

# Spindle ball bearings (HY)\* S 61907 C



## Precision class P4 / ABEC7

### Components

Bearing designation:	(HY)* S 61907 C
Bearing design:	S
Series / size:	61907
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]:	35 x 55 x 10 mm

### Technical data (Standard bearings)

Static load capacity $C_0$ :	8700
Dynamic load capacity C:	10900
Speed limit $n_{Fett}$ :	28500
Speed limit $n_{Oj}$ :	38000

### Technical data (Hybrid bearings)\*

Static load capacity $C_{0HY}$ :	6100
Dynamic load capacity $C_{HY}$ :	10900
Speed limit $n_{Fett}$ :	35625
Speed limit $n_{Oj}$ :	47500

### Pre-tension

Light (L):	55 N
Axial rigidity ( $C_{ax}$ ):	37 N/ $\mu$ m
Medium (M):	165 N
Axial rigidity ( $C_{ax}$ ):	61 N/ $\mu$ m
Heavy (S):	330 N
Axial rigidity ( $C_{ax}$ ):	86 N/ $\mu$ m
Spring preload (Ff):	280 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).