

Single Row Angular Contact Ball Bearings

7200 Series-7200DT,7200DF,7200DB,7200B



Bearing Numbers

Single row	7200B
DB	7200DB
DF	7200DF
DT	7200DT

Principal dimensions(mm)

d	10
D	30
B	9
r(min)	0.6
r1(min)	0.3

Basic load ratings(N)

Cr	5000
Cor	2500

Basic load ratings(kgf)

Cr	510
Cor	255

Value

fo	14.4
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Limiting Speed (rpm)

Grease	20000
Oil	28000

Distance of action point(mm)

a	12.9
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Abutment and fillet dimensions

da(min)	15
Da(max)	25
ra(max)	0.6

Weight

(kg)	0.032
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Basic load ratings(duplex bearing) (N)

Cr	8100
Cor	5000

Basic load ratings(duplex bearing) (kgf)

Cr	825
Cor	510

Limiting Speed(duplex bearing) (rpm)

Grease	16000
Oil	22000

Distance of action point (duplex bearing)(a0)

back-to-back	25.8
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arrangement

face-to-face	7.8
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arrangement

Installation dimensions(duplex bearing)

db(min)	12.5
Db(max)	27.5
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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