Dear Sirs!

The group of companies Samara Bearing Plants, the biggest Russian manufacturer of bearings. welcomes all our present and future partners.

SPZ GROUP specializes in the production and sales of ball and roller bearings. Good production facilities and unique equipment enable to make bearings with sizes from 50 mm to 4000 mm and weight 200 g – 11000 kg.

The know how of the company is the development and production of large size bearings, including big split bearing, non-standard bearings and equivalents of foreign bearings.

We supply products to over 20 counties in Europe, Asia and America. There is a permanent demand for SPZ bearings in Russia and CIS markets.

The challenge of the company - to be an absolute leader in the market due to the balance of high quality and competitive price of SPZ GROUP bearings.

To achieve the aim we invest in the new products, develop technological potential, employ qualified engineers to introduce new methods of metal working and bearing manufacture.

We consistently work on in the improvement of bearing quality and after-sale service.
Out technical staff provide consultations on the performance and maintenance of bearings based on the specific conditions of our customers.

We continue to update production facilities and sustain efforts to reduce production costs. These measures, I believe, will lead to a wider selection of bearings and further development of mutually beneficial relationships.

Faithfully

Alexander Shvidak
President,
SPZ GROUP

Contents

Introduction

Samara Bearing Plants are well known in Russia and worldwide. Our products are used in all sorts of mechanical units, literally everywhere. Within the past years we considerably expanded the range of our products with dozens of new types of bearings introduced new year. This catalogue contains the description of currently manufactured bearings.

The catalogue is first of all addressed to those who are buying or intend to buy our products.

Our long-term partners very well know our company and have no problem in getting in touch.

However, the situation in the country has changed dramatically over the past 15 years. New companies emerged, new people came in business, new relationships established. Thus the catalogue will be useful not only to our old partners, but to everyone who needs bearings.

Some of the bearings can be seen only in a microscope, others with a naked eye at a distance

about 1 km . These examples give an idea of our capabilities. Ask any bearing you need, and we'll do more than offered in the catalogue.

The catalogue contains information about 900 types of bearings that are produced or planned to be produced by SPZ. To some extent the catalogue can be useful for designing mechanical units or machine tools, however we recommend designers not to rely entirely on this information, but refer to technical guides. Please note that information in the catalogue is given for reference only, misprints, if any, cannot be the reason for claims.

In the catalogue you will find a number of foreign brands, e.g. FAG, SKF, Timken. We can supply a Russian equivalent of such bearings that are used in your equipment. The list of these bearings is expanding, but if you have nor found the necessary type here, this should not stop you. Just contact us and propose to start producing any type of foreign brand bearings.

We want to draw attention of the users of large / heavy bearings to a unique bearing 538/1320XK.

This is a double-row spherical roller bearing with two-piece inner and outer rings. This bearing is presently used in steel mills converters, but can also perform in other heavy duty environments. The main advantage of this bearing is that its design permits to replace the failed part within a few hours – feature that cannot be overestimated where idle time is costly.

The following characteristics may vary in accordance with the customer requirements:

Tolerance Class:

- 0 — normal accuracy;
- 6 — improved accuracy;

- 5 — high accuracy.

Bearings with crowned rollers and races (marked with letter M after bearing number) and increased load ratings marked with A letter. Such bearings have better characteristics compared to basic version.

Cage material:

- Л – brass;
- Б - tinless bronze;
- Д – aluminum alloy;
- Е – plastic.

Material of bearing parts:

- hardened steels (ШХ15…);
- carburized steels (20Х2Н4А);
- full hardened steels with regulated hardening (ШХ4…).

Structural modifications of basic version (letter К after bearings number). We can manufacture non-standard bearings to suit customer requirements.

We can satisfy customer's special requirements to vibration, lubrication, closed versions of bearings.

Radial clearance, friction torque, category correspond to Russian standards.

General Information About Bearings

Bearing is an important component in machines and electrical devices where mechanical parts move with reference to each other. Bearings are widely used in machine building and electro-technical industries. The principal function of bearing is to reduce friction between the parts of the device, which in turn leads to the reduction of wear.

