

Single Row Angular Contact Ball Bearings

7000 Series angular contact ball bearings-7003DT,7003DF,7003DB,7003C



Bearing Numbers

Single row	7003C
DB	7003DB
DF	7003DF
DT	7003DT

Dimensiones principales (mm)

D	17
D	35
B	10
r (min)	0.3
r1(min)	0.15

Basic load ratings(N)

Cr	6600
Cor	3800

Clasificaciones de carga básica (kgf)

Cr	675
Cor	390

Valor

fo	14.5
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Velocidad límite (rpm)

Grasa	32000
Petróleo	43000



Distance of action point(mm)



a	8.5
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Abutment and fillet dimensions

da (min)	19.5
Da (máx.)	32.5
ra (máximo)	0.3

Peso

(kg)	0.044
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Basic load ratings(duplex bearing) (N)

Cr	10700
Cor	7600

Basic load ratings(duplex bearing) (kgf)

Cr	1100
Cor	775

Limiting Speed(duplex bearing) (rpm)

Grasa	26000
Petróleo	34000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	17
face-to-face arrangement	3

Installation dimensions(duplex bearing)

db (min)	sesenta y cinco
Db(max)	33.8
rb (máximo)	0.15

GQZ bearing wholesale high quality 7000 Series Single Row Angular Contact Ball Bearings

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.

Model:7000 series

Bore (Inner) Diameter: 10 mm

Outer Diameter: 26 mm

Width (Thickness): 16mm;

The 7000 series bearings contain models 7000CTA-2RZ/P5 single, 7001CTA-2RZ/P5 single, 7002CTA-2RZ/P5

single, 7003CTA-2RZ/P5 single, 7004CTA-2RZ/P5 single, 7005CTA-2RZ/P5 single, 7000CTA-2RZ/P4 single,

7001CTA-2RZ/P4 single, 7002CTA-2RZ/P4 single, 7003CTA-2RZ/P4 single, 7004CTA-2RZ/P4 single,

7005CTA-2RZ/P4 single. These models cover a wide range of specifications and configurations, including

single use and paired use, as well as different accuracy levels (P4 and P5) for a variety of application

scenarios. Models 7006CTA-2RZ/P4 paired and 7007CTA-2RZ/P4 paired are also available, providing

more options to meet different needs. These bearing types include angular contact ball bearings, which

are able to withstand radial and axial loads and can also operate at higher speeds, making them one of

the commonly used bearing types in mechanical systems.

