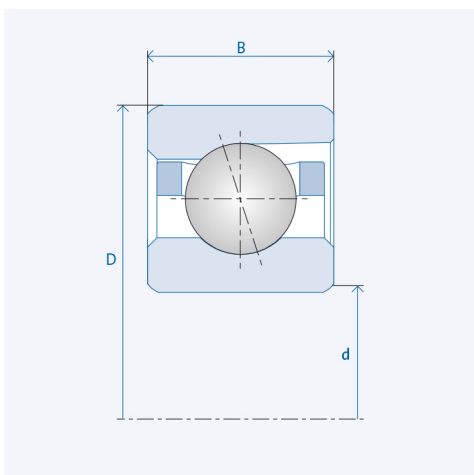


Spindle ball bearings (HY)* S 6002 E



Precision class P4 / ABEC7

Components

Bearing designation:	(HY)* S 6002 E
Bearing design:	S
Series / size:	6002
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]:	15 x 32 x 9 mm

Technical data (Standard bearings)

Static load capacity C_0 :	3600
Dynamic load capacity C:	6350
Speed limit n_{Fett} :	46500
Speed limit n_{Oj} :	62000

Technical data (Hybrid bearings)*

Static load capacity C_{0HY} :	2550
Dynamic load capacity C_{HY} :	6350
Speed limit n_{Fett} :	58125
Speed limit n_{Oj} :	77500

Pre-tension

Light (L):	55 N
Axial rigidity (C_{ax}):	54 N/ μ m
Medium (M):	160 N
Axial rigidity (C_{ax}):	82 N/ μ m
Heavy (S):	320 N
Axial rigidity (C_{ax}):	110 N/ μ m
Spring preload (Ff):	235 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).