Ordinary bearings consist of three main components: inner and outer rings, cage, and rolling elements. Their smooth surfaces reduce friction between mechanical parts of the machine or device, subject to axial and radial loads.

Anti-friction bearings can be classified according to the following features.

1. The direction of the received loads with reference to the shaft axis (radial, angular contact or thrust loads).
2. The shape of rolling elements (balls, rollers, combinations).
3. Number of rolling elements rows (single-, two-, four- or multiple rows).
4. Self-aligning ability (self-aligning and not self-aligning).
5. Protection of the inside of bearing (with or without shields and seals).
6. Method of bearing installation into a housing (with a locking groove on outer ring, outer ring flange, adapter or withdrawal sleeves).

Ball bearings are most widely used today, their application varying from huge power facilities supports to PC disc drives. They are able to endure permanent medium radial and axial loads except shock loads.

Roller bearings are for the most part used in large and heavy facilities generating high radial loads (i.e. in roll supports of rolling mills).

Rolling elements are cylindrical, and contact zone represents a line, due to which load is distributed over a larger area, enabling the bearing to withstand higher loads. Roller bearings can be subdivided into tapered-, cylindrical-, needle- and spherical roller bearings.

40% of the total production of roller bearings fall into tapered roller bearings that are mainly used in automobiles (transmission, chassis, steer, engine), railway cars, agricultural machines etc.

Needle bearings have a very small diameter of rollers and can be used in small devices, for instance in flexible connections, textile equipment, household appliances and machines.

Spherical bearings can compensate misalignment without reducing the life, and withstand heavy duty operation. Spherical bearings are often used in industrial equipment (pumps, crushers etc).

Marking on Bearings

Marking is applied on bearing faces by stamping, etching or electrically. On the outside surface of outer ring marking is applied by electrochemical pickling.

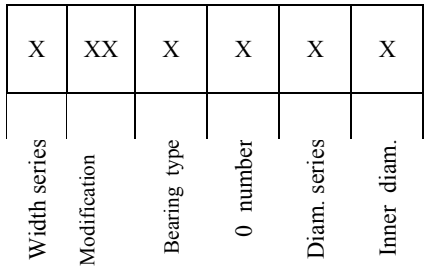
Marking sometimes is not applied on the rings of miniature and precision bearings. It is shown in the attached documents and on the package. Bearings have the main marking and additional marking.

The main marking describes the basic bearing design:

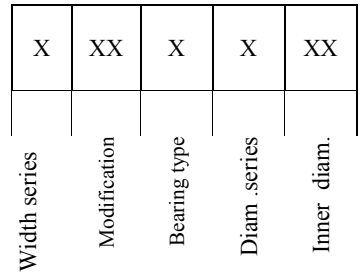
- rings and rolling elements made of bearing steel ШХ15;
- tolerance class 0 according to GOST 520;
- cage in the basic version complies with industrial standards.

The order of characters in the marking corresponds to one of the following patterns.

Bearings with ID up to 10 mm
except ID 0.6; 1.5; 2.5 mm



Bearings with ID from 10 mm
except ID 22; 28; 32; 500 mm and higher



Inner Diameter Indication

Inner diameters from 1mm to 9 mm , expressed by a whole number, are marked with the number equal to the nominal diameter. Inner diameters 10, 12, 15, 17 mm – with numbers 00, 01, 02, 03 accordingly. Inner diameters from 20 mm to 495 mm divisible by 5 are marked with a two digit number obtained from dividing the nominal diameter by 5.

Inner diameters 0.6, 1.5, 2.5, 22,28, 32 mm and diameters from 500 mm to 20000 mm are marked with a number equal to a nominal diameter separated by slash from the rest characters.

For instance, 10079/560.

If the inner diameter below 10 mm is not a whole number, it is marked as the nearest whole number followed by "5". If the inner diameter lies between 10 …19 mm and other than 10, 12, 15, 17 mm, it is marked with the nearest of the above numbers, followed by "9".

Inner diameters from 20 mm to 495 mm , expressed with a fraction or a whole number, but not divisible by 5, are marked as approximate quotient of ID value by 5. The obtained number is followed by "9".

