

S, CATALOGUES & TYPES? WHERE'S CYLINDRICAL ROLLER BEARING ROLLERS MANU



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YDTECH® MANUFACTURERS OF SUPER SHORT CYLINDRICAL ROLLERS, V CHAMFER CROSSED ROLLERS PARTS, SS440C, SS420 NEEDLES, ROLLERS, PINS! SUPPLIERS OF COLUMNAR ROLLERS FOR CYLINDRICAL ROLLER BEARING AS PRECISION ROLLING ELEMENT UNITS 52100 BEARING ROLLERS IN CHINA.

what's cylindrical roller bearing rollers?



the cylindrical rollers, it is meaning the outer surface is substantially straight and parallel to the axis of the roller. the cylindrical rollers are precision parts for bearing.



we have over 20 years of manufacturing experience of precision rollers. we had most stock, delivery time: send to europe, USA, or canada only 3-5 work days



cylindrical rollers are remarkable for their high mechanical strength and long lasting functional life. cylindrical rollers had multiple uses in a variety of



industries including automotive, truck: linear lead rails, ultra-thin bearings, needle bearings, one way clutches, one-way bearings, needle bearings, subminiature motor and so on.

sizes of cylindrical rollers elements

cylindrical rollers, columnar rollers, bearings parts

sizes	D _w	L _w	r _{smin}	r _{smax}	sizes	D _w	L _w	r _{smin}	r _{smax}
3x3	3	3	0.2	0.4	3x5	3	5	0.2	0.4
3.5x5	3.5	5	0.2	0.4	4x4	4	4	0.2	0.4
4x6	4	6	0.2	0.4	4x8	4	8	0.2	0.4
4.5x4.5	4.5	4.5	0.2	0.6	4.5x6	4.5	6	0.2	0.6
5x5	5	5	0.2	0.6	5x8	5	8	0.2	0.6
5x10	5	10	0.2	0.6	5.5x5.5	5.5	5.5	0.2	0.6
5.5x8	5.5	8	0.2	0.6	6x6	6	6	0.2	0.6
6x8	6	8	0.2	0.6	6x10	6	10	0.2	0.6
6x12	6	12	0.2	0.6	6.5x6.5	6.5	6.5	0.2	0.6
6.5x9	6.5	9	0.2	0.6	7x7	7	7	0.2	0.6
7x10	7	10	0.2	0.6	7x14	7	14	0.2	0.6
7.5x7.5	7.5	7.5	0.2	0.6	7.5x9	7.5	9	0.2	0.6
7.5x11	7.5	11	0.2	0.6	8x8	8	8	0.2	0.6
8x10	8	10	0.2	0.6	8x12	8	12	0.2	0.6
9x9	9	9	0.3	0.7	9x10	9	10	0.3	0.7
9x14	9	14	0.3	0.7	10x10	10	10	0.3	0.7
10x11	10	11	0.3	0.7	10x14	10	14	0.3	0.7
11x11	11	11	0.3	0.7	11x12	11	12	0.3	0.7
11x15	11	15	0.3	0.7	12x12	12	12	0.3	0.7
12x14	12	14	0.3	0.7	12x18	12	18	0.3	0.7
13x13	13	13	0.4	0.8	13x20	13	20	0.4	0.8
14x14	14	14	0.4	0.8	14x20	14	20	0.4	0.8
15x15	15	15	0.4	0.8	15x16	15	16	0.4	0.8
15x22	15	22	0.4	0.8	16x16	16	16	0.4	0.8

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16x17	16	17	0.4	0.8	16x24	16	24	0.4	0.8
17x17	17	17	0.4	1.0	17x24	17	24	0.4	1.0
18x18	18	18	0.4	1.0	18x19	18	19	0.4	1.0
18x26	18	26	0.4	1.0	19x19	19	19	0.4	1.0
19x20	19	20	0.4	1.0	19x28	19	28	0.4	1.0
20x20	20	20	0.4	1.0	20x30	20	30	0.4	1.0
21x21	21	21	0.5	1.1	21x30	21	30	0.5	1.1
22x22	22	22	0.5	1.1	22x24	22	24	0.5	1.1
22x34	22	34	0.5	1.1	23x23	23	23	0.5	1.1
24x24	24	24	0.5	1.1	24x26	24	26	0.5	1.1
24x36	24	36	0.5	1.1	25x25	25	25	0.5	1.1
25x36	25	36	0.5	1.1	26x26	22	26	0.5	1.1
26x28	22	28	0.5	1.1	26x40	22	10	0.5	1.1
28x28	28	28	0.6	1.4	28x44	28	44	0.6	1.4
30x30	30	30	0.6	1.4	30x48	30	48	0.6	1.4
32x32	32	32	0.6	1.4	32x52	32	52	0.6	1.4
34x34	34	34	0.6	1.4	34x55	34	55	0.6	1.4
36x36	36	36	0.7	1.7	36x58	36	58	0.7	1.7
38x38	38	38	0.7	1.7	38x62	38	62	0.7	1.7
40x40	40	40	0.7	1.7	40x65	40	65	0.7	1.7
42x42	42	42	0.9	2.1	45x45	45	45	0.9	2.1
precision cylindrical rollers for bearings, roller bearings parts, cylindrical rolling elements									

