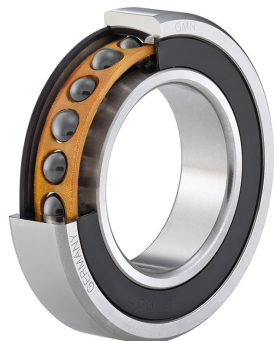


Spindle ball bearing HY KH 61900 E TA P4+

08.05.2024



Components

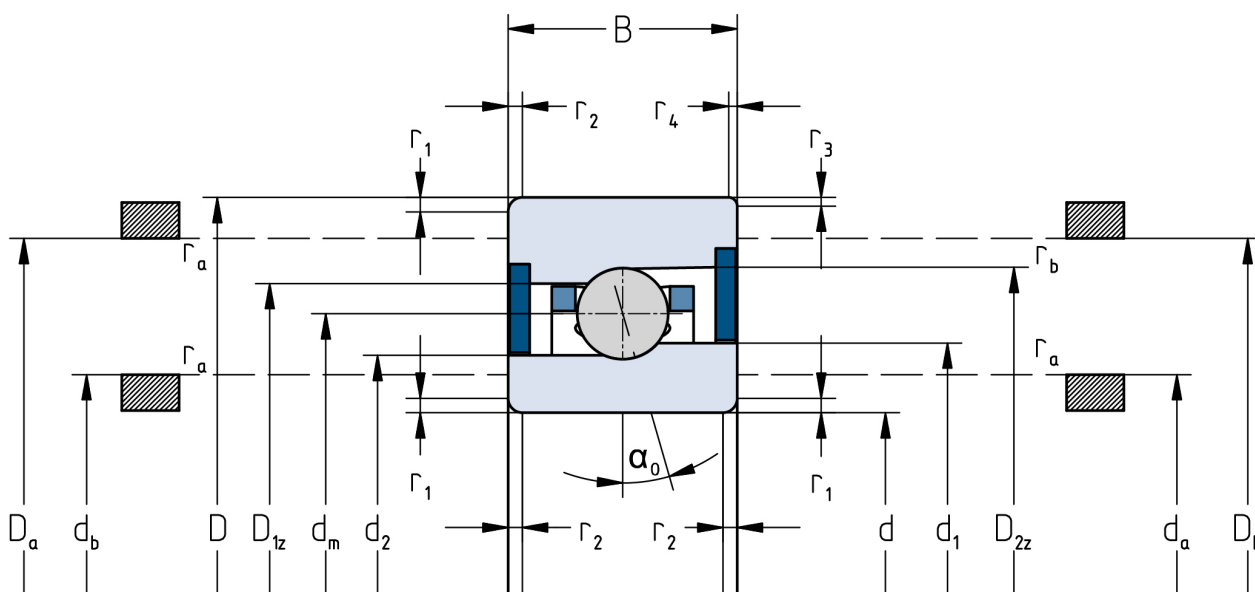
Bearing designation:	HY KH 61900 E TA
Bearing design:	KH
Series / size:	61900
Ball material:	Ceramic
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	10 x 22 x 6 mm

Load data

Static load capacity	C_{0r} : 550 N
Dynamic load capacity	C_r : 1360 N
Fatigue load limit	C_U : 21 N
Speed limit	n_{grease} : 116250 1/min
Speed limit	n_{oil} : 155000 1/min
Light preload	L: 11 N
Axial rigidity	C_{ax} : 27 N/ μ m
Medium preload	M: 35 N
Axial rigidity	C_{ax} : 41 N/ μ m
Heavy preload	S: 70 N
Axial rigidity	C_{ax} : 54 N/ μ m
Spring preload	Ff: 40 N (for n_{max})

Geometrical Data

Bore diameter	d: 10 mm	Oiling nozzle position	d_T : 14.5 mm
Outer diameter	D: 22 mm	Pitch circle diameter	d_m : 15.4 mm
Width of single bearing	B: 6 mm	Inner diameter of outer ring	D_1 : 17.2 mm
Ball diameter	D_w : 2.381 mm	Undercut of associated component	$r_{a \max}$: 0.3 mm
Number of balls	Z: 14	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	$d_{a,b \min}$: 11.6 mm
Chamfer (min), open side	$r_{3,4 \min}$: 0.3 mm	Abutment diameter outer ring	$D_{a,b \max}$: 20.7 mm
Outer diameter of inner ring	d_1 : 13.6 mm	Inner diameter of outer ring (open side)	D_2 : 17.9 mm
Outer diameter of inner ring (open side)	d_2 : 13.3 mm	Bearing weight	m: 0.01 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.