

Single Row Angular Contact Ball Bearings

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



Bearing Numbers

Single row	7000C
DB	7000DB
DF	7000DF
DT	7000DT

Principal dimensions(mm)

d	10
D	26
B	8
r(min)	0.3
r1(min)	0.15

Basic load ratings(N)

Cr	5300
Cor	2490

Basic load ratings(kgf)

Cr	540
Cor	254

Value

fo	12.6
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Limiting Speed (rpm)

Grease	45000
Oil	63000

Distance of action point(mm)

a	6.4
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Abutment and fillet dimensions

da(min)	12.5
Da(max)	23.5
ra(max)	0.3

Weight

(kg)	0.021
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Basic load ratings(duplex bearing) (N)

Cr	8650
Cor	5000

Basic load ratings(duplex bearing) (kgf)

Cr	880
Cor	510

Limiting Speed(duplex bearing) (rpm)

Grease	36000
Oil	50000

Distance of action point (duplex bearing)(a0)

back-to-back	12.8
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arrangement

face-to-face	3.2
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arrangement

Installation dimensions(duplex bearing)

db(min)	ago
Db(max)	24.8
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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