the specific heat treatment process for cylindrical rollers will depend on the specific grade of steel being used and the desired properties of the rollers for the intended application. It is essential to follow the recommended heat treatment process to ensure that the rollers have the required strength, hardness, and durability for the intended application.

the ground ends needle rollers are mainly used as bearing rolling elements to transmit torque and reduce friction. they can also serve as precision shafts or as precision locating pins. through some special machines and production process. we have solved the problem how to make ultrashort, special chamfer and round cylindrical rollers in mass production.

sizes of cross cylindrical rollers,super short cylindrical rollers elements

super short cylindrical rollers, precision cylindrical rollers

φ0.8*0.5 _{mm}	φ0.8*0.6 _{mm}	φ0.8*0.8 _{mm}
φ1.00*0.8 _{mm}	φ1.00*0.9 _{mm}	φ1.00*1.0 _{mm}
φ1.50*0.8 _{mm}	φ1.50*0.8 _{mm}	φ1.50*1.5 _{mm}
φ2.00*0.6 _{mm}	φ2.00*0.7 _{mm}	φ2.00*2.0 _{mm}
φ2.50*1.00 _{mm}	φ2.50*1.5 _{mm}	φ2.50*2.5 _{mm}
φ3.00*1.5 _{mm}	φ3.00*2.0 _{mm}	φ3.00*3.0 _{mm}
φ3.50*2.0 _{mm}	φ3.50*2.2 _{mm}	φ3.50*3.5 _{mm}
φ4.00*3.0 _{mm}	φ4.00*3.5 _{mm}	φ4.50*4.5 _{mm}
φ5.00*4.0 _{mm}	φ5.00*4.5 _{mm}	φ5.00*5.0 _{mm}
φ5.50*3.5 _{mm}	φ5.50*4.5 _{mm}	φ5.50*5.50 _{mm}
φ6.00*5.0 _{mm}	φ6.00*5.5 _{mm}	φ6.00*6.0 _{mm}
φ6.50*5.0 _{mm}	φ6.50*5.5 _{mm}	φ6.50*6.0 _{mm}
φ7.00*6.5 _{mm}	φ7.00*6.6 _{mm}	φ7.00*7.0 _{mm}
φ7.50*5.6 _{mm}	φ7.50*6.7 _{mm}	φ7.50*7.5 _{mm}
φ8.00*6.6 _{mm}	φ8.00*7.7 _{mm}	φ8.00*8.0 _{mm}
φ8.50*5.0 _{mm}	φ8.50*6.8 _{mm}	φ8.50*8.5 _{mm}
φ9.00*6.5 _{mm}	φ9.00*8.8 _{mm}	φ9.00*9.0 _{mm}
φ12.00*10.0 _{mm}	φ12.00*11.5 _{mm}	φ12.00*12.0 _{mm}
high super short cylindrical rollers, precision cylindrical rollers,cylindrical rolling elements,		

φ.....	φ.....	φ.....
high super short cylindrical rollers, precision cylindrical rollers, cylindrical rolling elements,		

stainless steel cylindrical rollers or needle rollers are commonly used in various industrial applications, including food processing, medical equipment, and marine applications, where corrosion resistance is critical. They are also used in high-temperature environments where other materials may degrade, such as in furnaces or ovens.

there are several types of stainless steel that can be used to manufacture cylindrical rollers or needle rollers, including austenitic, ferritic, and martensitic stainless steels. The specific type of stainless steel used will depend on the application and the desired properties of the roller, such as hardness, strength, and corrosion resistance.