Additional Marking

Additional characters can be marked to the left and to the right o the main marking.

Additional characters on the right are written in capital letters, characters on the left are separated from the main marking with a hyphen.

Additional characters and their order describe special features as follows.

Category – letter A or B indicating special requirements fixed in technical specification for A, B, C bearing categories,or in design documents. Category C is not marked. Characters in front of letters A or B are indicative of additional technical requirements.

Friction torque – digit 1, 2, 3 indicating normal friction torque. In the marking of angular contact and single row radial bearings with standard radial clearance, radial clearance is marked with letter M.

Radial clearance – digit 1, 2, 3 indicating radial clearance group according to GOST 24810.

Tolerance class – 0, X, 6, 5, 4, 2 indicating the limits of dimensional deviations, shapes and position of bearing surfaces with reference to each other. Above characters are arranged in the order of improvement of tolerances. Letter Y after one of the above characters indicates a better tolerance of cross face width of tapered roller bearings.

Bearing design – letter H indicating double row spherical roller radial bearing with a circular groove and lubrication hole (GOST 5721, GOST 24696, GOST 24850), or radial bearing with short cylindrical rollers and dimensions according to GOST 5577, single- or double direction thrust ball bearing with the dimensions of aligning washer according to GOST 7872.

Increased load rating of bearing is marked with letter A.

Components material: (digits correspond to modification number):

Ю, Ю1… – all or some of bearing components are made of stainless steel;
Х, Х1… - rolling elements and / or ring(s) are made of carburized steel;
Р, Р1… - bearing components are made of heat-resistant (high-speed) steel;
Г, Г1… - black metal cage;
Б, Б1… - tinless bronze cage;
Д, Д1… - aluminum alloy cage;
Е, Е1… - cage made of plastic ;
Л, Л1… - brass cage;
Я, Я1… - bearing parts made of seldom used materials (hard ceramic alloys, glass etc);
Н, Н1… - rolling elements and / or ring (s) made of modified high-temperature steel (except double row spherical roller radial bearings);
3, 31… - bearing components made of ШХ steel with alloying additions (calcium, cobalt etc.)

design modifications – К, К1… digits correspond to modification number. For cylindrical roller bearings "К" indicates pressed steel cage. For ball angular contact bearings К, К6, К7 are specified by GOST 832;

crowned roller bearings – М, М1 (digits correspond to modification number);

special technical requirements – У, У1 … - stringent requirements to roughness, running accuracy etc. Digits indicate requirement number.

tempering temperature - Т, Т1…Т4 – indicate stabilizing temperature (160º, 180º, 200º, 250º, 300º accordingly)

lubricants – С1, С2…С30 – lubricants for closed type bearings;

vibration level – ІІІ, ІІІ1, ІІІ5. Higher digits indicate lower vibration levels.

Some of the needle bearings are marked with three factors, their values indicative of ID, OD and width of bearing in mm. The letter in the end indicates cage material, letters in front – modification, for example:

К – single row needle roller radial bearing without rings: К25х30х10Д;

ИК – single row needle roller radial bearing with cage: ИК15х27х16;

ИКВ - single row needle roller radial bearing without inner ring, with lubrication groove and hole, with cage: ИКВ45х55х16Е;

КК - double row needle roller radial bearing without rings: КК20х26х34Е;

КВК - single row needle roller radial bearing without rings for piston pin supports: КВК12х16х13Г;

КСК - single row needle roller radial bearing without rings for crank mechanism supports: КСК18х24х13Г;

АК - single direction needle roller thrust bearing, cage assembly: АК28х45х3Е.

The digit in front of letters indicates tolerance class of rollers, for example 3КК30х35х46Е.

Needle tracks (РИП) have a different marking, for example РИП 2010, where the first two digits stand for roller diameter (2 mm) and the last ones – for the width of bearing (10 mm).

Bearing Type Indication

The fifth and sixth characters in the marking together with the fourth character define the type of bearing.

