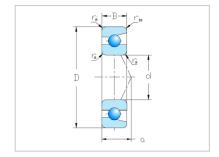
Single Row Angular Contact Ball Bearings

7000 Series-7001DT,7001DF,7001DB,7001C







Bearing Numbers		
Single row	7001C	
DB	7001DB	
DF	7001DF	
DT	7001DT	
Principal dimensions(mm)		
d	12	
D	28	
В	8	
r(min)	0.3	
r1(min)	0.15	
Basic load ratings(N)		
Cr	5800	
Cor	2900	
Basic load ratings(kgf)		
Cr	590	
Cor	296	
Value		
fo	13.5	
Limiting Speed (rpm)		
Grease	40000	
Oil	56000	
Distance of action point		
a	6.7	
Abutment and fillet dim		
da(min)	14.5	
Da(max)	25.5	
ra(max)	0.3	
Weight		
(kg)	0.024	
Basic load ratings(duplex bearing) (N)		
Cr	9400	
Cor	5800	
Basic load ratings(duplex bearing) (kgf)		
Cr	960	
Cor	590	
Limiting Speed(duplex I		
Grease	32000	
Oil	45000	
Distance of action point		
back-to-back	13.4	
arrangement		
face-to-face	2.6	
arrangement		
Installation dimensions(duplex bearing)		

db(min)	-
Db(max)	26.8
rb(max)	0.15

Angular contact ball bearings have inner and outer ring raceways that are displaced relative to each other in the direction of the bearing axis. This means that these bearings are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads.

The axial load carrying capacity of angular contact ball bearings increases as the contact angle increases. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the combined load is transmitted from one raceway to another, and a line perpendicular to the bearing axis

The most commonly used designs are:

single row angular contact ball bearings

double row angular contact ball bearings

four-point contact ball bearings

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