

Single Row Angular Contact Ball Bearings

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



Bearing Numbers

Single row	7004C
DB	7004DB
DF	7004DF
DT	7004DT

Principal dimensions(mm)

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

Basic load ratings(N)

Cr	11100
Cor	6550

Basic load ratings(kgf)

Cr	1130
Cor	665

Value

fo	14
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Limiting Speed (rpm)

Grease	26000
Oil	36000

Distance of action point(mm)

a	10.1
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Abutment and fillet dimensions

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

Weight

(kg)	0.076
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Basic load ratings(duplex bearing) (N)

Cr	18000
Cor	13100

Basic load ratings(duplex bearing) (kgf)

Cr	1840
Cor	1330

Limiting Speed(duplex bearing) (rpm)

Grease	20000
Oil	30000

Distance of action point (duplex bearing)(a0)

back-to-back	20.3
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arrangement

face-to-face	3.7
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arrangement

Installation dimensions(duplex bearing)

db(min)	-
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

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