

# Spindle ball bearings (HY)\* S 61900 C



## Precision class P4 / ABEC7

### Components

Bearing designation:	(HY)* S 61900 C
Bearing design:	S
Series / size:	61900
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 22 x 6 mm

### Technical data (Standard bearings)

Static load capacity $C_0$ :	1360
Dynamic load capacity C:	2800
Speed limit $n_{Fett}$ :	82500
Speed limit $n_{Oj}$ :	110000

### Technical data (Hybrid bearings)\*

Static load capacity $C_{0HY}$ :	960
Dynamic load capacity $C_{HY}$ :	2800
Speed limit $n_{Fett}$ :	103125
Speed limit $n_{Oj}$ :	137500

### Pre-tension

Light (L):	12 N
Axial rigidity ( $C_{ax}$ ):	13 N/ $\mu$ m
Medium (M):	40 N
Axial rigidity ( $C_{ax}$ ):	21 N/ $\mu$ m
Heavy (S):	75 N
Axial rigidity ( $C_{ax}$ ):	29 N/ $\mu$ m
Spring preload (Ff):	75 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).