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**Srednevolzhskiy
BEARING PLANT**

Product Catalogue

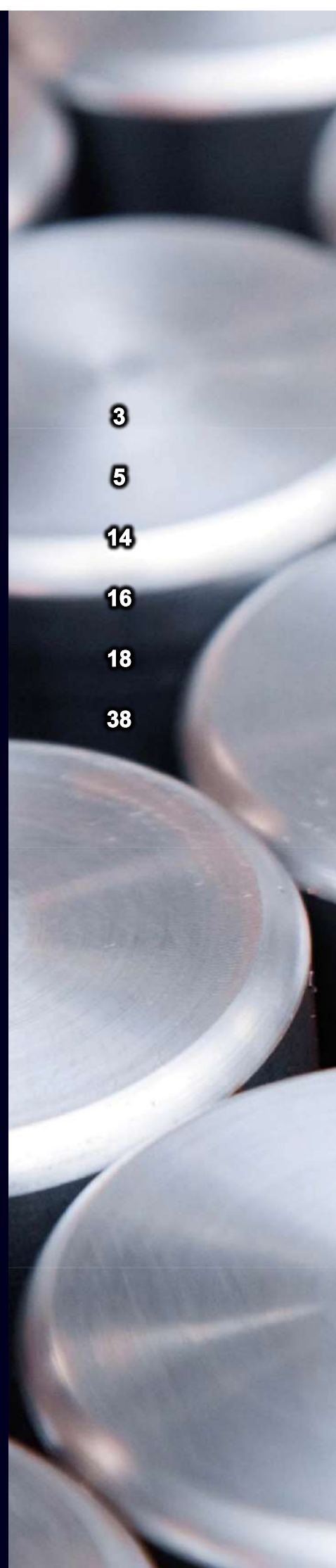


**Srednevolzhskiy
BEARING PLANT**



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Dear friends!



MAKSIMOV
Igor Valentinovich,
CEO of SVPZ OOO

I am glad to greet you on behalf of all members of the Middle Volga Bearing Plant!

Middle Volga Bearing Plant OOO (Srednevolzhskiy podshipnikovyy zavod, or SVPZ) is an actively developing plant established in 2006.

At the moment, our plant takes the leading position in production of bearing products for the metal industry; also, it is a key manufacturer of big bearings used in metallurgical production, oil and gas equipment, cement and coal industries, general mechanical engineering, and in the military industrial sector.

Regular customers of SVPZ include leading companies in various industrial sectors of the CIS member countries, other countries of the former Soviet Union as well as any other distant countries.

Our plant maintains the full cycle of big bearing production, from design engineering, metal and semi-finished products incoming control to delivery of products to customers and installation supervision followed by after-sale service.

SVPZ OOO manufactures more than 260 standard sizes of roller and ball bearings of various structures. The plant manufactures bearings not only in terms of serial production; also, it produces tailor-made non-typical bearings, including bearings similar to ones made in foreign countries.

SVPZ OOO applies up-to-date engineering procedures and high-production equipment to ensure quality and reliability of its products. An appropriate level of quality is guaranteed by certificates of conformity with Russian and international standards.

Our company's success is based on our employees. SVPZ team consists of result-oriented professionals. We are striving for employment conditions at our plant give every employee an opportunity to actualize him- or herself to the fullest extent.

This catalogue represents bearings manufactured by SVPZ in compliance with national and international standards as well as certain specifications. Our plant's design service is continuously working on improving quality of our bearing products; therefore, SVPZ reserves the right to change structure, engineering procedure, production methods, and relevant regulations and specifications as necessary.

Looking forward to effective collaboration!





Bearings—General Information

Classification of Bearings

Rolling bearings are classified by the following primary characteristics:

- Direction of loading in relation to the shaft axis
- Shape of rolling elements
- Number of rolling-element rows
- Sensitivity to misalignment
- Mounting

Depending on the direction of loading, bearings fall into four primary types:

- Radial bearings
- Radial–thrust bearings
- Thrust–radial bearings
- Thrust bearings

In terms of rolling-element shapes, bearings fall into the following types:

- Ball bearings
- Roller bearings
- Combined bearings

Roller bearings' rolling elements come in various versions:

- Cylindrical (long and short)
- Tapered
- Barrel-shaped (symmetrical and asymmetrical)

According to the number of rolling-element rows, bearings fall into the following types:

- Single-row bearings
- Double-row bearings
- Four-row bearings
- Multirow bearings

Depending on sensitivity to misalignment, bearings are divided into the following:

- Self-aligning bearings (up to 3° misalignment allowable)
- Non-self-aligning bearings

According to how they are mounted in the assembly, bearings are classified as follows:

- Bearings with snap ring in outer ring
- Bearings with flanged outer ring

According to sealing devices used, bearings are divided into three types:

- Shielded bearings
- Sealed bearings
- Unsealed bearings

Identification of Bearings

The designation of an SVPZ bearing consists of its primary designation and supplementary designation.

The supplementary designation goes before the primary designation (as a prefix) and after it (as a suffix).

The primary designation in numerical form denotes the type, bore diameter, diameter and width series, and design version of the bearing. This designation provides primary information on whether the bearing has any of the following:

- boundary dimensions to GOST 3478-2012: Rolling Bearings—Boundary Dimensions
- bearing-steel rings and rolling elements
- normal tolerance class to GOST 520-2011: Rolling Bearings — General Specification
- normal-group radial internal clearance to GOST 24810-2013: Rolling Bearings—Internal Clearance
- the cage specified for the basic version in the manufacturer's documents
- a rated vibration level
- an unrated vibration level

The supplementary designation is alphanumeric, and it denotes the tolerance class, radial clearance, and other specifications of the bearing.

The primary and the supplementary designations of the bearing form its complete designation to GOST 3189-89: Ball Bearings and Roller Bearings—Identification Code.

Key to the Primary Bearing Designation

Figure 1 shows the key to the primary designation for bearings with a bore diameter greater than 10mm (except for those equal to or greater than 500 mm). The symbols are read from the right to the left.

Width series 7 8 9 0 1 2(0) 3 4 5 6

Design version

Width series

Diameter series 0 8 9 1 7 2(5) 3(6) 4 5

Bore diameter

0

00

0

0

00

----- Figure 1 -----

Primary designation for bearings with a bore diameter equal to or greater than 10 mm

6

Designation of the Bore Diameter

The bore size is denoted by symbols for the nominal diameter of the cylindrical or tapered bore of the bearing.

Bore diameters from 20 mm to 495 mm divisible by five are denoted by two-digit numbers obtained by dividing the nominal diameter by five; bore diameters from 500 mm to 2,000 mm, by the number for the nominal diameter separated with a slash from the other symbols in the designation (e.g., 777/650).

If a bore diameter in the range 20–495mm is a fraction or integer not divisible by five, it is assigned the designation of the nearest whole diameter obtained by dividing the nominal diameter by five, and the number 9 is indicated third in the bearing's primary designation (see fig. 1).

Designation of the Size Series

The designation for the size series of a bearing consists of the diameter series and the width series. In the primary designation, the symbol for the diameter series goes second (fig.1) or third; for the width series, seventh.

Depending on the type of bearing, the diameter and width series must comply with GOST 3478-2012: Rolling Bearings—Boundary Dimensions. Table 1 lists diameter series and associated width series.

Bearings with nonstandard inner or outer diameters or widths—that is, those not in keeping with the GOST 3478-2012 standard—have the number 6, 7, or 8 for the diameter series, and they bear no designation for the width series.

Type Designation

The type of bearing is designated by a number from table 2, and the number goes fourth in the primary designation.

Designation of the Design Version

The fifth and the sixth numbers in the primary designation shown in figure 1 denote the design version of the bearing, and the designation ranges between 00 and 99. Basic design versions are described in GOST 3395-89: Ball and Roller Bearings—Types and Constructional Varieties.

In the primary designation, the designations for the width series, design version, and type of the bearing having the number 0 to the left of the last significant number are omitted, and so the designation may consist of six, five, four, three, or two numbers. Following are two examples of primary designations:



Example 1. 777/650XM stands for a tapered roller bearing with a bore diameter of 650 mm, and the first number 7 is the diameter series; the second, the type of bearing; the third, the design version.

Example 2. 3003264H stands for a double-row radial spherical roller bearing with a bore diameter of 320 mm, and 64 is the bore diameter; 2, the diameter series; the first 3 from the right, the type of bearing; the second 3, the design version; 0, the width series.

Table 1. Width series according to diameter series

Diameter series	Width series												
	Radial and radial-thrust bearings						Single-row tapered-roller bearings		Single thrust and thrust-radial bearings				
0	1	3											
8	7	1	2	3	4	5	6			7	9	1	
9	7	1	2	3	4	5	6	2	3	7	9	0	
1	7	0	2	3	4	5	6	2	3	7	9	0	
7	7	1	2	3	4			3		7	9	0	
2(5)	8	0	1	3	4			0		7	9	0	
3(6)	8	8	0	1	3			0	1	7	9	0	
4	0	2									7	9	0
5											9		

Note: The width-series designation (0) relates to bearings that fall within diameter series (5) and (6).

Table 2. Designations for types of bearings

Type of bearing	Designation
Deep groove ball bearing	0
Radial spherical ball bearing	1
Radial cylindrical roller bearing	2
Radial spherical-roller bearing	3
Radial bearing with long cylindrical or needle rollers	4
Radial wound-roller bearing	5
Angular contact ball bearing	6
Tapered roller bearing	7
Thrust ball or thrust-radial bearing	8
Thrust roller or thrust-radial bearing	9

Supplementary Designations

Figure 2 shows the order of supplementary designations that are part of the bearing's complete designation and that denote any additional specifications for the bearing.

Depending on the maximal deviations of dimensions, shapes, positions of bearing surfaces in relation to one another, and rolling accuracy, the following tolerance classes (listed in ascending order of accuracy) can be assigned to the bearing:

- For ball bearings, single-row cylindrical roller bearings, and angular contact ball bearings: Normal, 6, 5, 4, T, 2
- For tapered roller bearings: 0, Normal, 6X, 6, 5, 4, 2
- For thrust bearings and thrust-radial bearings: Normal, 6, 5, 4, 2

For all bearings except tapered roller bearings, the number 0 is used to denote the Normal class.

For tapered roller bearings, the number 0 is used to denote tolerance class 0; the letter N, the Normal class; and the letter X, class 6X.

The number 0 is not used in the marking unless there is a marking symbol to the left of the number.

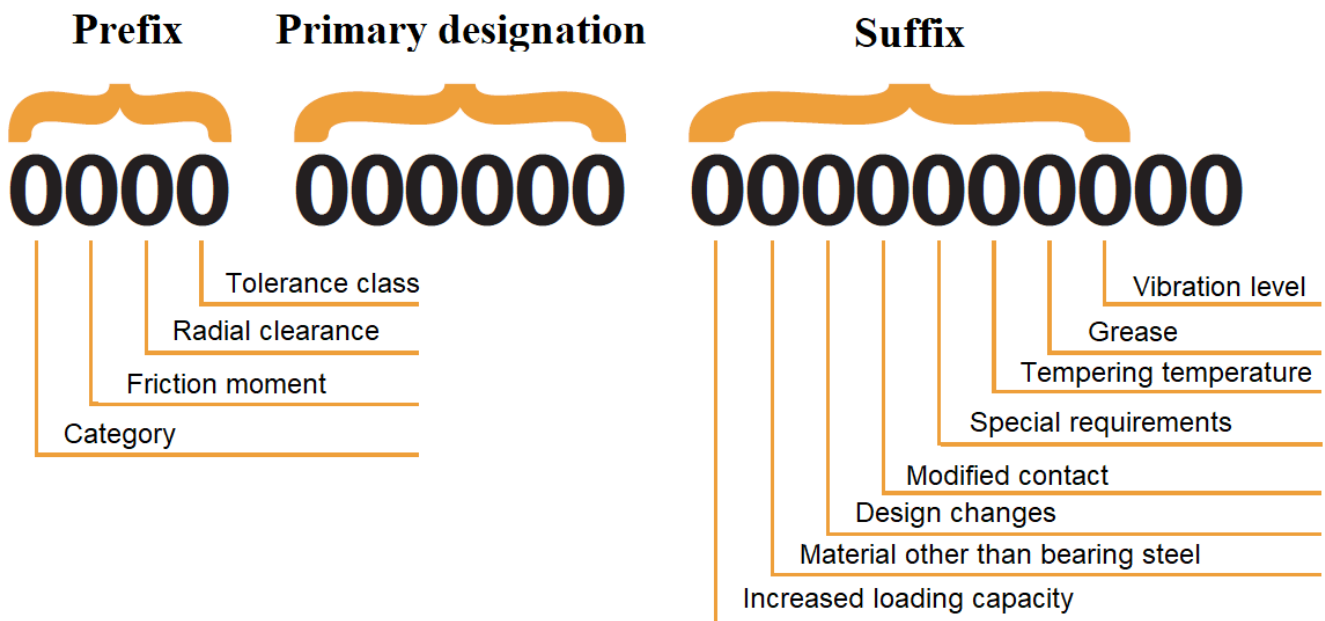
Table 4 lists designations for stabilizing-tempering temperatures for rings.

