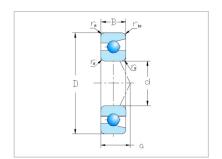
Single Row Angular Contact Ball Bearings

7000 Series-7005DT,7005DF,7005DB,7005A







Bearing Numbers Single row 7005A DB 7005DF DT 7005DT Principal dimensions(mm) 4 d 25 D 47 B 12 r(min) 0.6 r1(min) 0.3 Basic load ratings(N) Cr 11300 Cor 7400 Basic load ratings(kgf) Cr 1150 Cor 750 Value fo 15.1 Limiting Speed (rpm) Grease 16000 Oil 22000 Distance of action point(mm) a 16.4 Abutment and fillet dimensions da(min) 30 Da(max) 42 ra(max) 0.6	
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Cr 1150 Cor 750 Value 15.1 Limiting Speed (rpm) 16000 Oil 22000 Distance of action point(mm) 16.4 Abutment and fillet dimensions 42 Da(max) 42	
Cor 750 Value fo 15.1 Limiting Speed (rpm) Grease 16000 Oil 22000 Distance of action point(mm) a 16.4 Abutment and fillet dimensions da(min) 30 Da(max) 42	
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Distance of action point(mm) a 16.4 Abutment and fillet dimensions da(min) 30 Da(max) 42	
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Abutment and fillet dimensions da(min) 30 Da(max) 42	
da(min) 30 Da(max) 42	
Da(max) 42	
ra(max) 0.6	
Weight	
(kg) 0.079	
Basic load ratings(duplex bearing) (N)	
Cr 18300	
Cor 14800	
Basic load ratings(duplex bearing) (kgf)	
Cr 1870	
Cor 1510	
Limiting Speed(duplex bearing) (rpm)	
Grease 13000	
Oil 17000	
Distance of action point (duplex bearing)(a0)	
back-to-back 32.8	
arrangement	
face-to-face 8.8	
arrangement	
Installation dimensions(duplex bearing)	

Download PDF Of Dimension and Parameters

db(min)	27.5
Db(max)	44.5
rb(max)	0.3

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