

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
B	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
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Limiting Speed (rpm)

Grease	40000
Oil	56000

Distance of action point(mm)

a	6.7
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Abutment and fillet dimensions

da(min)	14.5
Da(max)	25.5
ra(max)	0.3

Weight

(kg)	0.024
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Basic load ratings(duplex bearing) (N)

Cr	9400
Cor	5800

Basic load ratings(duplex bearing) (kgf)

Cr	960
Cor	590

Limiting Speed(duplex bearing) (rpm)

Grease	32000
Oil	45000

Distance of action point (duplex bearing)(a0)

back-to-back	13.4
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arrangement

face-to-face	2.6
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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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