No designation is used for the normal radial clearance. Clearances other than normal are designated 1, 2, 3, ..., 9 and indicated before the symbol for the bearing's tolerance class. The friction moment is designated 1, 2, 3, ..., 9. In this case, bearings with a normal undesignated clearance have the letter M for a clearance designation.

In this case, bearings with a normal undesignated clearance have the letter M for a clearance designation.

If a bearing has an increased loading capacity, it is designated A.

A bearing whose parts are made of materials not used for the basic version has additional markings according to table 3. A subsequent version of the bearing has a numerical designation in addition to the letter—for example, Г1, Г2, and so on.



-----Figure 2-----
Complete bearing designation

Table 4 lists designations for stabilizing-tempering temperatures for rings.

Designations for grease grades are given in table 5. The vibration level is indicated if it is rated.

Table 3. Designations for bearings with parts made of materials other than those used for the basic version

Part material	Designation	Cage material	Designation
Steel:		Solid cage:	
heat-resistant steel	P	bronze	Б
stainless steel	Ю	steel or ferromagnetic alloy	Г
carburized steel	X		
high-speed steel	P	brass	Л
bearing steel with special additives (vanadium, cobalt, molybdenum, etc.), heat-resistant	H	light alloys	Д
		fabric-based laminate, polyamide, plastic	Е
plastic, glass, ceramic	Я		

Table 4. Designations for stabilizing-tempering temperatures for rings

Stabilizing-tempering temperature (°C)	200	225	250	300	350	400	450
Temperature designation	T	T1	T2	T3	T4	T5	T6

Table 5. Designations of grease grades used for capped bearings

Grease grade	Designation
ЦИАТИМ-201	—
ОКБ-122-7	C1
ЦИАТИМ-221	C2
ВНИИ НП-210	C3
ЦИАТИМ-221С	C4
ЦИАТИМ-202	C5
ПФМС-4С	C6
ВНИИ НП-271	C7
ВНИИ НП-235	C8
Л 3-31	C9
№. 158	C10
ВНИИ НП-262	C11
ВНИИ НП-260	C12
ВНИИ НП-281	C13
FIOL-2У	C14
ВНИИ НП-207	C15
ВНИИ НП-246	C16
LITOL-24	C17
ВНИИ НП-233	C18
ВНИИ НП-286	C19
ВНИИ НП-274	C20
ВНИИ НП-286М	C21
СВЭМ	C22

Grease grade	Designation
ШРУС-4	C23
СЭДА	C24
INDA	C25
ЛДС-3	C26
FANOL	C27
CHEVRON SRI-2	C28
ROBOTEMP	C29
UNOLA	C30
LITIN 2	C31
№. 158М	C32
FIOL-2MP	C33
ШРУС-4М	C34
BERUTOX FE 18 EP	C35
ВН-14	C36
МС-1000	C37
МС-1000Т	C38
МЕТАЛРАКС-П	C39
ВНИИ НП-559	C40
ELMA	C41
	C42
BUKSOL	C43
KLUBERPIEX BEM 41-132	C44
MOBILITH SHC 221	C

Symbols for vibration levels, with each next designation indicating more stringent vibration requirements, are as follows: Ш, Ш1, Ш2, and so on.

Example complete bearing designation:
6-10079/900AXM: single-row tapered roller

bearing with a bore diameter of 900 mm; 9 is the diameter series; 7 is the type of bearing; 00 is the design version, 1 is the width series; 6 is the tolerance class; A indicates an increased loading capacity; X, carburized steel; M, modified.

Table 6. Comparison of designations for rolling-bearing types and design versions

Type of bearing	Design version	Bearing designation					
		Country	Russia	Sweden	Germany		
		Company	SVPZ	SKF	FAG		
Deep groove ball bearings			1000800 1000900 100 7000100 200 300	61800 61900 6000 6000 6200 6300	61800 61900 6000 16000 6200 6300		
	with snap-ring groove		50200 50300	6200N 6300N	6200N 6300N		
	with one shield		60200 60300	6200 Z 6300 Z	6200 Z 6300 Z		
	with two shields		80200 80300	6200 2Z 6300 2Z	6200 2Z 6300 2Z		
	with two seals		180200 180500 180300	180200 62200 2RS 6300 2RS	6200 2RS 62200 2RS 6300 2RS		
	Radial spherical ball bearing	with cylindrical bore		1200 1300 1600	1200 1300 2300	1200 1300 2300	
		with tapered bore		111200 111300	1200K 1300K	1200K 1300K	
		with clamping sleeve		11200 11300	1200K+H200 1300K+H300	1200K+H200 1300K+H300	
		Cylindrical roller bearings	without outer-ring ribs		2002800 2100 2200 2500 2300 2600	N2800 N1000 N200 N2200 N300 N2300	N2800 N1000 N200 N2200 N300 N2300
			with single-rib outer ring		12500 12300	NF2200 NF300	NF2200 NF300
			without inner-ring ribs		1032800 1032900 2032100 32100 32200 32500 32300 32600 32400	NU1800 NU1900 NU2000 NU1000 NU200 NU2200 NU300 NU2300 NU400	NU1800 NU1900 NU2000 NU1000 NU200 NU2200 NU300 NU2300 NU400

The boundary dimensions, specifications, and performance of the SVPZ bearings listed in this catalogue meet international standards, and the bearings are interchangeable with those from non-Russian manufacturers.

Tables 6 and 7 list designations for SKF bearings (Sweden) and for FAG bearings (Germany) and designations for corresponding Russian bearings.

Table 6 (continued)

Type of bearing	Design version	Bearing designation			
		Country	Russia	Sweden	Germany
		Company	SVPZ	SKF	FAG
Cylindrical roller bearings	with single-rib inner ring		42100	NJ1000	NJ1000
			42200	NJ200	NJ200
			42500	NJ2200	NJ2200
			42300	NJ300	NJ300
			42600	NJ2300	NJ2300
			42400	NJ400	NJ400
	with ribless inner ring and thrust collar		52300	NU300+HJ300	NU300+HJ300
			52600	NU2300+HJ2300	NU2300+HJ2300
	with single-rib inner ring and thrust collar		62500	NJ2200+HJ2200	NJ2200+HJ2200
			62300	NJ300+HJ300	NJ300+HJ300
			62600	NJ2300+HJ2300	NJ2300+HJ2300
	with single-rib inner ring and loose-rib inner ring		62400	NJ400+HJ400	NJ400+HJ400
			1092900	NUP1900	NUP1900
			92100	NUP1000	NUP1000
			92200	NUP200	NUP200
			92300	NUP300	NUP300
		92600	NUP2300	NUP2300	
	92400	NUP400	NUP400		
with tapered bore:					
— with inner-ring ribs		3182100	NN3000K	NN3000AK	
		4162900	NNU4900BK	NNU4900K	
— with outer-ring ribs		4162800	NNU4800K	NNU4800K	
with cylindrical bore:					
— with inner-ring ribs		3282100	NN3000	NN3000A	
		4262800	NNU4800	NNU4800	
— with outer-ring ribs		4262900	NNU4900	NNU4900	
Radial spherical-roller bearing	with cylindrical bore		3003700	23100	23100
			4003700	24100	2410C
			4053700	24100C	24100E
			3500	22200	22200
			3003200	23200	23200
			3600 53600	22300	22300
			3003300	223000	22300E
				23300	22300
	with tapered bore		3113100	23000K	23000K
			4113100	24000K	24000K
			3113700	23100K	23100K
			4153700	24100K	24100K
			3113200	23200K	23200K
with tapered bore		113500	22200K	22200K	
		113600	22300K	22300K	
	with clamping sleeve		3013100	23000K+H3000	23000K+H3000
			3013700	23100K+H3100	23100K+H3100
			3013200	23200K+H3200	23200K+H3200
		13600	22300K+H2300	22300K+H2300	

Table 6 (continued)

Type of bearing	Design version	Bearing designation				
		Country	Russia	Sweden	Germany	
		Company	SVPZ	SKF	FAG	
Angular contact ball bearing	contact angle 12° (15°)	1036800 1036900 36100 36200	71800C 71900C 7000C 7200C	15	15°	
	contact angle 26° (25°)	1046800 1046900 46100 46200 46300 46400	71800AC 71900AC 7000AC 7200AC 7300AC 7400AC	25°	25°	
	contact angle 36° (40°)	1066800 1066900 66100 66200 66300 66400	71800B 71900B 7000B 7200B 7300B 7400B	40°	40°	
	with two-piece inner ring with four-point contact	176100 176200 176300	QJ1000 QJ200 QJ300		QJ1000 QJ200 QJ300	
	O arrangement	266100	7000B/DB			
	X arrangement	346300 366200 366300 366400	7300AC/ DF 7200B/ DF 7300B/DF 7400B/DF			
	T arrangement	436200 446300 466100 466300 466400	7200C/DT 7300AC/ DT 7000B/ DT 7300B/DT 7400B/DT			
	with two-piece inner ring	3056200 3086300	3200 3300D		3200 33000	
	Radial bearing with tapered rollers	contact angle 10°– 18°	2007900(A) 2007100(A) 7200(A) 7500A 7300A 7600A 3007100A 3007200A 3007700A	32900 32000X 30200 32200 30300 32300 33000 33200 33100		32900 32000X(XA) 30200(A) 30300A 32300(A) 33200 33100
		contact angle 20°–30°	27300 27600A 1027300A	31300X 32300B 31300		31300X 32300B 31300A
with outer-ring thrust rib		67200 67500A	30200RX 32200RA			

Table 6 (continued)

Type of bearing	Design version	Bearing designation			
		Country	Russia	Sweden	Germany
		Company	SVPZ	SKF	FAG
Ball thrust bearing			9008100	59100	59100
			8100	51100	51100
			8200	51200	51200
			8300	51300	51300
			8400	51400	51400
	with spherical seating washer		18200	53200+U200	53200+U200
			18300	53300+U300	53300+U300
			18400	53400+U400	53400+U400
double		38200	52200	52200	
Roller thrust–radial bearings	spherical		9039200	29200	29200MS
			9039300	29300	29300MS
			9039400	29400	29400MS
Roller thrust	single		9009100	89100	89100
			9009400	94008	94008
			9200	81000	81000

Table 7. Comparison of supplementary designations

Country		Russia	Sweden	Germany
Company		SVPZ	SKF	FAG
Designation of tolerance class		0	PO	PO
		6	P6	P6
		5	P5	P5
		4	P4	P4
		2	P2	P2
Type of bearing		Designation of radial-clearance group		
Single-row deep groove ball bearings, $d < 200$ mm		6	C2	C2
		normal	normal	CO normal
		7	C3	C3
		8	C4	C4
		9	C5	C5
Radial cylindrical-roller bearings with non-interchangeable parts	With cylindrical (tapered) bore, $d < 50$ mm	0	C1	C1NA
		5	C2	C2
		normal (6)	normal	CO normal C3
		7	C3	C3
		8	C3	(C5)
Double-row radial spherical roller bearing with cylindrical (tapered) bore		1	—	—
		2	C2	C2
		normal	normal	CO normal C3
		3	C3	C4
		4	C4	C5
	5	C5		
Designations for design modifications of roller bearings				
Modified internal design		A	—	A
Boundary dimensions changed to conform to ISO stand.		—	X	X
Modified contact		M	—	—
Circular groove and lubrication holes in outer ring		H	W33	S
Material of solid cage		Designation of cage material		
Ferrous metals		Г	F	F
Aluminum alloy		Д	L	L
Brass		Л	M	M
Glass fiber–reinforced polyamide		E	TN	TV(TN)
Fabric-based laminate		E	T	TP

Selecting the Type of Bearing

Rolling bearings are classified:

- by the direction of loading in relation to the shaft axis (radial, radial–thrust, thrust–radial, and thrust bearings);
- by the shape of rolling elements (ball, roller, needle roller);
- by the number of rows of rolling elements (single-row, double-row, etc.); and
- by alignment capability (self-aligning and non-self-aligning); and other features.

For a detailed classification, see the existing standards. Don't, however, rely entirely on this classification, because a lot of bearing types can satisfy various applications. For example, deep groove ball bearings, open type, can carry not only a radial load but also a moderate axial load; therefore at a high rotational speed those bearings are preferable to thrust bearings. So there are no strict rules in selecting the type of bearing.

Besides, a machinery designer often has to make decisions with mutually exclusive requirements in mind. For instance, sometimes the dimensions of the bearing's outer and bore diameters need to be assumed factoring in the housing bore diameter or the shaft diameter. Radial space limitations bring to use a needle roller bearing—and sometimes even a needle-roller and cage assembly using housing parts of the machine as outer and inner rings. If space is tight axially, bearings with short cylindrical rollers are used.

The magnitude and direction of load is a governing factor in selecting the type and size of a bearing. With light loads and small shaft diameters, ball bearings are used; for heavy loads and large shaft diameters, roller bearings are the better choice because they are more rigid and can carry heavy loads, while being of the same dimensions as ball bearings.



Needle-roller bearings, cylindrical roller bearings without ribs on any ring, and toroidal bearings are designed to carry purely radial loads only. Other radial bearings can, to an extent, carry axial loads.

