Single Row Angular Contact Ball Bearings

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Understanding Angular Contact Ball Bearings Single Row

AMIGO's Single Row Angular Contact Ball Bearings are high quality and have high-speed applications at top levels of precision. Both radial and axial load-carrying capabilities would enable these bearings to be employed even in severe conditions like automobiles, aerospace, and industrial equipment. One benefit of selecting AMIGO is that the single-row angular contact ball bearings can be superseded by those of other top brands like SKF, FAG, and NSK. The Company; AMIGO, manufactures bearings of the highest quality, which are fully interchangeable with the bearings manufactured by the best manufacturers in the industry.

Single Row Angular Contact Ball Bearings Catalogue

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Features and benefits

- High load restraints lifting capacity: The lower shoulder of the bearing is constructed so that numerous balls can be housed in it, leading to a rather high load-carrying capability.
- Excellent running capabilities: This design allows for quick increases and decreases in speed, which helps improve the device's running abilities.

Temperature Limits

The permissible operating temperature for angular contact ball bearings can be limited by:

- Dimensional stability of the bearing rings and balls
- Cage
- Seals

Applications

- Automotive Industry: Used in car wheel hubs, transmissions, and steering systems to handle both radial and axial loads, ensuring smooth operation.
- Aerospace Industry: Integral in aircraft engine components and landing gear systems where high precision and durability are essential.

- Easy mounting of fit-all bearings: These bearings can be fitted without adjusting the internal clearance/preload.

- Lubricant

The bearings are heat stabilized up to at least 150 °C (300 °F).

- Industrial Machinery: Employed in machine tool spindles, robotics, and automation systems to handle combined loads with high accuracy.

Single Row Angular Contact Ball Bearing Size Chart

Designation	Principal dimensions			Bearing Dimensions Chart Pdf
	d[mm]	D[mm]	B[mm]	
7202b bearing	15	35	11	Download
7309 bearing	45	100	25	Download
7310 bearing	50	110	27	Download
7322b bearing	110	240	50	Download
7211	55	100	21	Download
7314	70	150	35	Download
7222	110	200	38	Download
7317	85	180	41	Download
7014C	70	110	20	Download
7028	140	210	33	Download

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Customize Bearings To Meet Your Specific Needs

Looking for bearings tailored to your unique specifications? Our customization service ensures that each bearing is designed and manufactured to meet your exact requirements, providing the perfect solution for your application. Click the "Enquire Now" button to discuss your needs with our experts and get started on your custom bearing solution today.

Enquire Now

Single Row Angular Contact Ball Bearings - Designs and Variants

The standard assortment of single row angular contact ball bearings includes:

Bearings in the 72 B(E) and 73 B(E) series with 40° contact angle

sealed bearings:

- **in series 72 B(E) (15 ≤ d ≤ 55 mm)**
- **in series 73 B(E) (12 ≤ d ≤ 50 mm)**
- **bearings in the 72 AC series with 25° contact angle (15 ≤ d ≤ 70 mm)**
- **bearings in the 73 AC series with 25° contact angle (17 ≤ d ≤ 70 mm)**

Single Row Angular Contact Ball Bearings Loads

+ **Equivalent Bearing Loads**
+ **Minimum Load**
+ **Calculating The Axial Load For Bearings Mounted Singly Or Paired In Tandem**
+ **Load Carrying Capacity Of Bearing Pairs**

Designation System for Single Row Angular Contact Ball Bearing

Single row cylindrical roller bearings are identified by specific codes that describe their design and features. These designation codes include prefixes, basic designations, and suffixes that provide information on bearing series, bore size, and special features.

