

## Single Row Angular Contact Ball Bearings

7000 Series-7000DT,7000DF,7000DB,7000A



## Bearing Numbers

Single row	<b>7000A</b>
DB	<b>7000DB</b>
DF	<b>7000DF</b>
DT	<b>7000DT</b>

## Principal dimensions(mm)

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

## Basic load ratings(N)

Cr	5350
Cor	2600

## Basic load ratings(kgf)

Cr	550
Cor	266

## Value

fo	13.2
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## Limiting Speed (rpm)

Grease	32000
Oil	43000

## Distance of action point(mm)

a	9.2
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## Abutment and fillet dimensions

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

## Weight

(kg)	0.019
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## Basic load ratings(duplex bearing) (N)

Cr	8750
Cor	5200

## Basic load ratings(duplex bearing) (kgf)

Cr	890
Cor	530

## Limiting Speed(duplex bearing) (rpm)

Grease	24000
Oil	34000

## Distance of action point (duplex bearing)(a0)

back-to-back	18.4
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## arrangement

face-to-face	2.4
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## arrangement

## Installation dimensions(duplex bearing)

db(min)	11.2
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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