Thrust bearings accommodate only axial loads. Single thrust ball bearings are designed to carry axial loads in one direction, while double thrust ball bearings can carry axial loads in both directions. When combined loads are applied, radial angular contact ball bearings and tapered-roller bearings are preferable. In this case the magnitude of the axial load applied to the bearing depends on the contact angle.

The higher the contact angle, the higher the bearing's axial loading capacity.

If the shaft and the housing are misaligned because of technological errors or of the shaft deflected under working loads, spherical ball and roller bearings are the right choice.

When selecting a bearing, keep these considerations in mind. And for quick selection of bearing types, table 1 follows. If you know the conditions under which the bearing will be loaded and the operating requirements, you can choose the most appropriate design.

Table 1. Suitability of bearings for certain operating conditions

Suitability:		Design			Suitability													
		separable	tapered bore	one- or both-sided seal	radial load	axial load	combined load	high speed	high running accuracy	high stiffness	low noise	low friction	misalignment compensation	compensation for thermal expansion of shaft inside bearing	compensation for shaft heat elongation in loose fit	shaft fixed axially		
Types of bearings																		
Ball bearings	Single-row radial bearings	☐	☐	■	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Single-row angular contact ball bearings	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Double-row radial–thrust or double bearings	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Double-row self-aligning spherical bearings	☐	■	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Single thrust bearings	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Single-row thrust–radial bearings	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Multitrow thrust–radial bearings	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Roller bearings	Radial bearings with short cylindrical rollers fixed by ribs	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Radial bearings with short cylindrical rollers (not fixed)	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Radial needle-roller bearings	■	☐	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Single-row radial spherical bearings	☐	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Double-row radial spherical bearings	☐	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Radial–thrust tapered-roller bearings	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Thrust–radial spherical bearings	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Thrust cylindrical-roller bearings	■	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Quality Policy

To ensure consistent quality of products and increase competitive ability and work efficiency, the quality management system is developed, documented, and maintained at SVPZ OOO. The plant has a certificate of conformity with ISO 9001:2015.

SVPZ has its own metrology laboratory fitted with state-of-the-art equipment that is certified by the Volga Centre of Standardization and Metrology. This ensures compliance of our bearings with technical requirements of the standards.

CERTIFICATE



for the management system according to ISO 9001:2015

The proof of the conforming application with the regulation was furnished and in accordance with certification procedure it is certified for the company

Limited Liability Company "SredneVolzhskiy Bearing Plant"

443022, Samara, pr. Kirova, 10, Russia
with location (according to enclosure)

Scope

Production of ball and roller bearings

Certificate Registration No.: TIC 15 100 96600

Valid until: 2021-11-30
Valid from: 2018-12-01

Audit Report No.: 3330 2EP3 J0

This certification was conducted in accordance with the TIC auditing and certification procedures and is subject to regular surveillance audits.

TÜV Thüringen e.V.
Certification body for
systems and personnel



Moscow, 2018-09-14



Original certificates
are branded with a hologram.

This certificate was created by the critical location of TÜV Thüringen e.V. in Moscow:
Интераттика ТУВ им Verband mit TÜV Thüringen, Архитектор: Власов, Страße 33, 17323 Москва, Руссische Föderation.

The current validity can be demanded at our homepage www.tuev-thueringen.de
Zertifizierungsstelle des TÜV Thüringen e.V. • Ernst-Ruska-Ring 6 • D-07745 Jena • ☎ +49 3641 399740 • ✉ zertifizierung@tuev-thueringen.de



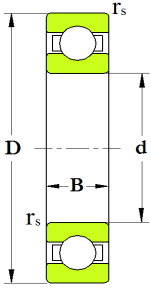
Catalogue

18



Deep groove ball bearings

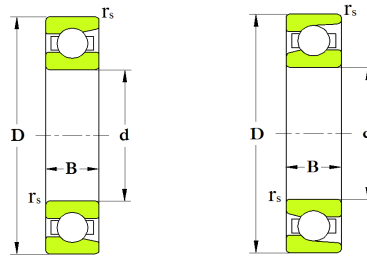
Single-row deep groove ball bearings, open type



Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Allowable speed (min ⁻¹)	Weight (kg)	International designation
	d	D	B	C (kn)	Co (kn)				
80-144Л	220	340	56	245	290	3	1800	19,2	6044MA
1000948Л	240	320	38	159	200	3,5	1600	9,6	61948MA
156Л	280	420	65	310	420	5,0	1400	33,6	6056MA
1000964Л	320	440	56	275	394	5	1200	27	61964
6-1000868Л	340	420	38	178	196	3,5	1200	12,3	61868MA
172Л	360	540	82	462	720	5	1000	71,5	6072MB

Angular contact ball bearings

single-row radial-thrust bearings

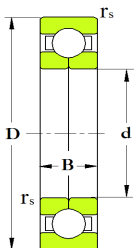


Drawing 1

Drawing 2

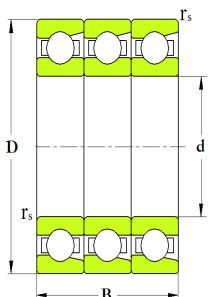
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number	International designation
	d	D	B	C (kn)	Co (kn)					
66322Л	110	240	50	190	225	4	2000	11	1	7322MB
7028BGST	140	210	33	94	100	6,8	1200	4,03	1	7028BGST
46330Л	150	320	65	357	370	5	16000	26	1	7330MB
66432Л	160	400	88	526	690	6	1200	67,3	1	7432M
46244Л	220	400	65	235	258	5	1000	41,2	1	7244MB
66144КЛ	220	340	56	262	442	3	1400	18,2	2	7044B
6-10468/600	600	730	60	353	782	4	630	50,2	1	
461/750	750	920	78	532	1302	5	600	110,8	2	
6-10465/1250	1250	1500	112	900	3000	8	200	387	1	

four-point contact ball bearings



Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
176252Л	260	480	90	490	760	5	81
И-828	340	480	65	299	488	3	40.9

matched angular contact ball bearings, DTD arrangement

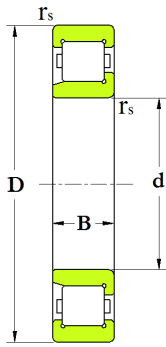


Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
666322Л1	110	240		364	380	4	36.7
666432Л	160	400	264	526	690	5	186

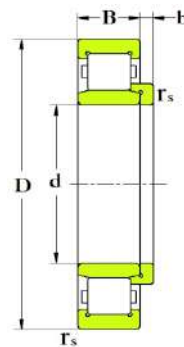


Single-row cylindrical roller bearings

with short cylindrical rollers and single-rib inner ring



Drawing1

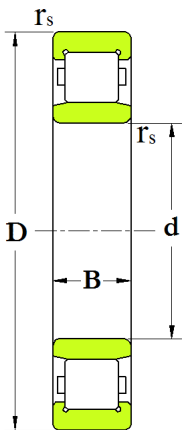


Drawing2

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Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number	International designation
	d	D	B	C (кн)	Co (кн)					
42305AE	25	62	17	40,2	23,2	1,1	1000	0,26	1	
42212	60	110	22	43	64	1,5	5600	0,84	1	
42314	70	150	35	102	151	2,1	4000	2,91	1	
42315	75	160	37	125	183	2,1	3600	3,48	1	
42616ЛМ	80	170	58	200	275	2,1	3200	7	1	
42620ЛМ	100	215	73	365	440	3	2400	13,5	1	
42322ЛМ	110	240	50	391	290	4	2400	12,15	1	
42624ЛМ	120	260	86	630	792	4	1900	23,5	1	NJ2324M
52624ЛМ	120	260	86(14)	630	792	4	1900	25,1	2	NU2324M+ HJ2324M
42626ЛМ	130	280	93	750	900	3	1800	31	1	
42234ЛМ	170	310	52	465	616	5	1800	18,3	1	NJ234M
92152M	260	400	65	627	1017	10	1500	31,7	1	
2092172ЛМ	360	540	106	1703	3158	12	500	98,8	1	
2092992M	460	620	95	1614	3435	10	500	91	1	
20929/500M	500	670	100	1775	3849	12	400	109	1	
50-30928/630ЛМ	630	780	112	1750	4713	10	700	126,6	1	
10928/710ЛМ	710	870	74	1550	3755	10		98,2	1	

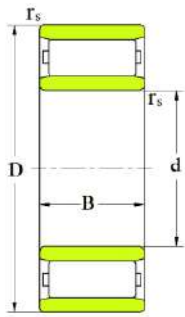
with short cylindrical rollers, without inner-ring ribs



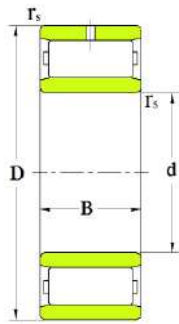
Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)	International designation
	d	D	B	C (кн)	Co (кн)				
32612	60	130	46	114	168	2,1	4300	2,8	
32617ЛМ	85	180	60	230	297	3	3000	8,2	
32322ЛМ	110	240	50	391	290	4	2400	11,9	
32634ЛМ	170	360	120	1100	1230	5	1300	63,2	NU2334M
32134ЛМ	170	260	42	212	275	3,5	2200	8,4	NU314M
32144M	220	340	56	400	495	3	1800	18,9	NU1044M
1032752ЛМ	260	440	82	795	810	4	800	50,6	
2032172ЛМ	360	540	106	1703	3158	4,7	500	92,7	NU2072E
1032980M	400	540	65	848	1544	3,7	630	42,5	
3032180M	400	600	148	2318	4407	4,7	400	147	
327/600M	600	830	150	2820	6147	4	500	254	
327/700M	700	930	160	3006	6986	5	600	300	



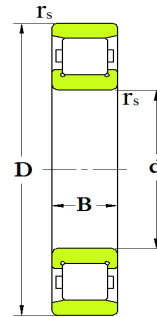
bearings with short cylindrical rollers, without outer-ring ribs



Drawing1



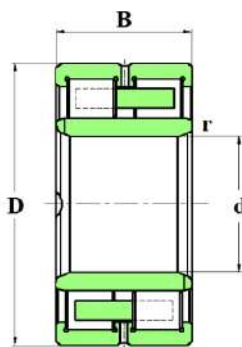
Drawing2



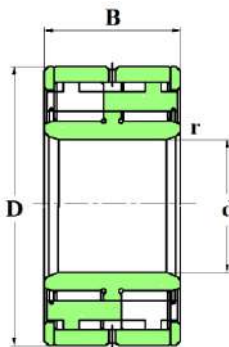
Drawing3

Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number	International designation
	d	D	B	C (kn)	Co (kn)					
102304M	20	52	15	30,8	17	0,6	3200	0,165	3	
102409M	45	120	29	106	69,5	2	1300	1,77	3	N320M
2320ЛМ	100	215	47	220	303	4	2800	8,48	3	
2322ЛМ	110	240	50	391	290	4	2400	12,5	3	
2324ЛМ	120	260	55	340	457	5	2200	15,5	3	
2326ЛМ	130	280	58	405	539	5	2000	18,5	3	
2740M	200	340	50	275	362	3,5	1300	19,8	3	
3004244M	220	400	144	1890	3230	3	500	86,3	1	
132756ЛМ	280	440	135	1735	3520	4,7	800	82,7	2	
2556M	280	500	130	1826	3306	4,7	1150	119	3	NU 2256
3004264	320	580	208	2820	3370	5	800	258	3	
3004264X	320	580	208	2820	3370	5	800	258	3	
2768M	340	530	133	1686	3366	4,7	630	114	3	
2032780M	400	650	145	2127	2640	8	315	196	3	
2002780M	400	650	145	2529	4516	6	320	193	3	
20329/500M	500	670	100	1470	2070	6	400	103	3	
30029/950	950	1250	224	5456	13974	7,5	160	757	3	

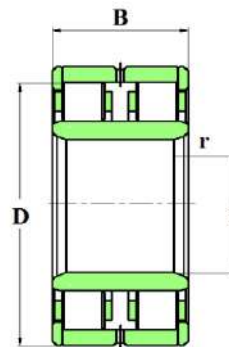
double-row bearings, with short cylindrical rollers, ribless inner ring, and metal solid cage



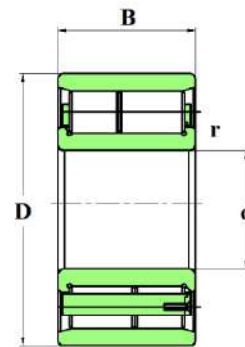
Drawing1



Drawing2



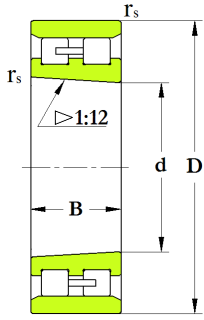
Drawing3



Drawing4

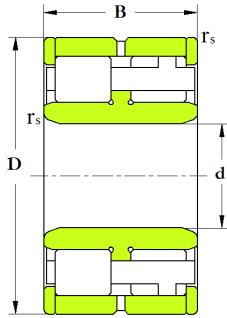
Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	B	C (kn)	Co (kn)			
NNU4930W-2URCS138	150	210	60	286	540	2	6,5	1
4262730ЛМ	150	250	100	535	860	2,5	20,3	2
70-782756M	280	460	200	2 278	4 680	6	150	3
42629/530M	530	710	180	3 187	7 929	4,7	219	4
20-42629/710XM	710	950	243	5 134	15 165	6	504	3

double-row bearings with short cylindrical rollers, ribless outer ring, and tapered bore

