

Single Row Angular Contact Ball Bearings

7900 Series-7904DT,7904DF,7904DB,7904A5



Bearing Numbers

Single row	7904A5
DB	7904DB
DF	7904DF
DT	7904DT

Principal dimensions(mm)

d	20
D	37
B	9
r(min)	0.3
r1(min)	0.15

Basic load ratings(N)

Cr	6600
Cor	4050

Basic load ratings(kgf)

Cr	675
Cor	410

Value

f ₀	15.2
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Limiting Speed (rpm)

Grease	24000
Oil	32000

Distance of action point(mm)

a	11.1
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Abutment and fillet dimensions

d _a (min)	22.5
D _a (max)	34.5
r _a (max)	0.3

Weight

(kg)	0.036
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Basic load ratings(duplex bearing) (N)

Cr	10700
Cor	8100

Basic load ratings(duplex bearing) (kgf)

Cr	1090
Cor	825

Limiting Speed(duplex bearing) (rpm)

Grease	19000
Oil	26000

Distance of action point (duplex bearing)(a₀)

back-to-back	22.3
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arrangement

face-to-face	4.3
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arrangement

Installation dimensions(duplex bearing)

db(min)	-
Db(max)	35.8
rb(max)	0.15

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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