technical parameters of cylindrical rollers

cylindrical columnar rollers, cylindrical rolling elements

diameter tolerance	+0/-0.005, +0/-0.003, +0/-0.002, grouping for 0.001mm or 0.0005mm
length tolerance	+/-0.015, +/-0.01, +0/-0.015, +/-0.005,+0/-0.005
radius	R0.03-R0.3
parallelism	0.01, 0.005
perpendicularity	0.01, 0.005
circularity	0.001
cylindricity	0.001
roughness	Ra0.1
precision cylindrical rollers for bearings, roller bearings parts, cylindrical rolling elements	

cylindrical rollers depends on the manufacturing process and the level of precision required for the specific application. we can use various methods such as precision grinding or honing to achieve high levels of accuracy in cylindrical rollers.

cylindrical rollers can be manufactured to high levels of accuracy, depending on the specific application requirements. The accuracy of cylindrical rollers refers to how closely their actual dimensions match their specified dimensions. high-accuracy cylindrical rollers are typically used in applications where precise motion or positioning is required. in high-precision machining or measurement equipment, or in applications where there is a need for low friction and high wear resistance.

diameter and roundness of cylindrical rollers

I_G =roller diameter gauge interval.

precision cylindrical rollers, loose cylindrical rollers, cylindrical roller bearing rollers

grade	D_w/mm		$V_{D_w L}$ max	I_G	regulation values			C_{ir} max
	exceed	to						
G0	-	18	1	1	-10,....,-1	0	+1,....,+5	0.3
G0	18	30	1	1	-10,....,-1	0	+1,....,+5	0.4
G1	-	18	2	1	-10,....,-1	0	+1,....,+5	0.30.4
G1	18	30	2	1.5	-10.5,....,-1.5	0	+1.5,....,+6	0.5
G2	-	18	3	1	-10,....,-1	0	+1,....,+5	0.5
G2	18	30	3	1.5	-19.5,....,-1.5	0	+1.5,....,+6	1.0
G2	30	-	3	2	-20,....,-2	0	+2,....,+6	1.5
G3	-	18	1	1	-10,....,-1	0	+1,....,+5	1.0
G3	18	30	1	2	-20,....,-2	0	+2,....,+6	1.5
G3	30	-	5	3	-24,....,-3	0	+3,....,+6	2.5
precision cylindrical rollers for bearings, roller bearings parts, cylindrical rolling elements								

chromium steel 52100 cylindrical rollers are a high-quality, reliable choice for a wide range of demanding applications where performance and reliability are critical. cylindrical rollers made from chromium steel 52100 typically have tight tolerances and are precision ground or honed to ensure consistent size and shape. They are also commonly heat-treated to enhance their strength and durability.

the high carbon content of 52100 steel provides excellent hardness and wear resistance, while the high chromium content improves corrosion resistance and enhances the steels toughness. these properties make it

ideal for use in high load, high speed applications where the rollers are subjected to significant stresses and wear.

V-block measurement for roundness of cylindrical rollers

precision cylindrical rollers of loose roller bearings

angle	wave numbers									
	3	5	7	9	11	13	15	17	19	21
60°C	3	-	-	3	-	-	3	-	-	3
90°C	2	2	-	-	2	2	-	-	2	2
120°C	1	2	2	1	-	-	1	2	2	

precision cylindrical rollers for bearings, roller bearings parts, cylindrical rolling elements

bearing steel cylindrical rollers are a high-quality, reliable choice for a wide range of demanding applications where performance and reliability are critical. bearing steel cylindrical rollers are typically manufactured to tight tolerances and are precision ground or honed to achieve a uniform size and shape. they are also often heat-treated to enhance their strength and durability.

bearing steel cylindrical rollers are typically used in applications where high load capacity, high speed, and precise motion control are required, such as in automotive transmissions, aircraft engines, and machine tools. they are designed to withstand the high stresses and wear associated with these types of applications, while providing smooth and accurate motion.

chrome (axletree) steel cylindrical rollers pins, precision cylindrical rollers, bearing steel cylindrical rollers, cylindrical roller bearing rollers

specification	mark	C	Si	Mn	S	P	Cr	Mo
china(GB)	GCr15	0.95-1.05	0.15-0.35	0.25-0.45	<0.025	<0.025	1.40-1.65	-
USA(AISI, UNS)	52100(G52986)	0.98-1.10	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.10
japan (JIS)	SUJ2	0.95-1.10	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.08
germany(DIN/W-Nr)	100Cr6/w3(1.3505)	0.95-1.05	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.08
france NF	100C6	0.95-1.05	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.08
UK(BS)	535A99	0.95-1.05	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.08
sweden(SKF)	SKF3	0.95-1.05	0.15-0.35	<0.5	<0.025	<0.025	1.30-1.60	<0.08

chrome (axletree) steel cylindrical rollers pins, precision cylindrical rollers, bearing steel cylindrical rollers, cylindrical roller bearing rollers

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