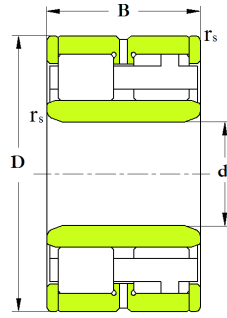


Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)
	d	D	B	C (ko)	Co (kn)			
3182156	280	420	106	1100	1100	5	1000	49,2
3182168	340	520	133	1621	3202	4,7	850	97,3
3182172	360	540	134	1650	3331	4,7	800	105
31821/500	500	720	167	2558	5512	6	630	213

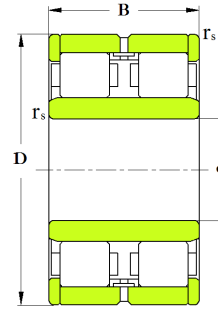
double-row bearings with short cylindrical rollers and flat thrust collars



Drawing1



Drawing2

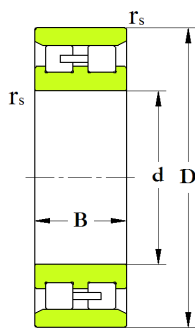


Drawing3

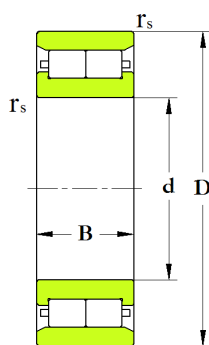
22

Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	B	C (ko)	Co (kn)			
5514128Л	140	210	95	310	580	2,3	12,5	1
426730ЛМ	150	250	100			3,5	20,4	3
262744XM	220	340	109	1878	3954	3	37,5	3
262768XM	340	480	145	3800	7500	3	86	2

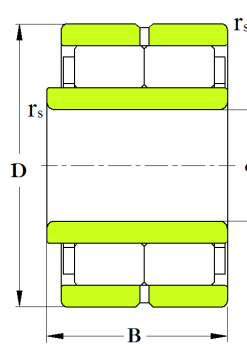
double-row bearings with short cylindrical rollers and flat thrust collars



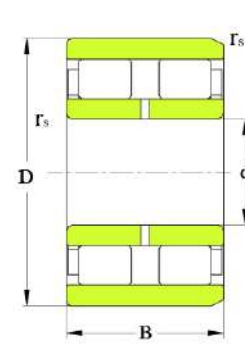
Drawing1



Drawing2



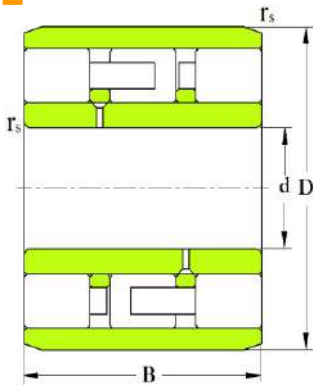
Drawing3



Drawing4

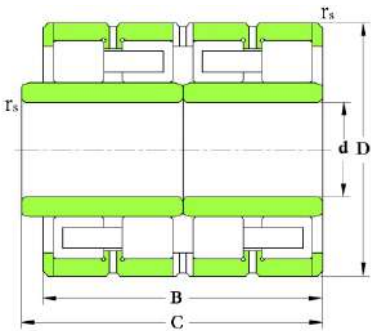
Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number
	d	D	B	C (kn)	Co (kn)				
782726M	130	230	110	900	998	2	2700	20,9	4
762726KY	130	230	160	919	1036	1,3	2600	22,3	3
3282168	340	520	133	1621	3202	4,7	850	100	1
32221/560M	560	820	195	4383	9170	6	550	377	2

three-row bearings with short cylindrical rollers

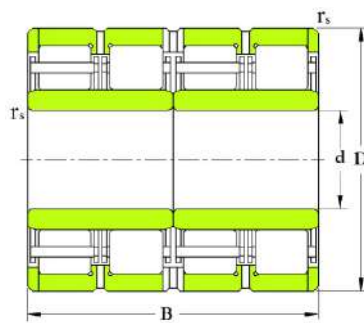


Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)
	d	D	B	C (kn)	Co (kn)			
66-462836ХЛМУ	180	406,42	224	1950	2521	3	1950	170

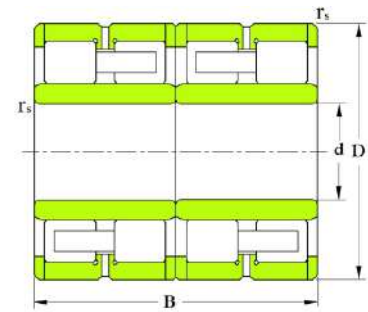
four-row bearings with short cylindrical rollers



Drawing1



Drawing2

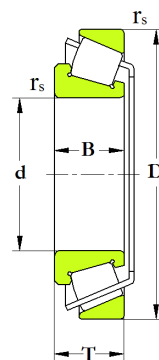


Drawing3

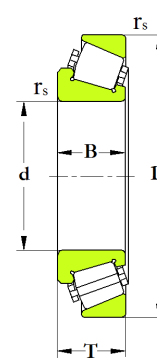
Type of bearing	Dimensions (mm)				Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	B	C	C (kn)	Co (kn)			
462736MY2	180	260	180	-	1000	2246	1	30,4	3
30-442860xm	300	500	360	-	4600	10200	4,7	304	2
36-442860xm	300	500	360	-	4600	10200	4,7	304	2
742782XM	410	560	400	420	5129	14689	2	296	1
742788XM	440	620	450	470	6180	17617	7,5	440	1
4427/500XM	500	720	530	-	9570	28610	6	744	2
532843	550	740	510	-	10600	31650	2	640	2
7429/571	571,1	812,97	594	-	11590	35347	6	1036,3	2
524238	761,425	1079,602	787,4	-	19840	56430	7,5	2395	2
20-4429/750XM	750	1130	690	-	18600	53800	20	2606	2
40-4428/750XM	750	1090	750	-	19720	57420	7,5	2550	2
40-4427/850X	850	1220	900	-	26532	88200	20	3655	2
20-4428/900XM	900	1220	840	-	27600	83300	7	3000	2

Tapered roller bearings

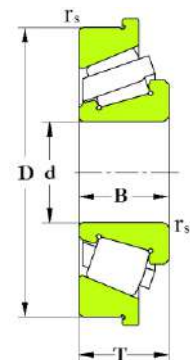
single-row bearings with tapered rollers



Drawing1



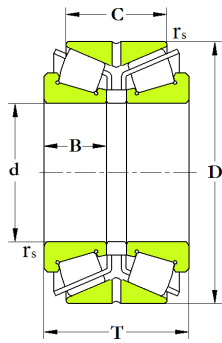
Drawing2



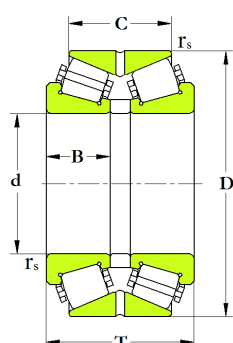
Drawing3

Type of bearing	Dimensions (mm)				Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number
	d	D	T	B	C (kn)	Co (kn)				
2007122A	110	170	38	38	235,8	372,6	2,5	1800	3,05	1
2007124M	120	180	38	36	211,4	332,4	2,5	2500	3,22	1
7624A	120	260	90,5	86	847	1195	4	1750	22,4	1
2007128M	140	210	45	42	283	455	2,3	2100	5,05	1
7530A	150	270	77	74	685	1057	3	1500	18,5	1
7532A	160	290	84	80	825	780	3	1600	22,2	1
7634M	170	360	127	120	1329	1952	3,7	1200	58	1
7536A	180	320	91	86	935	915	5	950	30,7	1
1027336M	180	380	97	88	887	1260	4	1100	46	1
7538A	190	340	97	92	959	1575	4	1200	35,4	1
2007938M	190	260	45	42	322	600	2,3	1600	6,54	1
2007938A	190	260	45	45	367,7	773,6	2,5	1100	6,84	1
2007140M	200	310	70	66	560	617	2,5	950	18,5	1
2007940M	200	280	51	48	403	786	2,5	1500	9,230	1
1027340M	200	420	107	97	1009	1500	5	1000	63	1
7244A	220	400	70	65	835	1139	3,7	1000	34,91	1
7544A	220	400	114	108	1296	2068	3,7	1000	58,4	1
2007144A	220	340	76	76	825	1468,6	4	1250	24	1
2007944M1	220	300	51	48	426	870	2,5	1400	10,14	1
2007144M	220	340	76	72	920	1620	3	1300	22,1	1
2007148A	240	360	76	72	788	1460	3	1100	26	1
2007948M	240	320	51	48	437	919	2,5	1280	10,9	1
2007152A	260	400	87	82	1000	1800	3,7	1100	36,5	1
7352M	260	540	109	102	1851	2590	6	800	109	2
2007952M	260	360	63,5	60	631	1229	2,5	1040	18,4	1
2007156M	280	420	87	82	1058	1911	3,7	900	38,9	1
2007960M	300	420	76	72	844	1720	3	960	30,9	1
2007160M	300	460	100	95	1248	2380	3,7	900	53,3	1
2007164M	320	480	100	95	1287	2527	3,7	500	59,1	1
2007968M	340	460	76	72	899	1943	3	960	34,2	1
7772KM	360	530	79,25	66	959	1636	4,7	400	51,12	1
1007976M	380	520	69	65	895	1734	3,7	400	40,8	1
7188XM	440	650	96,4	94	1 769	3 252	6,0	280	102	2
71/500M	500	720	110	100	2176	4296	6	250	136	2
10079/500M	500	670	85	78	1 365	2 950	4,7	500	77	2
77/520M	520	740	95	86	1561	3304	2,5	200	118	2
10079/530M	530	710	87	82	1555	3274	4,7	320	90,6	2
77/560M	560	820	140	120	2963	5788	7,5	160	229	2
6-10079/560M	560	750	91,5	85	1625	3542	5	350	105	2
71/600M	600	870	124	118	3082	6235	6	160	232	2
6-71/630XM	630	920	135	128	3402	7003	7,5	160	276	2
6-10079/630M	630	850	108	100	2385	5192	6	100	164	2
10077/670XM	670	1 090	192	185	6 179	11 716	7,5		630	2
10079/710M	710	950	114	106	2584	6108	6	200	210	2
6-10079/710XM	710	950	114	106	2584	6108	6	200	210	2
71/710M	710	1 030	150	110	4 173	8 855	7,5		397	2
10079/800M	800	1060	122	115	2139	7648	6	200	275	2
70678/800M	800	980	57	57	892	2280	3,7	960	92,4	2
10079/850M	850	1120	126	118	3442	8243	6	150	310	2
20078/850XM	850	1 030	106	98	2 607	7 359	4,7		175	2
10078/850M	850	1030	90	82	1942	5290	4,7	200	141,2	2
10079/900M	900	1180	124	122	3392,3	8809,1	6	180	340	2
71/900M	900	1280	190	170	6212	14060	7,5	96	687	2
10079/900XM	900	1180	124	122	3392,3	8809,1	6	150	340	2
6-10079/900AXM	900	1180	124	122	3425	8920	6	150	368,9	2
20078/1320XM	1 320	1 600	176	165	6 332	20 560	6		719	2
20079/1320XM	1 320	1 720	238	230	9 622	28 435	7,5		1431	2
10079/1800XM	1800	2300	257,5	218	11815	34 166	12		2360	2

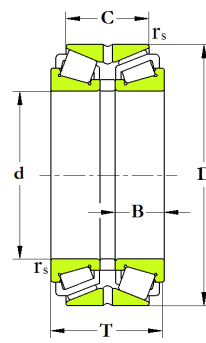
double-row bearings with tapered rollers



