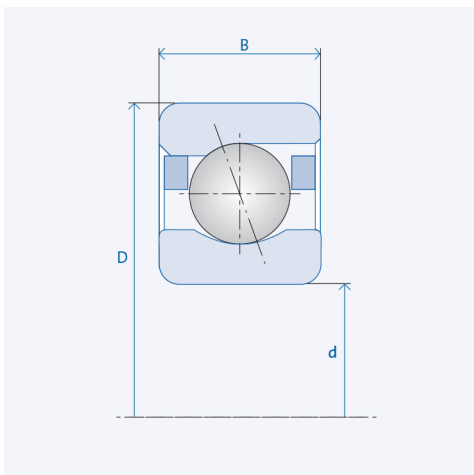


# Spindle ball bearings (HY)\* SM 605 C



## Precision class P4 / ABEC7

### Components

Bearing designation:	(HY)* SM 605 C
Bearing design:	SM
Series / size:	605
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]:	5 x 14 x 5 mm

### Technical data (Standard bearings)

Static load capacity $C_0$ :	310
Dynamic load capacity C:	990
Speed limit $n_{Fett}$ :	172500
Speed limit $n_{Oj}$ :	230000

### Technical data (Hybrid bearings)\*

Static load capacity $C_{0HY}$ :	216
Dynamic load capacity $C_{HY}$ :	990
Speed limit $n_{Fett}$ :	215625
Speed limit $n_{Oj}$ :	287500

### Pre-tension

Light (L):	5 N
Axial rigidity ( $C_{ax}$ ):	5 N/ $\mu$ m
Medium (M):	14 N
Axial rigidity ( $C_{ax}$ ):	9 N/ $\mu$ m
Heavy (S):	28 N
Axial rigidity ( $C_{ax}$ ):	13 N/ $\mu$ m
Spring preload (Ff):	30 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).