

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HCB7007-CDLR-T-P4S**



Designation	HCB7007-CDLR-T-P4S
Main dimensions	
d	35
D	62
B	14
Basic load ratings	
Dyn. Cr(KN)	19.3
Stat. Cor(kN)	9.2
Fatigue limit load	
Cur N	700
Limiting speeds	
nG grease min	34000
nG oil min	53000
Dimensions	
r min.	1
r1 min.	1
BN	2.8
SN	8
SB	1.4
Contact angle	
a °	15
Mounting dimensions	
da h12	41
Da H12	56
ra max.	1
ra1 max.	0.3
Preload force FV	
L N	46
M N	175
H N	372
Lift-off force KaE	
L N	138
M N	558
H N	1255
Axial rigidity ca	
L N/μm	32
M N/μm	55.5
H N/μm	78.9
Mass	
m = kg	0.134

Spindle bearing

Spindle bearings HCB70/72/718/719..-EDLR, adjusted, matched pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, restricted tolerances, for direct oil feed via outer ring, with inserted O rings