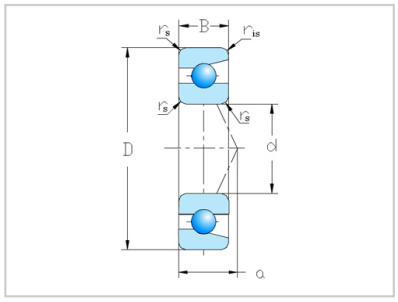
Single Row Angular Contact Ball Bearings

7900 Series-7900DT,7900DF,7900DB,7900C

AUTO BEARING



Bearing Numbers	
Single row	**7900C**
DB	**7900DB**
DF	**7900DF**
DT	**7900DT**
Principal dimensions(mm)	
d	10
D	22
B	6
r(min)	0.3
r1(min)	0.15
Basic load ratings(N)	
Cr	3000
Cor	1520
Basic load ratings(kgf)	
Cr	305
Cor	155
Value	
fo	14.1
Limiting Speed (rpm)	
Grease	48000
Oil	63000
Distance of action point(mm)	
a	5.1
Abutment and fillet dimensions	
da(min)	12.5
Da(max)	19.5
ra(max)	0.3
Weight	
(kg)	0.009
Basic load ratings(duplex bearing) (N)	
Cr	4900
Cor	3050
Basic load ratings(duplex bearing) (kgf)	
Cr	500
Cor	310
Limiting Speed(duplex bearing) (rpm)	
Grease	38000
Oil	53000
Distance of action point (duplex bearing)(a0)	
back-to-back arrangement	10.3
face-to-face arrangement	1.7
Installation dimensions(duplex bearing)	

db(min)	-
Db(max)	20.8
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