

Spindle bearings HC7010-E-T-P4S (Series HC70..-E)

adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls,
restricted tolerances

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue selection system (https://www.schaeffler.de/content.schaeffler.de/en/news_media/index.jsp) or by telephone on +49 (91 32) 82 - 28 97.

d	50 mm
D	80 mm
B	16 mm
a	23,2 mm
Da	74 mm Tolerance: H12
da	56 mm Tolerance: h12
Etk1 max	63 mm
Etk1 min	59,6 mm
Etk max	63 mm
Etk min	61,7 mm

r1 min	1 mm	
ra1 max	0,3 mm	
ra max	1 mm	
rmin	1 mm	
α	25 °	Contact angle
m	0,269 kg	≈ Mass
Cr	12100 N	Basic dynamic load rating, radial
C0r	7400 N	Basic static load rating, radial
Cur	600 N	Fatigue limit load, radial
nG Fett	28000 1/min	Limiting speed for grease lubrication The limiting speeds are based on elastically preloaded single bearings.
nG Öl	43000 1/min	Limiting speed for minimal quantity oil lubrication The limiting speeds are based on elastically preloaded single bearings.
Fv L	50 N	Preload force
Fv M	149 N	Preload force
Fv H	298 N	Preload force
KaE L	143 N	Lift-off force
KaE M	435 N	Lift-off force

$K_{aE\ H}$	883 N	Lift-off force
$Ca\ L$	90 N/ μm	Axial rigidity
$Ca\ M$	133 N/ μm	Axial rigidity
$Ca\ H$	172 N/ μm	Axial rigidity



