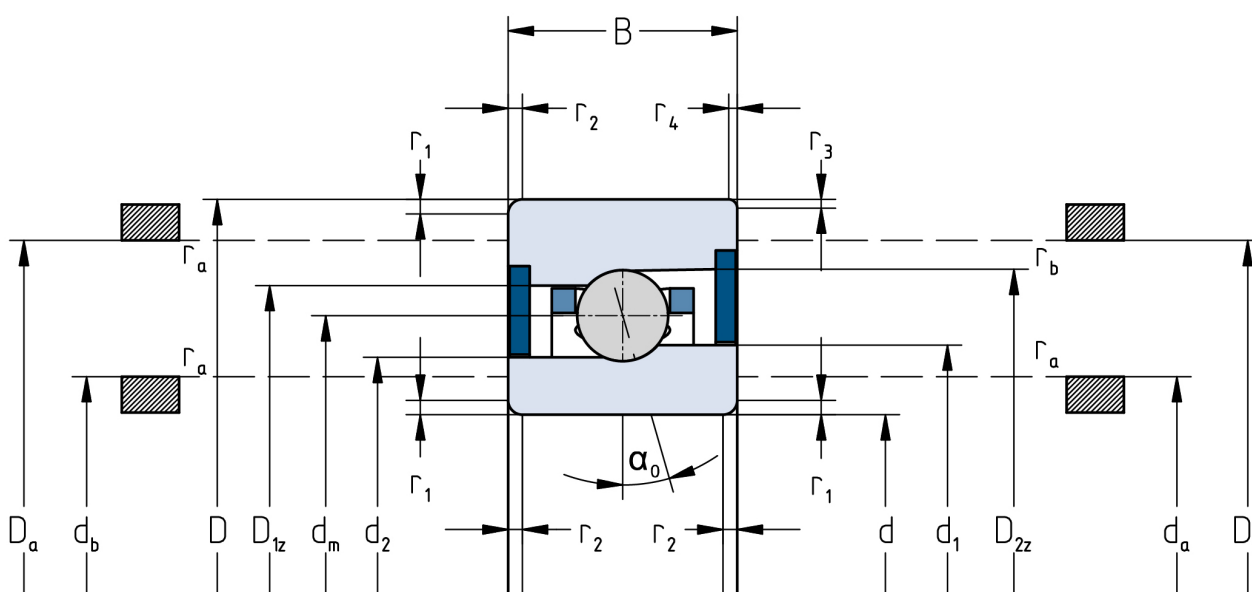
Bearing designation:	HY KH 6010 E
	TXM
Bearing design:	KH
Series / size:	6010
Ball material:	Ceramic
Cage:	TXM
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	50 x 80 x 16 mm

Load data

Static load capacity	C_{Or} : 7350 N
Dynamic load capacity	C_r : 11100 N
Fatigue load limit	C_U : 279 N
Speed limit	n_{grease} : 27750 1/min
Speed limit	n_{oil} : 37000 1/min
Light preload	L : 90 N
Axial rigidity	C_{ax} : 111 N/ μ m
Medium preload	M : 280 N
Axial rigidity	C_{ax} : 166 N/ μ m
Heavy preload	S : 560 N
Axial rigidity	C_{ax} : 214 N/ μ m
Spring preload	F_f : 530 N (for n_{max})

Geometrical Data

Bore diameter	d:	50 mm	Oiling nozzle position	d _r :	61.9 mm
Outer diameter	D:	80 mm	Pitch circle diameter	d _m :	63.8 mm
Width of single bearing	B:	16 mm	Inner diameter of outer ring	D ₁ :	68 mm
Ball diameter	D _w :	6.35 mm	Undercut of associated component	r _{a max} :	1 mm
Number of balls	Z:	25	Undercut of associated component (open side)	r _{b max} :	0.6 mm
Chamfer (min)	r _{1,2 min} :	1 mm	Abutment diameter inner ring	d _{a,b min} :	54.6 mm
Chamfer (min), open side	r _{3,4 min} :	0.6 mm	Abutment diameter outer ring	D _{a,b max} :	76 mm
Outer diameter of inner ring	d ₁ :	59.7 mm	Inner diameter of outer ring (open side)	D ₂ :	70.3 mm
Outer diameter of inner ring (open side)	d ₂ :	58 mm	Bearing weight	m:	0.255 kg
			Contact angle	Alpha 0:	25°



The given speed limits apply to individual bearings with spring preload. Correction factors must be considered for all properties which deviate from this.