

## Single Row Angular Contact Ball Bearings

7000 Series-7005DT,7005DF,7005DB,7005A



## Bearing Numbers

Single row	<b>7005A</b>
DB	<b>7005DB</b>
DF	<b>7005DF</b>
DT	<b>7005DT</b>

## Principal dimensions(mm)

d	25
D	47
B	12
r(min)	0.6
r1(min)	0.3

## Basic load ratings(N)

Cr	11300
Cor	7400

## Basic load ratings(kgf)

Cr	1150
Cor	750

## Value

fo	15.1
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## Limiting Speed (rpm)

Grease	16000
Oil	22000

## Distance of action point(mm)

a	16.4
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## Abutment and fillet dimensions

da(min)	30
Da(max)	42
ra(max)	0.6

## Weight

(kg)	0.079
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## Basic load ratings(duplex bearing) (N)

Cr	18300
Cor	14800

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

Cr	1870
Cor	1510

## Limiting Speed(duplex bearing) (rpm)

Grease	13000
Oil	17000

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

back-to-back	32.8
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## arrangement

face-to-face	8.8
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## arrangement

## Installation dimensions(duplex bearing)

db(min)	27.5
Db(max)	44.5
rb(max)	0.3

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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