

# Spindle ball bearings (HY)\* S 6000 C



## Precision class P4 / ABEC7

### Components

Bearing designation:	(HY)* S 6000 C
Bearing design:	S
Series / size:	6000
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]:	10 x 26 x 8 mm

### Technical data (Standard bearings)

Static load capacity $C_0$ :	2600
Dynamic load capacity C:	5450
Speed limit $n_{Fett}$ :	71250
Speed limit $n_{Oj}$ :	95000

### Technical data (Hybrid bearings)\*

Static load capacity $C_{0HY}$ :	1830
Dynamic load capacity $C_{HY}$ :	5450
Speed limit $n_{Fett}$ :	89062.5
Speed limit $n_{Oj}$ :	118750

### Pre-tension

Light (L):	25 N
Axial rigidity ( $C_{ax}$ ):	17 N/ $\mu$ m
Medium (M):	80 N
Axial rigidity ( $C_{ax}$ ):	30 N/ $\mu$ m
Heavy (S):	160 N
Axial rigidity ( $C_{ax}$ ):	43 N/ $\mu$ m
Spring preload (Ff):	140 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).