

Spindle ball bearing KH 6000 C TA P4+

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Components

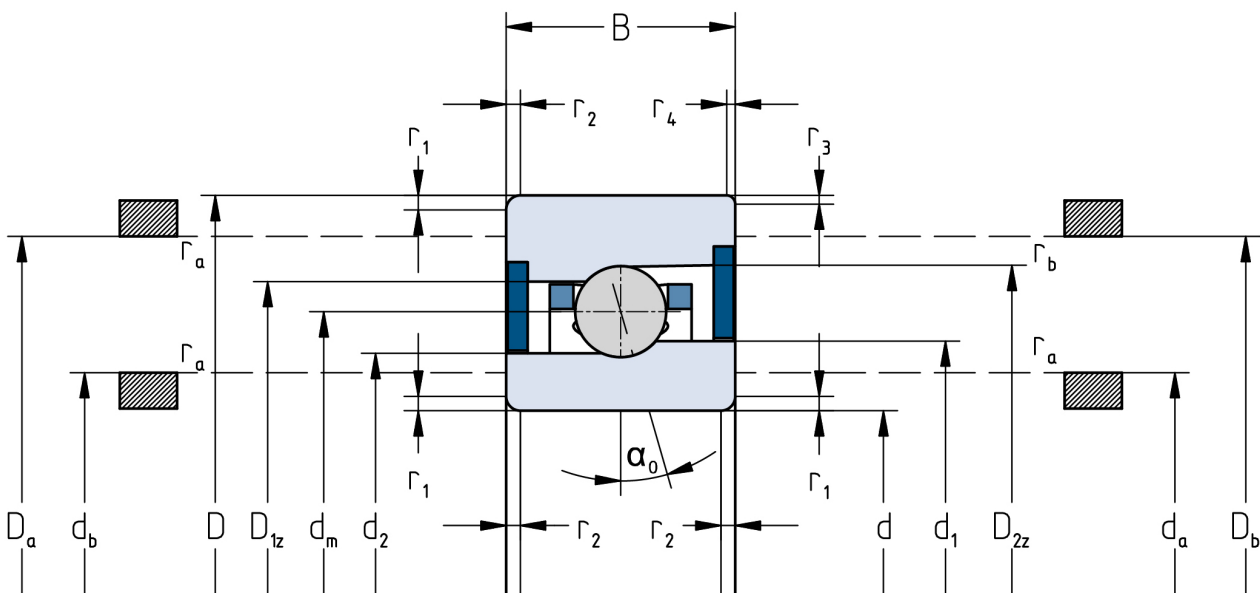
Bearing designation:	KH 6000 C TA
Bearing design:	KH
Series / size:	6000
Ball material:	Steel 100Cr6
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	10 x 26 x 8 mm

Load data

Static load capacity	C_{0r} : 790 N
Dynamic load capacity	C_r : 2020 N
Fatigue load limit	C_U : 41 N
Speed limit	n_{grease} : 93750 1/min
Speed limit	n_{oil} : 125000 1/min
Light preload	L: 10 N
Axial rigidity	C_{ax} : 12 N/ μ m
Medium preload	M: 30 N
Axial rigidity	C_{ax} : 19 N/ μ m
Heavy preload	S: 60 N
Axial rigidity	C_{ax} : 26 N/ μ m
Spring preload	Ff: 50 N (for n_{max})

Geometrical Data

Bore diameter	d: 10 mm	Oiling nozzle position	d_7 : 15.9 mm
Outer diameter	D: 26 mm	Pitch circle diameter	d_m : 17 mm
Width of single bearing	B: 8 mm	Inner diameter of outer ring	D_1 : 19.5 mm
Ball diameter	D_w : 3.175 mm	Undercut of associated component	$r_{a max}$: 0.3 mm
Number of balls	Z: 11	Undercut of associated component (open side)	$r_{b max}$: 0.3 mm
Chamfer (min)	$r_{1,2 min}$: 0.3 mm	Abutment diameter inner ring	$d_{a,b min}$: 11.8 mm
Chamfer (min), open side	$r_{3,4 min}$: 0.3 mm	Abutment diameter outer ring	$D_{a,b max}$: 24.7 mm
Outer diameter of inner ring	d_1 : 14.7 mm	Inner diameter of outer ring (open side)	D_2 : 20.3 mm
Outer diameter of inner ring (open side)	d_2 : 14.2 mm	Bearing weight	m: 0.02 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.