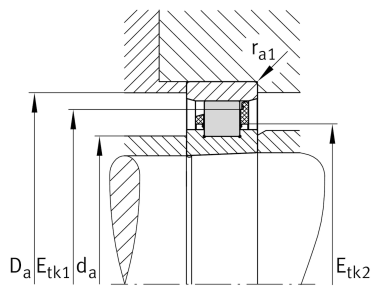
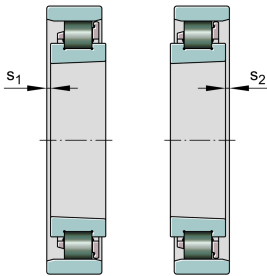


**FAG****HCN1011-D-K-PVPA1-SP-XL** [↗](#)

Cylindrical roller bearing

Super precision cylindrical roller bearings  
 HCN10..-D-K-PVPA1-SP-XL, Non-locating  
 bearing, with tapered bore, taper 1:12,  
 separable, with cage, with ceramic rollers

## Technical information

**Your current product variant**

Cage	PVPA1	PEEK-cage
Tolerance class	SP	Tolerance class SP
Bore type	K	Tapered, taper 1:12
Change mark	D	Internal Variant D
Number of rows	1	Single-row design

**Main Dimensions & Performance Data**

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
$C_r$	44.500 N	Basic dynamic load rating, radial
$C_{0r}$	41.500 N	Basic static load rating, radial
$C_{ur}$	5.900 N	Fatigue load limit, radial
$n_G$ Grease	22.000 1/min	Limiting speed for grease lubrication
$n_G$ Oil	26.000 1/min	Limiting speed for oil lubrication
$\approx m$	346 g	Weight



### Mounting dimensions

$d_a$	65 mm	Diameter shaft shoulder
	h12	Diameter shaft shoulder tolerance
$D_a$	82,2 mm	Diameter of housing shoulder
	H12	Diameter of housing shoulder tolerance
$E_{tk 1 nom}$	78,5 mm	Injection pitch diameter min
$E_{tk 2 nom}$	69,4 mm	Injection pitch diameter nom
$r_{a1 max}$	1 mm	Maximum recess radius



### Dimensions

$r_{1 min}$	1 mm	Minimum chamfer dimension
$s_1$	1,6 mm	Axial displacement
$s_2$	3,4 mm	Axial displacement
$E$	81 mm	Raceway diameter outer ring

### Temperature range

$T_{min}$	-30 °C	Operating temperature min.
$T_{max}$	150 °C	Operating temperature max.

### Characteristics

	Radial load
	Grease Lubrication
	Oil Lubrication
	Not sealed