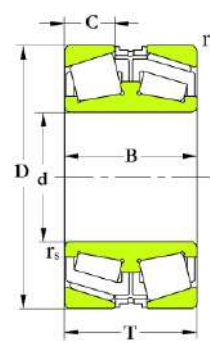
Drawing1



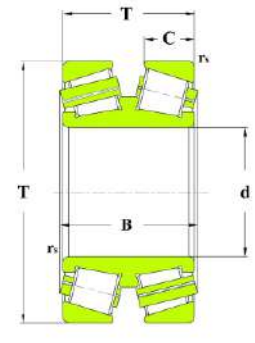
Drawing2



Drawing3



Drawing4

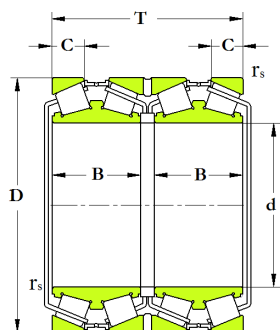


Drawing5

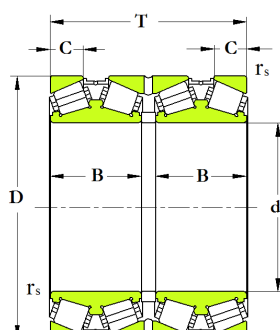
Type of bearing	Dimensions (mm)					Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	T	B	C	C (kn)	Co (kn)			
97720M	100	190	124,5	55,3	100	617	1029	2,5	14,8	1
97521M	105	190	117,25	50	96	578	990	2,5	13,74	1
2097724M	120	200	109,25	48	90	552	967	2,3	11,7	1
97526M	130	230	150	64	120	917	1770	4	25,4	1
2097726	130	210	109,25	48	90	598	1133	7	13,6	1
97530M	150	270	171,25	74	138	1174	2115	3	39,1	1
2097930M	150	210	84,25	36	70	347	763	2,3	8,41	1
2097730M	150	250	137,25	60	112	838	1513	2,5	25,8	1
97830M	150	254	144,25	63,5	110	839	1516	3,7	27,7	1
97732M	160	270	139,25	63	110	1001	1830	2,5	30,4	1
2097932M	160	220	86	38	70	380	510	2,5	10,4	1
2097732M	160	270	149,25	66	120	1000	1920	2,5	34,9	1
2097934M	170	230	86	38	70	455	575	2,5	12,2	1
2097136M	180	280	133,25	60	108	904	1754	2,5	27,9	1
2097936M	180	250	94,25	42	76	531	1123	2,3	13,2	1
2097736M	180	300	163,25	72	134	1206	2324	3	43,2	1
97736M	180	285	107,25	46	79,4	648	1112	2,5	22,1	1
2097738M	190	320	320	78	171	1259	2394	3	51,5	1
2097938M	190	260	94	42	76	460	1186	6	13,6	1
2097140M	200	310	151	66	123	1093	2282	2,5	39,2	1
2097740M	200	340	184	82	150	1581	3097	8	61,5	1
97741	205	320	150	67	110	1100	2200	4	41	1
97744ЛМ	220	340	99	45	75	768	1393	2,5	29,3	3
2097144M	220	340	164	72	130	1314	2615	3	47,05	1
2097944M	220	300	109	48	88	731	1739	7	21,4	1
2097744M	220	370	199	88	166	1765	3398	3,7	76,2	1
97746M	230	355	144	65	110	1158	2249	4,7	44,6	1
2097748M	240	400	209	95	168	1942	3844	3,7	96,3	1
2097148M	240	360	164	72	130	1351	3932	3	52,9	1
2097152M	260	400	185	82	146	1717	3660	3,7	75,6	1
2097152ЛМ	260	400	185	82	146	1717	3660	3,7	81,5	3
2097952M	260	360	133	60	109	1082	2460	2,5	38,3	1
2097752M	260	440	224	106	180	2411	4663	3,7	126	1
7097152M	260	400	103	44	78	790	1453	3	40,8	1
97752M	260	430	179	82	130	1527	2920	7,5	92,3	1
2097156M	280	420	188	82	154	1814	3822	3,7	82,5	1
847156ЛМ	280	420	129	130	44	1246	2734	3,7	61,8	4
2097960M	300	420	159	72	128	1446	3440	3	62,4	1
1097760M	300	500	204	90	152	2274	4332	12	142,2	1
97760M	300	460	214	95	178	2140	4764	3,7	119	1
97860M	300	440	139	58	100	1187	2354	4,7	60,7	1
97168M	340	520	179	82	135	2014	3981	4,7	118	1
1097768M	340	580	241	106	170	3099	5823	4,7	221,5	1
2097968M	340	460	159	72	128	1541	3885	8	70,9	1
97768XM	340	500	154	110	66	1709	3531	1,8	91,5	2
97770M	350	590	199	88	140	2798	5606	9,5	207	2
97772M	360	530	154	66	110	1775	3622	12	104	2

Type of bearing	Dimensions (mm)					Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	T	B	C	C (kn)	Co (kn)			
97172M	360	540	185	82	140	2087	4236	4,7	127	1
2097972M	360	480	159	72	128	1577	4067	3	74,4	1
1097776M	380	620	241	106	170	3120	6050	4,7	240	1
847976XLM	380	560	200	200	73			10	173	5
1097976M	380	520	149	65	112	1512	3403	3,7	84,4	1
1097780M	400	650	253	112	190	4060	7974	6	306	2
97180M	400	600	205	90	150	2 632	5 665	4,7	179	1
1097980LM	400	540	149	65	112	1570	3626	3,7	88,2	3
1097784XM	420	700	274	122	200	4553	9344	6	400	2
97184M	420	620	205	90	150	2652	5807	4,7	187	1
847790XM	450	680	180	180	58	2 710	6 330	6	270	4
1097992M	460	620	174	74	131	2119	5010	3,7	136	2
1097996M	480	650	179	78	130	2138	5155	4,7	151	1
10979/500XM	500	670	179	78	130	2341	5900	4,7	166	2
40471/500	500	720	217	185	75	2 368	5 346	6	260	4
971/500M	500	720	235	100	180	3 731	8 593	6	293	2
10979/530XM	530	710	188,5	82	136	2666	6548	4,7	193,4	2
10979/560XM	560	750	211,5	85	156	2787	7084	4,7	237,6	2
8471/560XM	560	820	240,5	242	80	3638	9001	6	440	4
971/560XM	560	820	258,5	115	185	4 716	1 065	6	414	2
971/600XM	600	870	268,5	118	198	5 284	12 470	6	497	2
10979/600XM	600	800	208,5	90	160	3450	9029	12	283	2
10979/630XM	630	850	240,5	100	182	4089	10385	16	362	2
10979/710M	710	950	238,5	106	175	4 430	12 217	6	445	2
971/710XM	710	1030	313,5	140	220	7154	17711	20	809	2
10979/800XM	800	1060	268,5	115	204	5383	15297	16	604	2
10979/850XM	850	1120	266	118	190	5901	16486	16	650	2
8471/900XM1	900	1280	358	320	135	10623	28024	20	1377	4
10979/950XM	950	1250	298	132	220	7392	20816	20	919	2

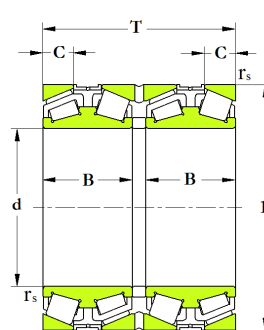
four-row bearings with tapered rollers



Drawing1



Drawing2

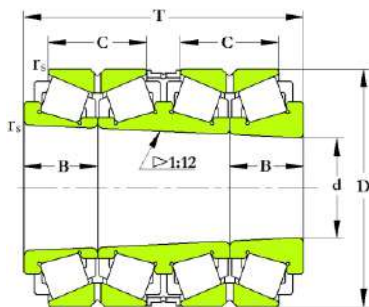


Drawing3

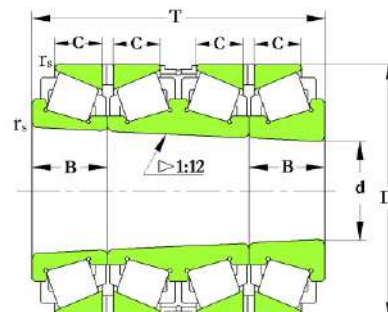
Type of bearing	Dimensions (mm)					Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	T	B	C	C (kn)	Co (kn)			
77741M	205	320	203,5	96	36	1350	2664	3	55,81	1
2077144LM	220	340	303,5	146,5	59	2253	5230	4	104	3
77748XM	240	410	268,5	128	50	2479	4955	3,7	144	1
2077148M	240	360	308,5	149	62	2313	5853	3	108,7	1
77752M	260	400	253,5	119	47	2048	4775	3,7	111	1
77752XM	260	400	253,5	119	47	2048	4775	3,7	111	1
77752XM	260	440	298,5	140	50	3077	6982	2,3	4,7	1
2077152M	260	400	343,5	167,2	71	2943	7321	3,7	151	1
77953XM	266,7	355,6	228,7	111	45	1570	4580	1,3	62,5	1
2077156M	280	420	343,5	165,5	71	3111	7645	3,7	159	1
6-787756XM	280	320	278,5	129	52	2635	6625	4	133	1
1077756M	280	460	322,5	154	62	3187	7067	4,7	193	1
77760M	300	500	348,5	165	64	3326	7351	4,7	259	1
77760XM	300	500	348,5	165	64	3326	7351	4,7	259	1
2097760XM	300	420	288,5	137	56	2600	7406	3	123	1
2077160M	300	460	388,5	188	82	3669	9529	3,7	238	1

Type of bearing	Dimensions (mm)					Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	T	B	C	C (kn)	Co (kn)			
2077164M	320	480	388,5	188	82	3783	10107	3,7	242	1
77766M	330	580	358,5	172	68	4619	9806	4,7	408	1
77766M	330	580	358,5	172	68	4619	9806	4,7	408	1
77168XM	340	520	323,5	155	63	3413	7843	4,7	233	1
6-77968XM2	343	457,1	252,5	122,2	49,2	2257	7081	3	116,8	1
77770XM	350	590	418,5	20	80	5024	11827	3,5	473	1
77172XM	360	540	323,5	155	60	3557	8715	4,7	247	1
1077776M	380	620	418,5	200	76	5442	12373	4,7	515	1
1077776XM	380	620	418,5	200	76	5442	12373	4,7	515	1
3077776XM	380	620	386,5	184	75	4555	10532	4,7	448	1
77779XKM	395	545	287,5	120	55	3460	9200	2,5	196	2
77880XM	400	540	278,5	130	48	2578	7479	3,7	177	1
77184ЛМ1	420	620	354,5	170	67	4547	11617	4,7	413	3
77184XM	420	620	354,5	170	67	4 550	11 614	4,7	412	3
777431XM	431,8	571,5	336,5	161,9	66,7	3819	11933	8,7	229,5	1
77788M	440	650	353,5	172	67	5074	12535	4,7	410	2
77788XM	440	650	353,5	172	67	5074	12535	4,7	410	2
77196M	480	700	418,5	200	80	6284	16620	6	544	2
77196XM	480	700	418,5	200	80	6284	16620	6	544	2
6-787196XM	480	700	418,5	196	80	6551	17891	6	528	2
777500XM	500	670	515	250	105	7810	25700	5	527	2
771500M	500	720	418,5	202	82	6397	17187	6	564	2
771500XM	500	720	418,5	202	82	6397	17187	6	564	2
10777500XM	500	830	568,5	272	104	10871	26460	7,5	1271	2
778520XM	520	950	578	282	118	13602	31013	7,5	1910	2
30777530XM	530	880	542	260	100	9982	23867	7,5	1320	2
777533XM	533	810	448	208	78	8023	19498	6	791	2
778540XM2	540	690	400	190	78	5 290	17 750	6	368,5	3
10777560XM	560	920	618	300	115	13500	32500	7,5	1600	2
10777560M1	560	920	618	300	115	13500	32790	7,5	1656	2
779600M	600	800	363	172,5	70	5909	18367	4,7	537	2
779600XM	600	800	363	172,5	70	5909	18367	4,7	537	2
777620XM	620	800	363	171,5	71	6038	18971	2,3	481	2
777620XЛМ	620	800	363	171,5	71	6038	18971	2,3	466	3
771630XM	630	920	513	245	94	10000	28013	7,5	1156	2
779630XM	630	850	424	200	78	7524	22754	16	690	2
777645XM	645	1030	558	273	113	15140	37230	10	1859	1
777647XM	647	1 030	558	273	113	14704	35 801	7,5	1031	3
777650XM	650	1030	558	273	113	14704	35801	7,5	1831	2
777660XM	660	1070	648	312	135	16472	40390	7,5	2233	2
778660XM	660	855	318	152	60	5472	15975	6	470	2
10777670XM	670	1090	708	342	136	18162	46856	7,5	2573	2
331752XM	730	940	500	238	98	12100	36000	8	898	2
777730XM	730	1035,05	755,65	365,12	155,57			20	2093	2
777750XM	750	1130	688	330	130	17290	49699	7,5	2480	2
10777750XM	750	1220	838	405	170	25119	68498	9,5	3917	2

four-row bearings with tapered rollers and tapered cylindrical inner-ring bores



Drawing1

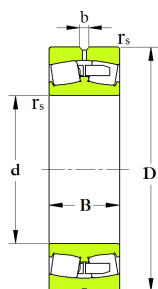


Drawing2

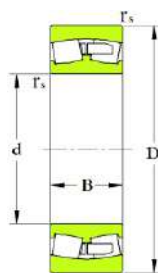
Type of bearing	Dimensions (mm)				Loading capacity		Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	T	C	C (kn)	Co (kn)			
477752XM	260	440	328,5	128	2759	6583	3,7	196	1
6-477752XЛМ	260	440	328,5	128	2759	6583	3,7	196	1
477756XM	280	420	278,5	106	2311	5875	3,7	141	1
6-577768XM	340	520	398,5	70	4005	10629	4,7	282	2
477780Л	400	540	278,5	104	2766	8222	3,7	174	1
6-577796XM	480	700	418,5	77	5443	15357	6	492	2

