

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HCB7004-CDLR-T-P4S**



Designation	HCB7004-CDLR-T-P4S
Main dimensions	
d	20
D	42
B	12
Basic load ratings	
Dyn. Cr(KN)	10.3
Stat. Cor(kN)	4.05
Fatigue limit load	
Cur N	310
Limiting speeds	
nG grease min	53000
nG oil min	80000
Dimensions	
r min.	0.6
r1 min.	0.6
BN	2.2
SN	6.6
SB	1.4
Contact angle	
a °	15
Mounting dimensions	
da h12	25
Da H12	37
ra max.	0.6
ra1 max.	0.3
Preload force FV	
L N	24
M N	94
H N	202
Lift-off force KaE	
L N	72
M N	297
H N	673
Axial rigidity ca	
L N/μm	18.7
M N/μm	32.7
H N/μm	46.6
Mass	
m = kg	0.06

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