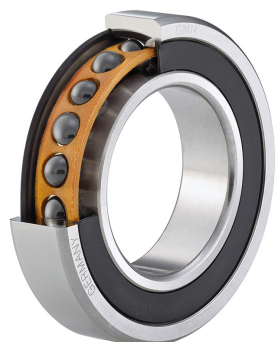


Spindle ball bearing HY KH 61912 C TA P4+

09.05.2024



Components

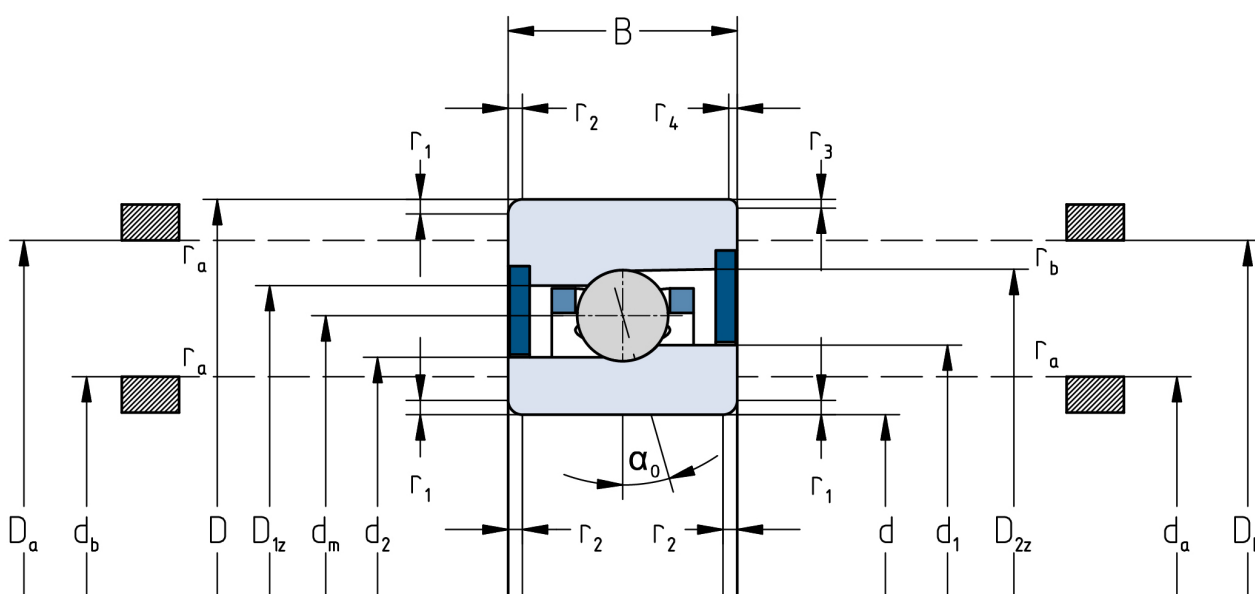
Bearing designation:	HY KH 61912 C TA
Bearing design:	KH
Series / size:	61912
Ball material:	Ceramic
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	60 x 85 x 13 mm

Load data

Static load capacity	C_{0r} : 7800 N
Dynamic load capacity	C_r : 10300 N
Fatigue load limit	C_U : 294 N
Speed limit	n_{grease} : 27750 1/min
Speed limit	n_{oil} : 37000 1/min
Light preload	L: 50 N
Axial rigidity	C_{ax} : 57 N/ μ m
Medium preload	M: 160 N
Axial rigidity	C_{ax} : 88 N/ μ m
Heavy preload	S: 310 N
Axial rigidity	C_{ax} : 115 N/ μ m
Spring preload	Ff: 370 N (for n_{max})

Geometrical Data

Bore diameter	d: 60 mm	Oiling nozzle position	d_T : 70 mm
Outer diameter	D: 85 mm	Pitch circle diameter	d_m : 71.7 mm
Width of single bearing	B: 13 mm	Inner diameter of outer ring	D_1 : 75.8 mm
Ball diameter	D_w : 5.556 mm	Undercut of associated component	$r_{a \max}$: 1 mm
Number of balls	Z: 32	Undercut of associated component (open side)	$r_{b \max}$: 0.3 mm
Chamfer (min)	$r_{1,2 \min}$: 1 mm	Abutment diameter inner ring	$d_{a,b \min}$: 64.6 mm
Chamfer (min), open side	$r_{3,4 \min}$: 0.3 mm	Abutment diameter outer ring	$D_{a,b \max}$: 80.8 mm
Outer diameter of inner ring	d_1 : 68.1 mm	Inner diameter of outer ring (open side)	D_2 : 77.4 mm
Outer diameter of inner ring (open side)	d_2 : 66.8 mm	Bearing weight	m: 0.185 kg
		Contact angle	Alpha 0: 17°



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