Spherical roller bearings

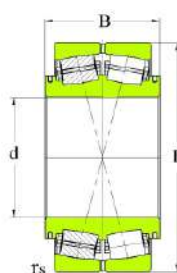
double-row spherical roller bearings



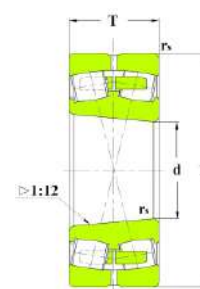
Drawing 1



Drawing 2



Drawing 3



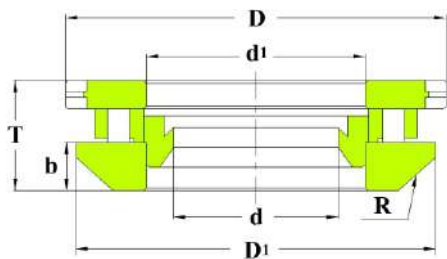
Drawing 4

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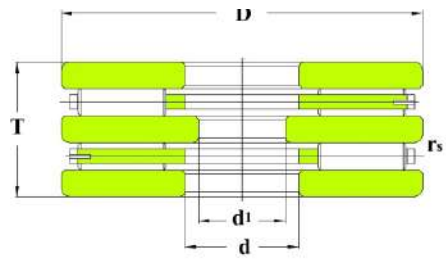
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Groove width (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number	International designation
	d	D	B	C (kn)	Co (kn)						
3608H	40	90	33	119	137	1,5	6,3	5000	1,0	1	22308MW33
3609H	45	100	36	143	169	1,5	6,3	4800	1,4	1	22309MW33
3610H	50	110	40	178	212	2,0	6,3	4300	1,9	1	22310MW33
3611H	55	120	43	210	252	2	6,3	3800	2,3	1	22311MW33
3512H	60	110	28	123	154	1,5	6,3	4000	1,2	1	22212MW33
3612H	60	130	46	242	292	2	6,3	3600	3,1	1	22312MW33
3613H	65	140	48	264	321	2,0	6,3	3200	3,6	1	22313MW33
3514H	70	125	33	151	196	1,5	6,3	3400	1,8	1	22214MW33
3514H	70	125	31	151	196	1,5	6,3	3400	1,8	1	22214MW33
3614H	70	150	51	313	396	2	8	3000	4,3	1	22314MW33
3615H	75	160	55	348	447	2,0	8,0	2800	5,3	1	22315MW33
3615H	75	160	55	348	447	2	8	2800	5,3	1	22315MW33
3516H	80	140	33	175	234	2	6,3	3000	2,2	1	22216MW33
3616H	80	170	58	392	507	2,0	8,0	2600	4,4	1	22316MW33
3517H	85	150	36	130	183	2	6,3	3600	2,8	1	22217MW33
3617H	85	180	60	270	365	3,0	8,0	2600	7,4	1	22317MW33
3518H	90	160	40	249	337	2	6,3	2600	3,5	1	22218MW33
3618H	90	190	64	483	639	3	8	2400	9,8	1	22318MW33
3520H	100	180	46	316	435	2	8	2400	5,1	1	22220MW33
3620H	100	215	73	617	833	3	11	2800	13	1	22320MW33
3003220H	100	180	60	385	615	2	8	2500	7,1	1	23220MW33
3622H	110	240	80	714	968	3	11	1900	18	1	22322MW33
3522H	110	200	53	411	588	2	8	2200	7,5	1	22222MW33
3524H	120	215	58	479	691	2	11	2000	9,3	1	22224MW33
3624H	120	260	86	814	1157	3	14	1700	23	1	22324MW33
3003124H	120	180	46	280	475	2,0	6,3	2700	4,5	1	23024MW33
3526H	130	230	64	563	832	3	11	1800	11,2	1	22226MW33



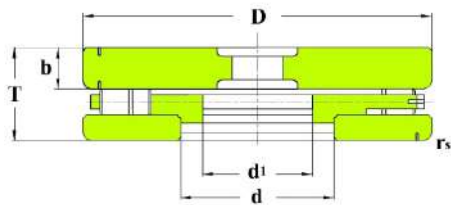
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Groove width (mm)	Allowable speed (min ⁻¹)	Weight (kg)	Drawing number	International designation
	d	D	B	C (kn)	Co (kn)						
3626H	130	280	93	921	1287	4	14	1600	29	1	22326MW33
3003126H	130	200	52	380	625	2	8	2500	6	1	23026MW33
3528H	140	250	68	639	954	3	11	1700	14,5	1	22228MW33
3628H	140	300	102	1100	1445	4	16	1500	36	1	22328MW33
3003128H	140	210	53	385	660	2	8	2300	7	1	23028MW33
3630H	150	320	108	1208	1670	4	16	1400	43	1	22330MW33
3003130H	150	225	56	440	800	2	11	2100	8,4	1	23030MW33
3530H	150	270	73	750	1131	3,0	14,0	1600	18,1	1	22230MW33
3532H	160	290	80	848	1294	3	14	1500	23,1	1	22232MW33
3632H	160	340	114	1360	1890	4	14	1300	51	1	22332MW33
3003132H	160	240	60	485	890	2,5	11	1900	10,3	1	23032MW33
3003732H	160	290	80	790	1350	3	14	1400	20	1	23132MW33
3634H	170	360	120	1527	3000	4	16	1300	60	1	22334MW33
3003134H	170	260	90	635	1100	2,5	8	1800	12	1	23034MW33
3534H	170	310	86	974	1501	4,0	16,0	1400	27,3	1	22234MW33
3536H	180	320	86	1006	1592	4	16	1300	30	1	22236MW33
3636H	180	380	126	1656	2345	4,0	22,0	1200	70,0	1	22336MW33
3636HK5	180	380	126	1656	2345	4	22	1200	71,5	1	
3003136H	180	280	74	715	1330	2,5	14	1700	16	1	23036MW33
3538H	190	340	92	1089	1669	4	16	1200	37	1	22238MW33
3638H	190	400	132	1815	2675	5,0	22,0	1100	84,0	1	22338MW33
3540H	200	360	98	1270	2016	4	16	1100	45	1	22240MW33
3640H	200	420	138	1945	2880	5	22	1000	93,5	1	22340MW33
3003140H	200	310	82	950	1550	2,5	14	1600	23	1	23040MW33
3003744H	220	370	120	1590	2770	4	16	900	55	1	23144MW33
3544H	220	400	108	1560	2400	4	16	950	62	1	22244MW33
3003144H	220	340	90	1030	1780	14	3	1300	31	1	23044MW33
3644H	220	460	145	2200	3250	5,0	22,0	950	128,0	1	22344MW33
3548H	240	440	120	1843	2968	22	4	800	87,0	1	22248MW33
3003748H	240	400	128	1620	3040	22	4	850	65	1	23148MW33
3003148H	240	380	92	1060	2160	16,0	3,0	1000	34,0	1	23048MW33
3552H	260	480	130	2055	3311	22	5	750	103	1	22252MW33
3003152H	260	400	104	1430	2550	16	4	900	50	1	23052MW33
3652H	260	540	165	2900	4514	22,0	6,0	800	190,0	1	22352MW33
3556H	280	500	134	2139	3519	22	5	700	123	1	22256MW33
3656H	280	580	175	3994	5685	22	6	700	235	1	22356MW33
3003756H	280	460	146	2070	3850	22	5	750	100	1	23156MW33
3003156H	280	420	106	1450	2860	16,0	4,0	800	55,0	1	23056MW33
3003160H	300	460	118	1660	3260	16	4	750	75	1	23060MW33
3003760H	300	500	160	2310	2750	22	5	700	130	1	23160MW33
3564H	320	580	150	3074	5030	22,0	5,0	600	185,0	1	22264MW33
3003164H	320	480	121	1790	3480	16,0	4,0	700	80,0	1	23064MW33
3003264H	320	580	208	3900	6950	22,0	5,0	600	260,0	1	23264MW33
3003168H	340	520	133	2110	4280	22,0	5,0	650	109,0	1	23068MW33
3572H	360	650	175	3480	5800	22,0	6,0	550	256,0	1	22272MW33
30003172H	360	540	134	2220	4710	22,0	5,0	600	115,0	1	23072MBW33
3003776H	380	620	194	3400	6650	22,0	5,0	500	240,0	1	23176MW33
3580H	400	720	180	4300	7100	22,0	6,0	500	342,0	1	22280MW33
3680H	400	820	243	6000	10100	22,0	8,0	450	610,0	1	22380MW33
3003180H	400	600	148	2700	5500	22,0	5,0	550	154,0	1	23080MW33
3003780H	400	650	200	3900	7650	22,0	5,0	450	270,0	1	23180MW33
40-538/1320X	1320	1950	500	28340	69542	15,0	25,0	550	5244	3	



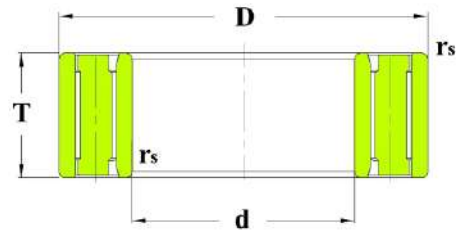
Drawing 4



Drawing 5



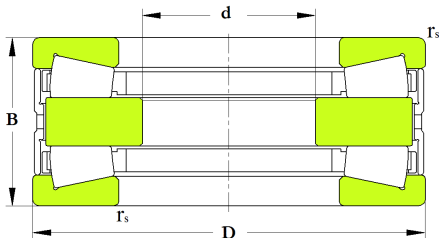
Drawing 6



Drawing 7

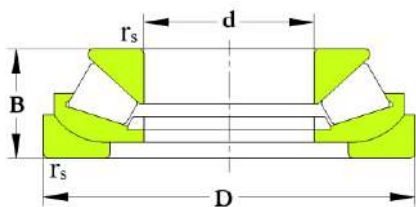
Type of bearing	Dimensions (mm)							Loading capacity		Radius of bevel (mm)	Weight (kg)	Drawing number
	D	D1	d	d1	T	b	R	C (kn)	Co (kn)			
6-132164X	480		320		74					10	50,3	7
889764XK2	900		320	260	290	115		15050	69980	15	1219,5	6
1397/870	997	972	845	870	89	44	921				93,6	4
597/750X	950		750	710	290			5200	10600	12	648	5

double-direction tapered roller thrust bearing



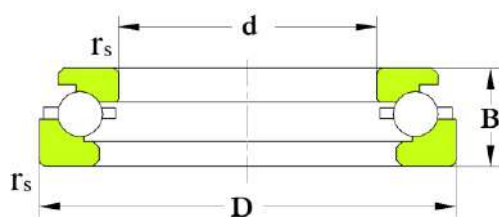
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
749794П	470	720	210	3414	17635	2,3	311

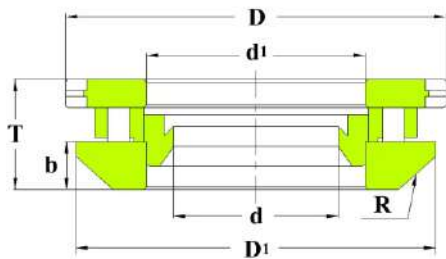
tapered roller thrust bearing with bottom washer



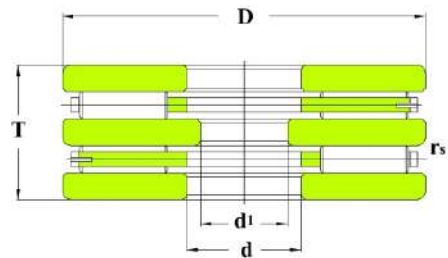
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
969452A	260	480	132	1273	3296	6	969452A

angular contact ball thrust bearings

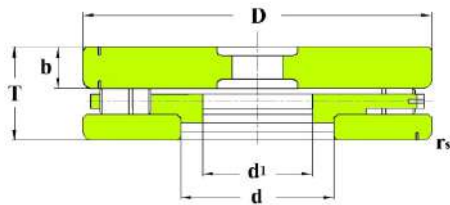




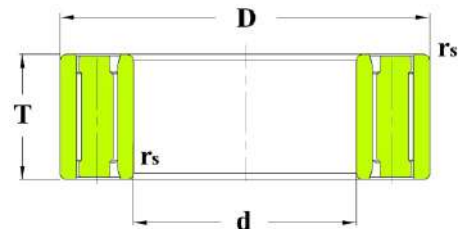
Drawing 4



Drawing 5



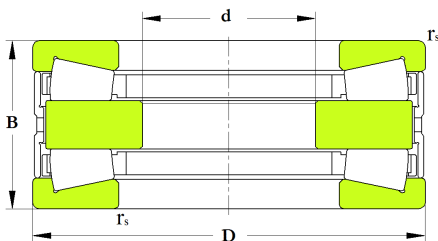
Drawing 6



Drawing 7

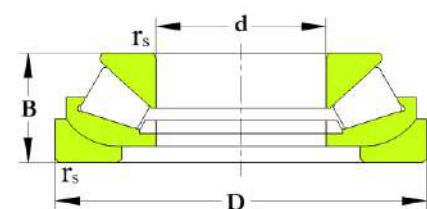
Type of bearing	Dimensions (mm)							Loading capacity		Radius of bevel (mm)	Weight (kg)	Drawing number
	D	D1	d	d1	T	b	R	C (kn)	Co (kn)			
6-132164X	480		320		74					10	50,3	7
889764XK2	900		320	260	290	115		15050	69980	15	1219,5	6
1397/870	997	972	845	870	89	44	921				93,6	4
597/750X	950		750	710	290			5200	10600	12	648	5

