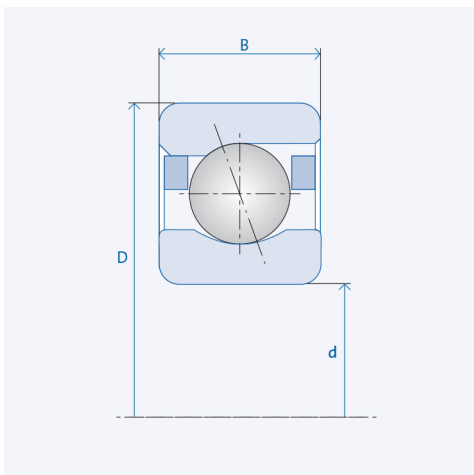


Spindle ball bearings (HY)* SM 61920 C



Precision class P4 / ABEC7

Components

Bearing designation:	(HY)* SM 61920 C
Bearing design:	SM
Series / size:	61920
Ball material:	Steel 100Cr6
Ball material HY :	Ceramic Si3N4
Cage:	TA (TXM available upon request)
Precision:	P4 (HG, UP, P2 upon request)
Main dimensions [d x D x B]:	100 x 140 x 20 mm

Technical data (Standard bearings)

Static load capacity C_0 :	31000
Dynamic load capacity C:	37500
Speed limit n_{Fett} :	12375
Speed limit n_{Oj} :	16500

Technical data (Hybrid bearings)*

Static load capacity C_{0HY} :	21700
Dynamic load capacity C_{HY} :	37500
Speed limit n_{Fett} :	15468.75
Speed limit n_{Oj} :	20625

Pre-tension

Light (L):	190 N
Axial rigidity (C_{ax}):	107 N/ μ m
Medium (M):	570 N
Axial rigidity (C_{ax}):	160 N/ μ m
Heavy (S):	1150 N
Axial rigidity (C_{ax}):	211 N/ μ m
Spring preload (Ff):	1430 N

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

* All ball bearings are also available as hybrid ball bearings (HY).