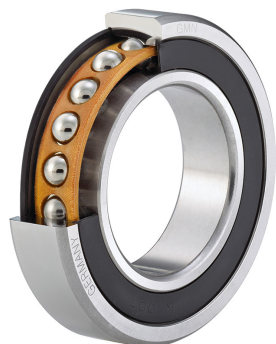


Spindle ball bearing KH 61913 E TA P4+

09.05.2024



Components

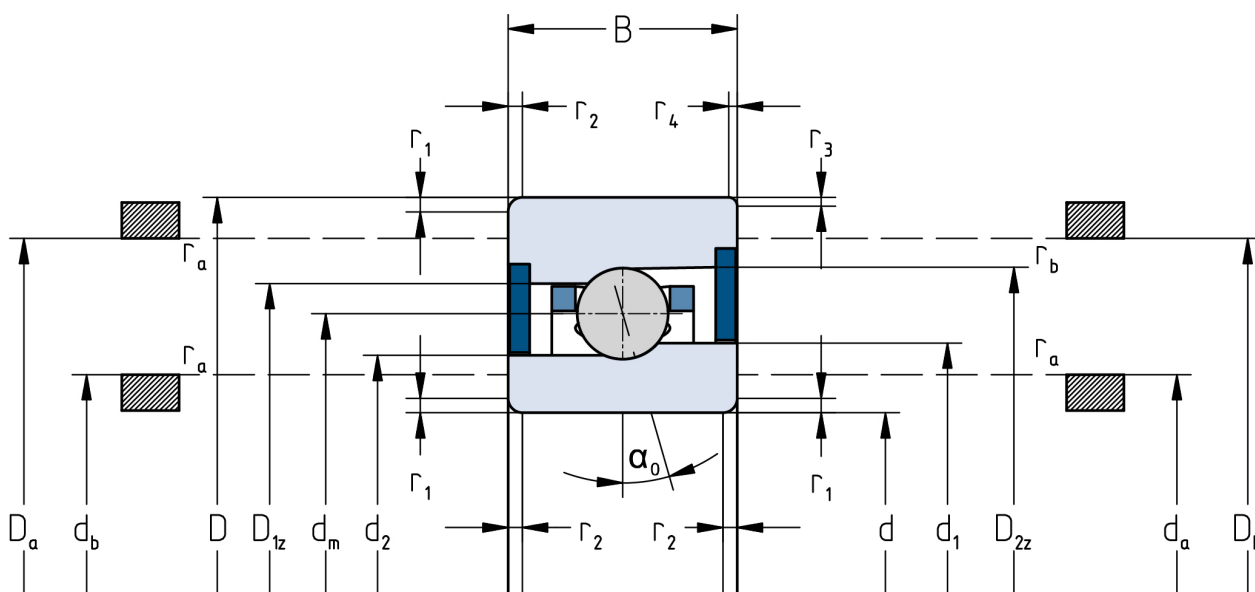
Bearing designation:	KH 61913 E TA
Bearing design:	KH
Series / size:	61913
Ball material:	Steel 100Cr6
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	65 x 90 x 13 mm

Load data

Static load capacity	C_{0r} : 8300 N
Dynamic load capacity	C_r : 10100 N
Fatigue load limit	C_U : 431 N
Speed limit	n_{grease} : 18750 1/min
Speed limit	n_{oil} : 25000 1/min
Light preload	L: 80 N
Axial rigidity	C_{ax} : 113 N/μm
Medium preload	M: 250 N
Axial rigidity	C_{ax} : 169 N/μm
Heavy preload	S: 500 N
Axial rigidity	C_{ax} : 218 N/μm
Spring preload	Ff: 820 N (for n_{max})

Geometrical Data

Bore diameter	d: 65 mm	Oiling nozzle position	d_T : 75 mm
Outer diameter	D: 90 mm	Pitch circle diameter	d_m : 76.7 mm
Width of single bearing	B: 13 mm	Inner diameter of outer ring	D_1 : 80.8 mm
Ball diameter	D_w : 5.556 mm	Undercut of associated component	$r_{a max}$: 1 mm
Number of balls	Z: 34	Undercut of associated component (open side)	$r_{b max}$: 0.3 mm
Chamfer (min)	$r_{1,2 min}$: 1 mm	Abutment diameter inner ring	$d_{a,b min}$: 69.5 mm
Chamfer (min), open side	$r_{3,4 min}$: 0.3 mm	Abutment diameter outer ring	$D_{a,b max}$: 85.8 mm
Outer diameter of inner ring	d_1 : 73.1 mm	Inner diameter of outer ring (open side)	D_2 : 82.4 mm
Outer diameter of inner ring (open side)	d_2 : 71.8 mm	Bearing weight	m: 0.215 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.