double-direction tapered roller thrust bearing



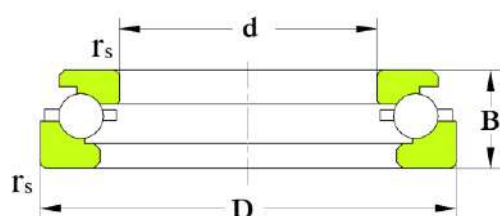
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
749794П	470	720	210	3414	17635	2,3	311

tapered roller thrust bearing with bottom washer



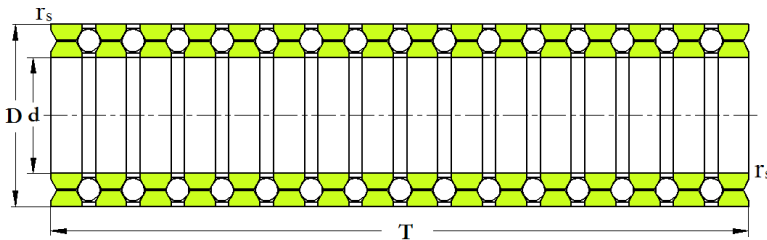
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
969452A	260	480	132	1273	3296	6	969452A

angular contact ball thrust bearings



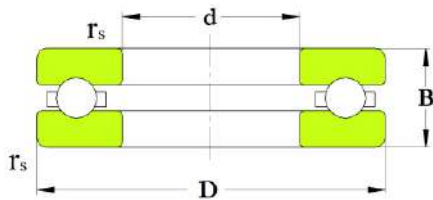
Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Weight (kg)
	d	D	B	C (kn)	Co (kn)		
168160	300	380	62	233	1044	2,3	16,2
168762	310	510	100	3214	4275	2,3	55,5
9168288	440	600	95	800	2870	6	71,2
71687/520Л	520	600	45	184	1090	2	18,2
71687/520Л1	520	600	45	184	1090	2	17,5
31688/630XK	630	780	112	4000	5190	4	96,4
91682/641XK	641	793	88,9	610	2630	6	79,6
1681/670X	670	800	105	790	3450	5	101
91682/670XK	670	900	140	7327	8137	6	183
1687/770X	770	1000	150	1290	8450	6	292
1688/770X	770	900	90	660	4530	5	93
91681/500Г	500	600	60	450	1780	3,5	31
91682/750X	750	1000	150	1380	6750	6	309
11689/1060Г	1060	1150	70	550	3300	4	74,5

multi-row ball thrust bearings

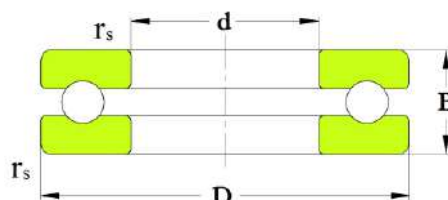


Type of bearing	Dimensions (mm)			Loading capacity		Radius of bevel (mm)	Allowable speed (min ⁻¹)	Weight (kg)
	d	D	B	C (kn)	Co (kn)			
128713	65	128	351,5	199,1	169,6	1,5	1800	24,2
128721K	105	165	505,5	272,5	300	1,5	1500	42,4
128726	130	205	788	465,7	530,2	2	1200	102

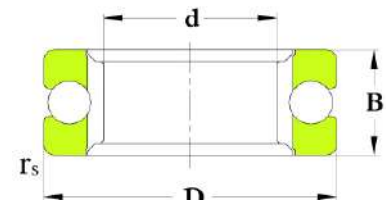
ball thrust bearings



Drawing 1



Drawing 2

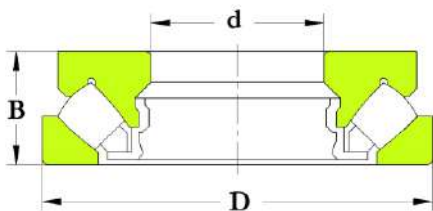


Drawing 3

Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Weight (kg)	International designation	Drawing number
	d	D	B	C (kn)	Co (kn)				
8316	80	140	44	159	340	2,5	2,8		1
8220	100	150	38	133	330	2	2,4		1
8320	100	170	55	238	480	2,5	5,1		1
8222	110	160	38	153	385	2	2,6		1
8226	130	190	45	203	500	2,5	4,2		1
8326	130	225	75	332	925	3,5	13,3		1
8230	150	215	50	229	635	2,5	6,5		1
8236	180	250	56	265	740	2,5	8,9	51236	1
8144Л	220	270	37	178	625	2	4,8		1
8244Л	220	300	63	325	1090	3	13,7	51244M	1
8152Л	260	320	45	238	885	1,5	8,23		1
81/275	275	330,4	54,3	1572		1,5	8,9		3
8156Л	280	350	53	319	1150	2,5	12,3	51156M	1
8164Л	320	400	63	371	1530	3	18,9		1
8272Л	360	500	110	740	3140	5	67,75		1

8292 Г	460	620	130	850	4170	6	100	51292F	1
81/670Г	670	800	105	479	3467	5	105		1
78682/710	710	950	109	1130	8230	6	184		2
5681/750	750	900	90	690	5120	4	96		1
98681/750	750	900	90	810	6100	4	110		1

spherical roller thrust bearings

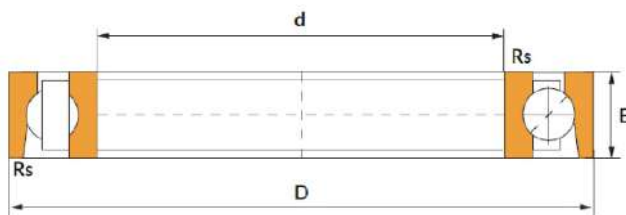


Type of bearing	Dimensions (mm)			Loading capacity		Bevel radius (mm)	Allowable speed (min ⁻¹)	Weight (kg)
	d	D	B	C (kn)	Co (kn)			
9039352	260	420	95	2220	3130	6	630	52,6
9039452X	260	480	132	2230	4790	8	500	112
9039364X	320	500	109	2880	4620	4,7	500	83,3
9039464X	320	580	155	4537	17432	7,5	450	181,7
9039280	400	540	85	133	342	3,7	630	56,5
9039388	440	680	145	4000	7320	8	500	196
9039488X	440	780	206	7271	28836	9,5	320	432
90394/500X	500	870	224	6220	15100	12	250	583
90394/710X	710	1220	308	17600	76500	18	220	1543

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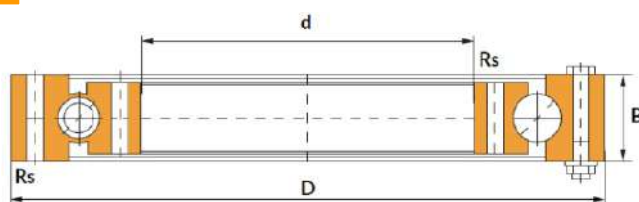
Slewing bearings

angular contact ball thrust bearing



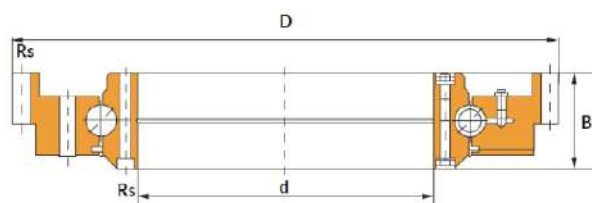
Type of bearing	Dimensions (mm)			Bevel radius (mm)	Weight (kg)
	d	D	B		
5-10468/670Г	670	820	69	3,7	74,6

four-point contact bearing

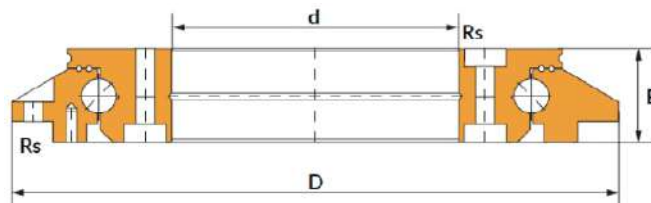


Type of bearing	Dimensions (mm)			Bevel radius (mm)	Weight (kg)
	d	D	B		
3687/1345K	1345	1625	90	2,3	353

four-point contact bearing



Drawing 1

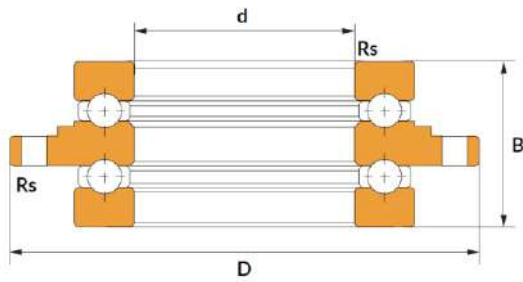


Drawing 2

Type of bearing	Dimensions (mm)			Bevel radius (mm)	Weight (kg)	Drawing number
	d	D	B			
3587/1380K	1380	1690	90	1,3	393	2
3587/1390K1	1390	1690	90	1,3	328	1

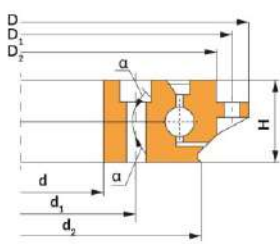


four-point contact bearing

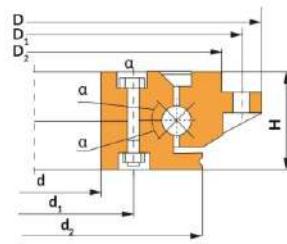


Type of bearing	Dimensions (mm)			Bevel radius (mm)	Weight (kg)
	d	D	B		
9089/980Y	980	1190	134	3,0	193

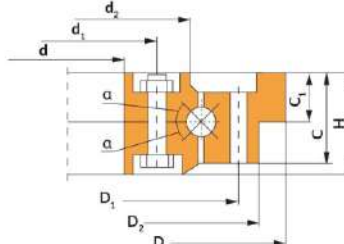
four-point contact bearing, special design



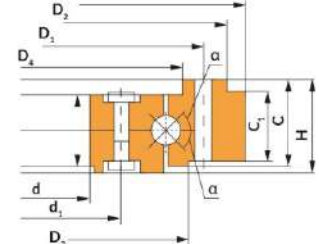
Drawing 1



Drawing 2



Drawing 3



Drawing 4

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Type of bearing	Dimensions (mm; α , degrees)						Weight (kg)	Drawing number
	d	D	H	d1	D1	α		
3887/1380K1 ^{*1*3}	1380	1690	90	1430	1650	45	303	1
3887/1380K ^{*1*4}	1380	1690	90	1440	1650	45	308	2
3887/1390K1 ^{*1*4}	1380	1690	90	1440	1650	45	328	3
3587/1920K1 ^{*2*3}	1820	2272	130	1895	2125	45	1055	4

Note: Bearings with 50XΦA steel rings heat-treated with high-frequency current

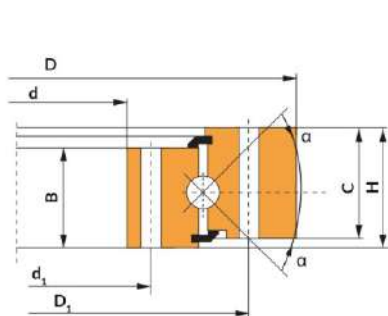
*1 with separating elements of polymer material

*2 with brass separating elements

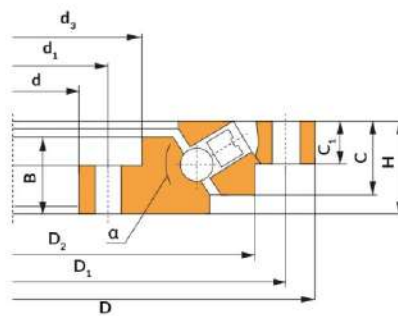
*3 with friction-moment requirements

*4 with operating-torque requirements

four-point contact bearing, special design



Drawing 1



Drawing 2

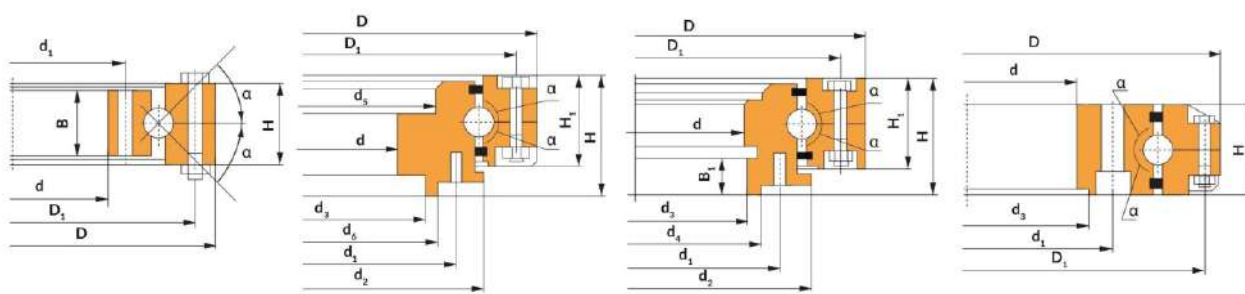
Type of bearing	Dimensions (mm; α , degrees)						Weight (kg)	Drawing number
	d	D	H	d1	D1	α		
1 OK441 ^{*1}	413	688	90	448	590	45	125,9	1
6587/550XY ^{*2}	550	860	50	590	810	45	94.2	2

