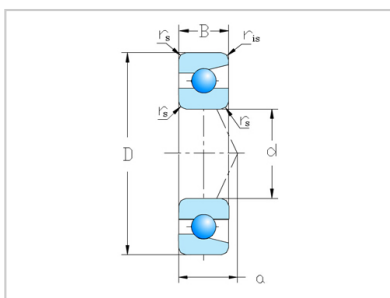


Single Row Angular Contact Ball Bearings

7300 Series-7307DT,7307DF,7307DB,7307B



Bearing Numbers

Single row	7307B
DB	7307DB
DF	7307DF
DT	7307DT

Principal dimensions(mm)

d	35
D	80
B	21
r(min)	1.5
r1(min)	1

Basic load ratings(N)

Cr	36500
Cor	24200

Basic load ratings(kgf)

Cr	3750
Cor	2460

Value

fo	14.7
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Limiting Speed (rpm)

Grease	7100
Oil	9500

Distance of action point(mm)

a	34.6
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Abutment and fillet dimensions

da(min)	44
Da(max)	71
ra(max)	1.5

Weight

(kg)	0.474
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Basic load ratings(duplex bearing) (N)

Cr	59500
Cor	48500

Basic load ratings(duplex bearing) (kgf)

Cr	6100
Cor	4950

Limiting Speed(duplex bearing) (rpm)

Grease	5600
Oil	7500

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	69.2
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face-to-face arrangement	27.2
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Installation dimensions(duplex bearing)

db(min)	41
Db(max)	74
rb(max)	1

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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