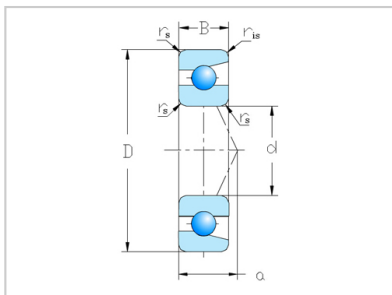


Single Row Angular Contact Ball Bearings

7300 Series-7304DT,7304DF,7304DB,7304A



Bearing Numbers

Single row	<b>7304A</b>
DB	<b>7304DB</b>
DF	<b>7304DF</b>
DT	<b>7304DT</b>

Principal dimensions(mm)

d	20
D	52
B	15
r(min)	1.1
r1(min)	0.6

Basic load ratings(N)

Cr	18700
Cor	10400

Basic load ratings(kgf)

Cr	1910
Cor	1060

Value

fo	13.2
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Limiting Speed (rpm)

Grease	13000
Oil	17000

Distance of action point(mm)

a	17.9
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Abutment and fillet dimensions

da(min)	27
Da(max)	45
ra(max)	1

Weight

(kg)	0.146
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Basic load ratings(duplex bearing) (N)

Cr	30500
Cor	20800

Basic load ratings(duplex bearing) (kgf)

Cr	3100
Cor	2130

Limiting Speed(duplex bearing) (rpm)

Grease	10000
Oil	13000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	35.8
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face-to-face arrangement	5.8
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Installation dimensions(duplex bearing)

db(min)	25
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

Luoyang Auto Bearing Co.,Ltd-Tel:0598-3607100-Email:moore@lyautobearing.com-http://www.auto-bearing.com