*1 with 50XΦA steel rings and polymer separating elements, heat-treated with high-frequency current

*2 grease-filled



four-point contact bearing, special design



Drawing 1

Drawing 2

Drawing 3

Drawing 4

Type of bearing	Dimensions (mm; α , degrees)							Weight (kg)	Drawing number
	d	D	H	r	d1	D1	α		
3687/1345K ^{*1*3}	1345	1625	90	3.0	1390	1575	45	353	1
3687/1788 ^{*2*3}	1788	2050	98	—	1920	2020	45	400	2
3687/1860 ^{*2*4}	1860	2050	98	—	1920	2020	45	316.5	3
3687/1085 ^{*1*4}	1084.8	1300	70	—	1140	1272	45	180	4

Note: Bearings with rings heat-treated with high-frequency current, with polymer separating elements

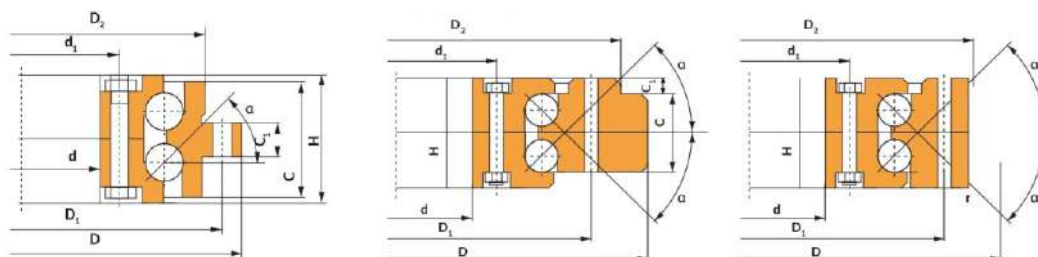
*1 ring material: steel 55

*2 ring material: steel 50XΦA

*3 with operating-torque requirements

*4 with friction-moment requirements

double-row angular contact thrust ball bearings, special design



Drawing 1

Drawing 2

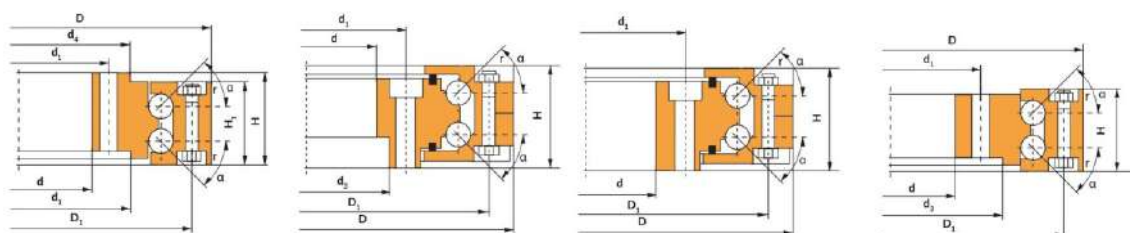
Drawing 3

Type of bearing	Dimensions (mm; α , degrees)						Weight (kg)	Drawing number
	d	D	H	r	d1	α		
3587/900	900	1110	122	1.5	930	36	201	1
3687/1300K1 ^{*1}	1300	1650	108	-	1545	45	514,6	2
13589/1600 ^{*2}	1600	2060	200	-	1985	45	1744	3

*1 with 50XΦA steel rings heat-treated with high-frequency current, with polymer separating elements and friction-moment requirements

*2 with 50XΦA steel rings heat-treated with high-frequency current, with brass separating elements

double-row angular contact thrust ball bearings, special design

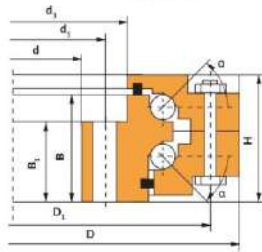


Drawing 1

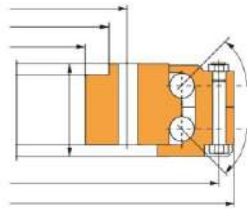
Drawing 2

Drawing 3

Drawing 4



Drawing 5



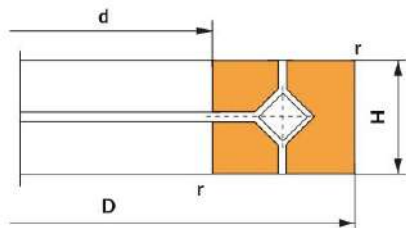
Drawing 6

Type of bearing	Dimensions (mm; α , degrees)							Weight (kg)	Drawing no.
	d	D	H	r	d1	D1	α		
3780/515Ю*1	515	735	85	5.0	550	700	45	103	5
3689/765*2	764.5	1000	75	3.0	840	965	45	143,5	1
3687/810*2	810	1000	75	3.0	840	965	45	119,5	1
3687/810K1*3	810	1000	75	3.0	840	965	45	119,5	1
3687/810K*4	810	1000	75	3.0	840	965	45	117,6	1
3687/1112*5	1112	1400	120	5.0	1194	1364	45	385,33	2
3687/1148*6	1148	1400	110	5.5	1194	1364	45	328	3
3687/1300K*7	1300	1650	108	-	1350	1545	45	330	4
3789/1696*8	1696,88	2200	165	-	1850	2150	45	1500	6

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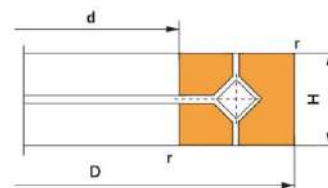
- *1 with parts in stainless steel and with polymer separating elements, grease-filled
- *2 with rings in steel 55 heat-treated with high-frequency current, with polymer separating elements and friction-moment requirements
- *3 with rings in steel 55 heat-treated with high-frequency current, with polymer separating elements, friction-moment requirements, and modified rib profile on inner rings
- *4 with rings in steel 55 heat-treated with high-frequency current, with polymer separating elements and friction-moment requirements, without groove in inner rings
- *5 with 50XΦA steel rings heat-treated with high-frequency current, with polymer separating elements and friction-moment requirements
- *6 with carburized-steel rings, polymer separating elements, and friction-moment requirements
- *7 with 50XΦA steel rings heat-treated with high-frequency current, with polymer separating elements and friction-moment requirements
- *8 with 50XΦA steel rings heat-treated with high-frequency current, with brass separating elements and friction-moment requirements

crossed roller bearings, nonstandard



Type of bearing	Dimensions (mm; α , degrees)				Loading capacity (kN)		Weight (kg)
	d	D	H	r	C (kN)	Co (kN)	
7669266*1	330	457	63	2.0	280	500	25,8
7669892Y*1	460	610	64	2.1	593	970	63,6
7669292*1		620	73	3,5	593	970	69,0
76692/560*1	560	750	85	3,5	732	1490	110,0
76692/670*1	670	900	103	3,5	1218	2240	169,0
6697/900*1	900	1120	82	3,5	1303	2850	195,0
6997/1366K1*2	1366	1689,6	71	5,0	1036	3550	393,0
6697/1800X*1	1800	2180	122	6,0	3029	7750	1018,0

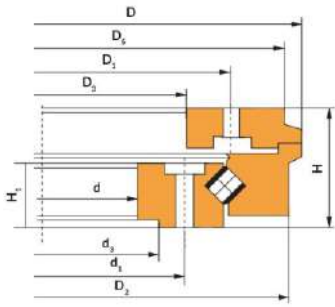
crossed roller bearings, special design



Type of bearing	Dimensions (mm; α , degrees)					Loading capacity (kN)		Weight (kg)
	d	D	H	d1	D1	C (kN)	Co (kN)	
6997/695	695	980	78	735	945	750	4580	152.5



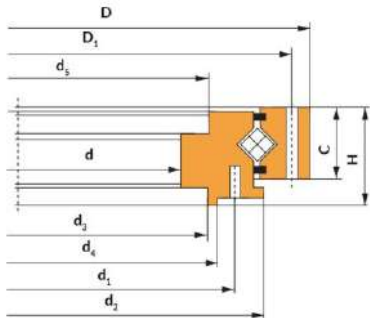
crossed roller bearings, special design



Type of bearing	Dimensions (mm; α , degrees)					Loading capacity (kN)		Weight (kg)
	d	D	H	d1	D1	C (kn)	Co (kn)	
6997/1554K		164	1695	1800	15081	12422	1118	

Note: Nonseparable rings in 50X Φ A steel

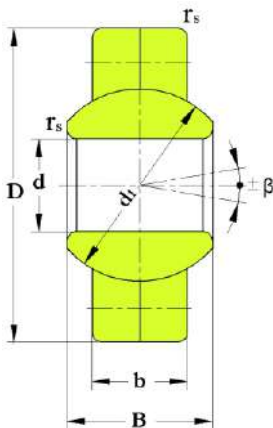
crossed roller bearings, special design



Type of bearing	Dimensions (mm; α , degrees)					Loading capacity (kN)		Weight (kg)
	d	D	H	d1	D1	C (kn)	Co (kn)	
6997/1788K	1788	2959	98	1920	2020	1179	10986	405

Note: Nonseparable rings in 50X Φ A steel

Spherical plain bearings

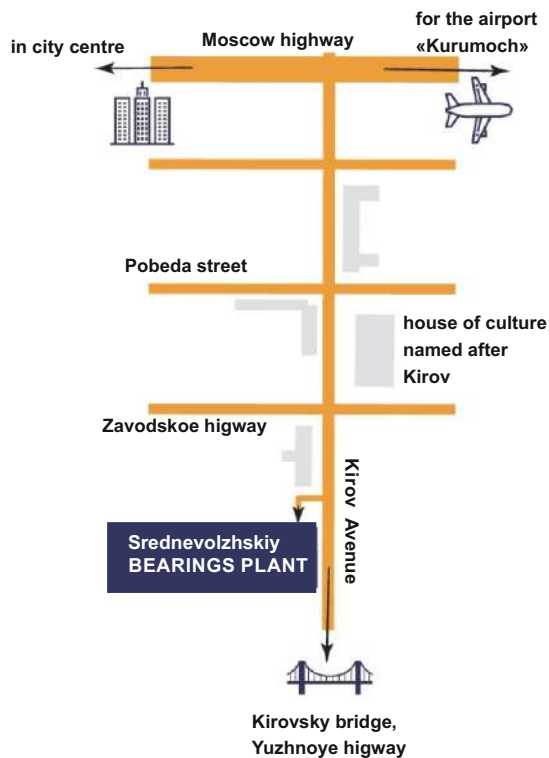


Type of bearing	Dimensions (mm)					Traveling angle	Loading capacity (kN)		Bevel radius (mm)	Weight (kg)
	d	D	B	b	d1		C (kn)	Co (kn)		
ГШСЛ60	60	105	63	40	67	17	279	1 398	1	2,1
ГШСЛ70	70	120	45	70	77	16	330	1 653	2,5	3,0
ШСЛ90	90	130	50	60		5	490	2 450	2	2,82
ШСЛ120	120	180	70	85		6	950	4 750	2	8,09
ШСЛ130	130	200	52,0	95		16	821	4 105	3	8,93
СШРТ420	420	560	190	160	490	± 4	23520	39200	4	147

Contacts

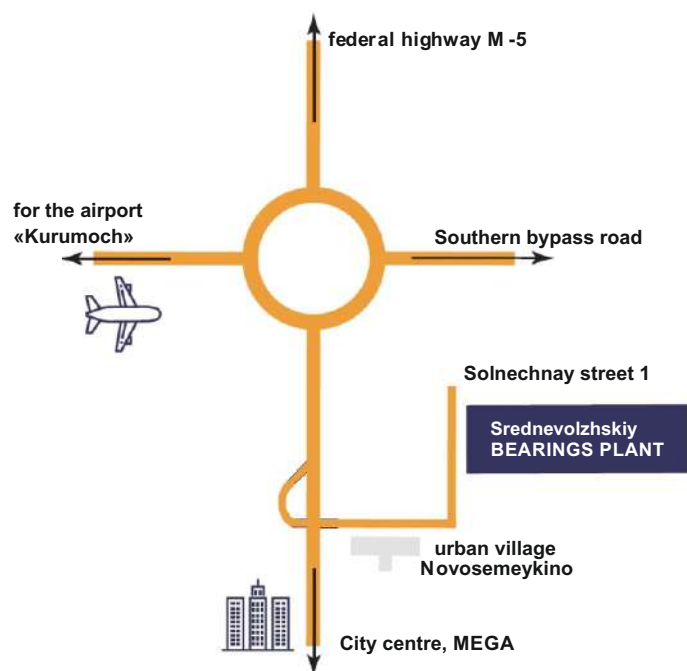
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