

## Single Row Angular Contact Ball Bearings

7000 Series-7004DT,7004DF,7004DB,7004A



## Bearing Numbers

Single row	<b>7004A</b>
DB	<b>7004DB</b>
DF	<b>7004DF</b>
DT	<b>7004DT</b>

## Principal dimensions(mm)

d	20
D	42
B	12
r(min)	0.6
r1(min)	0.3

## Basic load ratings(N)

Cr	10800
Cor	6600

## Basic load ratings(kgf)

Cr	1110
Cor	670

## Value

fo	14.5
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## Limiting Speed (rpm)

Grease	18000
Oil	24000

## Distance of action point(mm)

a	14.9
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## Abutment and fillet dimensions

da(min)	25
Da(max)	37
ra(max)	0.6

## Weight

(kg)	0.068
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## Basic load ratings(duplex bearing) (N)

Cr	17600
Cor	13200

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

Cr	1800
Cor	1340

## Limiting Speed(duplex bearing) (rpm)

Grease	15000
Oil	20000

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

back-to-back	29.9
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## arrangement

face-to-face	5.9
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## arrangement

## Installation dimensions(duplex bearing)

db(min)	22.5
Db(max)	39.5
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

Luoyang Auto Bearing Co.,Ltd-Tel:0598-3607100-Email:moore@lyautobearing.com-http://www.auto-bearing.com