

Single Row Angular Contact Ball Bearings

7000 Series-7007DT,7007DF,7007DB,7007C



Bearing Numbers

Single row	7007C
DB	7007DB
DF	7007DF
DT	7007DT

Principal dimensions(mm)

d	35
D	62
B	14
r(min)	1
r1(min)	0.6

Basic load ratings(N)

Cr	19100
Cor	13700

Basic load ratings(kgf)

Cr	1950
Cor	1390

Value

fo	15
Limiting Speed (rpm)	
Grease	17000
Oil	22000

Distance of action point(mm)

a	13.5
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Abutment and fillet dimensions

da(min)	41
Da(max)	56
ra(max)	1

Weight

(kg)	0.173
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Basic load ratings(duplex bearing) (N)

Cr	31000
Cor	27300

Basic load ratings(duplex bearing) (kgf)

Cr	3150
Cor	2790

Limiting Speed(duplex bearing) (rpm)

Grease	13000
Oil	19000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	27
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face-to-face arrangement	1
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Installation dimensions(duplex bearing)

db(min)	-
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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