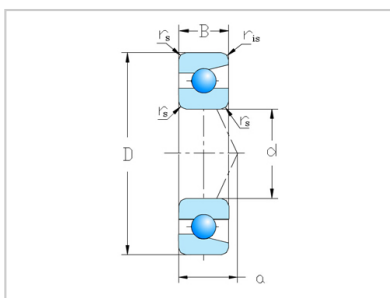


Single Row Angular Contact Ball Bearings

7300 Series-7301DT,7301DF,7301DB,7301B



Bearing Numbers

Single row	<b>7301B</b>
DB	<b>7301DB</b>
DF	<b>7301DF</b>
DT	<b>7301DT</b>

Principal dimensions(mm)

d	12
D	37
B	12
r(min)	<b>1</b>
r1(min)	0.6

Basic load ratings(N)

Cr	8850
Cor	4200

Basic load ratings(kgf)

Cr	900
Cor	425

Value

f <sub>o</sub>	13.4
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Limiting Speed (rpm)

Grease	16000
Oil	22000

Distance of action point(mm)

a	16.3
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Abutment and fillet dimensions

da(min)	18
Da(max)	31
ra(max)	<b>1</b>

Weight

(kg)	0.061
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Basic load ratings(duplex bearing) (N)

Cr	14400
Cor	8400

Basic load ratings(duplex bearing) (kgf)

Cr	1460
Cor	855

Limiting Speed(duplex bearing) (rpm)

Grease	13000
Oil	18000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	32.6
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face-to-face arrangement	8.6
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Installation dimensions(duplex bearing)

db(min)	17
Db(max)	32
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