

Single Row Angular Contact Ball Bearings

7000 Series angular contact ball bearings-7005DT,7005DF,7005DB,7005A 

Bearing Numbers

Single row	7005A
DB	7005DB
DF	7005DF
DT	7005DT

Dimensiones principales (mm)

D	25
D	47
B	12
r (min)	0.6
r1(min)	0.3

Basic load ratings(N)

Cr	11300
Cor	7400

Clasificaciones de carga básica (kgf)

Cr	1150
Cor	750

Valor

fo	15.1
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Velocidad límite (rpm)

Grasa	16000
Petróleo	22000



Distance of action point(mm)



a	16.4
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Abutment and fillet dimensions

da (min)	30
Da (máx.)	42
ra (máximo)	0.6

Peso

(kg)	0.079
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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)

Grasa	13000
Petróleo	17000

Distance of action point (duplex bearing)(a0)

back-to-back arrangement	32.8
face-to-face arrangement	8.8

Installation dimensions(duplex bearing)

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

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.

