

Single Row Angular Contact Ball Bearings

7200 Series-7205DT,7205DF,7205DB,7205C



Bearing Numbers

Single row	7205C
DB	7205DB
DF	7205DF
DT	7205DT

Principal dimensions(mm)

d	25
D	52
B	15
r(min)	1
r1(min)	0.6

Basic load ratings(N)

Cr	16600
Cor	10200

Basic load ratings(kgf)

Cr	1690
Cor	1040

Value

fo	14
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Limiting Speed (rpm)

Grease	22000
Oil	28000

Distance of action point(mm)

a	12.7
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Abutment and fillet dimensions

da(min)	31
Da(max)	46
ra(max)	1

Weight

(kg)	0.143
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Basic load ratings(duplex bearing) (N)

Cr	27000
Cor	20400

Basic load ratings(duplex bearing) (kgf)

Cr	2750
Cor	2080

Limiting Speed(duplex bearing) (rpm)

Grease	17000
Oil	24000

Distance of action point (duplex bearing)(a0)

back-to-back	25.3
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arrangement

face-to-face	4.7
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arrangement

Installation dimensions(duplex bearing)

db(min)	ago
Db(max)	47
rb(max)	0.6

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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