

Single Row Angular Contact Ball Bearings

7300 Series-7305DT,7305DF,7305DB,7305B



Bearing Numbers

Single row	7305B
DB	7305DB
DF	7305DF
DT	7305DT

Principal dimensions(mm)

d	25
D	62
B	17
r(min)	1.1
r1(min)	0.6

Basic load ratings(N)

Cr	24400
Cor	14600

Basic load ratings(kgf)

Cr	2490
Cor	1490

Value

fo	14.1
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Limiting Speed (rpm)

Grease	9000
Oil	13000

Distance of action point(mm)

a	26.7
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Abutment and fillet dimensions

da(min)	32
Da(max)	55
ra(max)	1

Weight

(kg)	0.241
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Basic load ratings(duplex bearing) (N)

Cr	39500
Cor	29300

Basic load ratings(duplex bearing) (kgf)

Cr	4050
Cor	2980

Limiting Speed(duplex bearing) (rpm)

Grease	7500
Oil	10000

Distance of action point (duplex bearing)(a0)

back-to-back	53.5
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arrangement

face-to-face	19.5
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arrangement

Installation dimensions(duplex bearing)

db(min)	30
Db(max)	57
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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