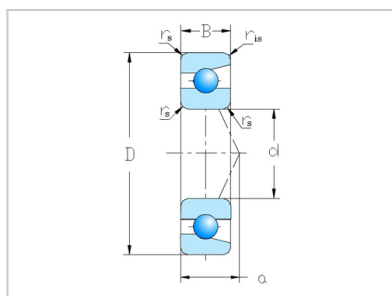


Single Row Angular Contact Ball Bearings

7000 Series-7005DT,7005DF,7005DB,7005A



Bearing Numbers

Single row	7005A
DB	7005DB
DF	7005DF
DT	7005DT

Principal dimensions(mm)

d	25
D	47
B	12
r(min)	0.6
r1(min)	0.3

Basic load ratings(N)

Cr	11300
Cor	7400

Basic load ratings(kgf)

Cr	1150
Cor	750

Value

fo	15.1
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Limiting Speed (rpm)

Grease	16000
Oil	22000

Distance of action point(mm)

a	16.4
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Abutment and fillet dimensions

da(min)	30
Da(max)	42
ra(max)	0.6

Weight

(kg)	0.079
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Basic load ratings(duplex bearing) (N)

Cr	18300
Cor	14800

Basic load ratings(duplex bearing) (kgf)

Cr	1870
Cor	1510

Limiting Speed(duplex bearing) (rpm)

Grease	13000
Oil	17000

Distance of action point (duplex bearing)(a0)

back-to-back	32.8
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arrangement

face-to-face	8.8
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arrangement

Installation dimensions(duplex bearing)

db(min)	27.5
Db(max)	44.5
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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