Category	Code	Description
Basic designation	ALS	Inch bearing
	AMS	Inch bearing
	22	/8 = 2 3/4 in. (69,85 mm) bore diameter
	to	
	40	/8 = 5 in. (127 mm) bore diameter
	E	Optimized internal design
Suffixes - External design (seals, snap ring groove, execution, etc.)	N1	One locating slot (notch) in one outer ring side face
	CA	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have axial internal clearance smaller than Normal (CB).
	CB	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have Normal axial internal clearance.
	CC	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have axial internal clearance greater than Normal (CB).
	G	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have axial internal clearance.
	GA	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have light preload.
	GB	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have moderate preload.
	GC	Bearing for universal matching. Two bearings arranged back-to-back or face-to-face have heavy preload.
	-2RZ	Non-contact seal, NBR, on both sides
Suffixes - Cage design	F	Machined steel cage, ball centred
	J	Stamped steel cage, ball centred
	M	Machined brass cage, ball centred; different designs are identified by a number following the M, e.g. M2
	MB	Machined brass cage, inner ring centred
	P	Glass fibre reinforced PA66 cage, ball centred
	PH	Glass fibre reinforced PEEK cage, ball centred
	Y	Stamped brass cage, ball centred

Category	Code	Description
Suffixes - Accuracy, clearance, preload, quiet running	P5	Dimensional and geometrical tolerances (tolerances of run-out and orientation) to class P5
	P6	Dimensional and geometrical tolerances (tolerances of run-out) to class P6
Suffixes - Bearing sets, matched bearings	DB	Two bearings matched for mounting back-to-back
	DF	Two bearings matched for mounting face-to-face
	DT	Two bearings matched for mounting in tandem

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Single Row Angular Contact Ball Bearings Catalogue

PDF guide engagement is encouraged by getting the single-row angular contact ball-bearing catalog PDF. This PDF contains information on these high-quality bearings' features, advantages, and uses, making it valuable for specialists from diverse fields. This PDF will help you with information regarding the compatibility and interchangeability with other brands, making the work easier for you. Download now and see the complete content to get the bearing you want and require.

Download

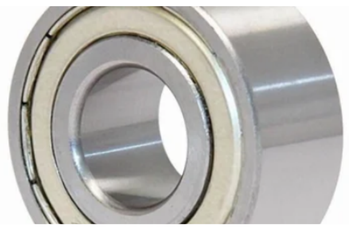
General bearing specifications

Metric Inch

Specification	Details
Dimension standards	Boundary dimensions: ISO 15 and ISO 12044
Tolerances	P6 dimensional tolerance
	P5 run-out
Values	ISO492
Internal clearance	CA - smaller than Normal axial clearance
	CB - Normal axial clearance
	CC - larger than Normal axial clearance
	G (standard for larger bearings) - Normal axial clearance
Preload	GA - light preload (standard)
	GB - moderate preload

Specification	Details
	GC - heavy preload
Friction (starting torque, power loss)	Use
Defect frequencies	Use

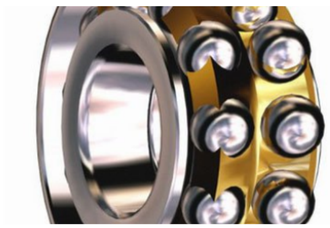
Explore More on Bearings



Affordable Angular Contact Bearings Without Compromise

August 29, 2024 Song

Particular attention should be paid to high-quality parts and components. Such elements as angular contact...



Duplex Angular Contact Bearings: When Two Is Better Than One

August 28, 2024 Song

The Duplex angular contact ball bearings are one of the most exciting areas of engineering and mechanics....

How to Fix Common Issues with Angular Contact Bearings

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Due to their geometric design contour, angular contact bearings are very useful in the rotating elements...

Frequently Asked Question

- Q: What are Single Row Full Complement Cylindrical Roller Bearings?
- Q: What are the main benefits of Single Row, Full Complement Cylindrical Roller Bearings?
- Q: In what industries do Full Complement Cylindrical Roller Bearings operate?
- Q: How are Single-row full-complement cylindrical Roller Bearings distinct from the ordinary cylindrical roller bearings?
- Q: Is it possible for Single Row Full Complement Cylindrical Roller Bearings to support axial loads?
- Q: What are the usual limits for the speed for Single Row Full Complement Cylindrical Roller Bearings?
- Q: Are Single Row Full Complement Cylindrical Roller Bearings suitable for substituting other radial types of bearings?