

Spindle ball bearing KH 6006 E TA P4+

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Components

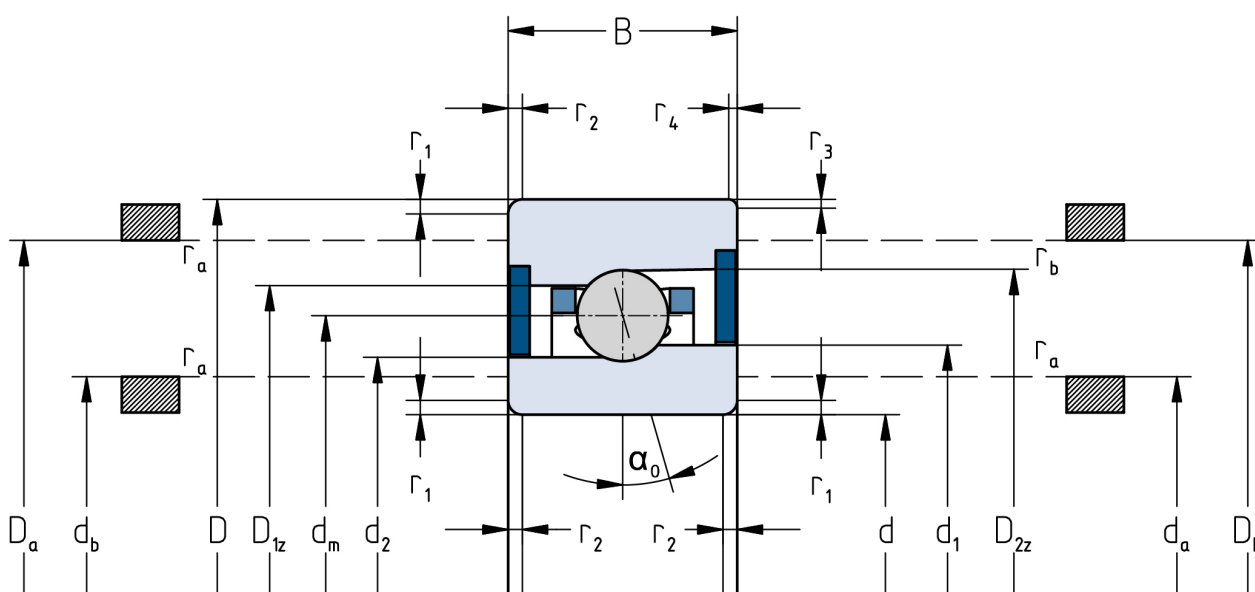
Bearing designation:	KH 6006 E TA
Bearing design:	KH
Series / size:	6006
Ball material:	Steel 100Cr6
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	30 x 55 x 13 mm

Load data

Static load capacity	C_{0r} : 4550 N
Dynamic load capacity	C_r : 7800 N
Fatigue load limit	C_U : 236 N
Speed limit	n_{grease} : 34500 1/min
Speed limit	n_{oil} : 46000 1/min
Light preload	L: 65 N
Axial rigidity	C_{ax} : 74 N/ μ m
Medium preload	M: 200 N
Axial rigidity	C_{ax} : 111 N/ μ m
Heavy preload	S: 390 N
Axial rigidity	C_{ax} : 143 N/ μ m
Spring preload	Ff: 450 N (for n_{max})

Geometrical Data

Bore diameter	d: 30 mm	Oiling nozzle position	d_T : 40.1 mm
Outer diameter	D: 55 mm	Pitch circle diameter	d_m : 41.7 mm
Width of single bearing	B: 13 mm	Inner diameter of outer ring	D_1 : 45.8 mm
Ball diameter	D_w : 5.556 mm	Undercut of associated component	$r_{a \max}$: 1 mm
Number of balls	Z: 20	Undercut of associated component (open side)	$r_{b \max}$: 0.6 mm
Chamfer (min)	$r_{1,2 \min}$: 1 mm	Abutment diameter inner ring	$d_{a,b \min}$: 34.5 mm
Chamfer (min), open side	$r_{3,4 \min}$: 0.6 mm	Abutment diameter outer ring	$D_{a,b \max}$: 51.2 mm
Outer diameter of inner ring	d_1 : 38.1 mm	Inner diameter of outer ring (open side)	D_2 : 47.4 mm
Outer diameter of inner ring (open side)	d_2 : 36.8 mm	Bearing weight	m: 0.12 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.