The marking list of the main types of SPZ bearings corresponds to the following

000 – radial ball bearing, complete, with retainer – main type. For example, 206, 1000907;

001 – two-row spherical ball bearing with cylindrical bore, complete, with retainer – main type.
For example, 1007;

002 – single-row radial bearing with short cylindrical rollers with ribs on inner ring, complete. with cage – main type. For example, 2206;

003 – double-row spherical roller radial bearing with ribs on inner ring and asymmetrical rollers – main type. For example,3518.

007 – single-row tapered roller bearing with contact angle up to 16º, complete, with cage – main type. For example, 7520;

008 – thrust ball bearing, complete, with retainer – main type. For example, 8703;

009 – thrust roller bearing, complete, with cage – main type. For example, 9102;

012 – single-row radial bearing with short cylindrical rollers, one rib on outer ring.
For example, 12115;

013 – double-row spherical roller radial bearing with adapter sleeve – main type.
For example, 13530;

023 – single-row spherical roller radial bearing. For example, 23508;

024 – single-row needle roller bearing without inner ring and cage, with ribs.
For example, 4024106;

027 – angular contact tapered roller bearing with taper angle 20º - 30º. For example, 27313.

039 – angular- contact spherical roller bearing. For example, 9039434;

042 – single-row radial bearing with short cylindrical rollers, ribs on outer ring and one rib on inner ring. For example, 42212.

046 – single- row angular contact ball bearing with contact angle 26º. For example, 46204;

050 – single- row radial ball bearing with locking groove on outer ring. For example, 50206;

053 – double-row spherical roller radial bearing with symmetrical rollers, no ribs on inner ring.
For example,53608.

060 – single-row radial ball bearing with one shield. For example, 60204.

066 – single-row angular contact ball bearing with contact angle 36º. For example, 66312;

073 – double-row spherical roller bearing with withdrawal sleeve - main type.
For example, 73544.

074 – single row needle roller bearing, without cage, with ribs on outer ring.

For example, 4074106.

080 - single row radial ball bearing with two steel shields. For example, 80213.

083 - double-row spherical roller bearing with seals – main type. For example, 83720;

084 - single row needle roller bearing, without inner ring and cage, with ribs.
Inch bearing. For example, 4084110;

093 - double-row spherical roller bearing with withdrawal sleeve, non-standard dimensions – main type. For example, 93624.

102 – single –row radial bearing with short cylindrical rollers, two retaining snap rings, no cage.
For example, 102308.

106 – four-row angular contact ball bearing. For example, 106901.

113 – double-row spherical roller bearing with tapered bore – main type. For example, 113556.

126 – single-row angular contact ball bearing with two-piece inner ring and three point contact.
For example, 126805;

128 – multiple-row ball bearing with contact angle 60º. For example, 128726;

129 – thrust roller bearing in retaining band . For example, 129316.

150 – single-row radial ball bearing with locking groove on outer ring and one shield.
For example 150213.

153 – double-row spherical roller radial bearing with symmetrical rollers and tapered bore.
For example, 153532;

154 – single-row needle roller radial bearing without inner ring, with cage and thick outer ring with one rib. For example, 154901;

160 – single- row radial ball bearing sealed on one side. For example, 160202;

170 – single-row radial ball bearing with filling slot, locking groove on outer ring.
For example, 170314;

176 – single-row angular contact ball bearing with two-piece inner ring and four point contact.
For example, 176222;

180 – single-row radial ball bearing sealed on both sides. For example, 180305;

224 – double-row bearing combination (balls and short cylindrical rollers) with roll instead of inner ring. For example, 4224703;

244 – single- row needle roller radial bearing with cage and ribs on outer ring.
For example, 4244910;

254 - single- row needle roller radial bearing with cage and no inner ring. For example, 254703.

256 – double-row angular contact ball bearing sealed on both sides. For example, 256907.

263 – angular contact spherical roller bearing. For example, 263215;

284 - single-row needle radial bearing with flanged outer ring and ribs on inner ring.
For example, 284913;

292 – single-row radial bearing with short cylindrical rollers with ribs on outer ring and no inner ring. For example, 292220;

330 – double-row radial ball bearing with roll instead of inner ring. For example, 330902;

348 – single-row angular contact ball bearing with shields and two-piece inner ring.
For example, 348702;

353 – double-row spherical roller bearing with symmetrical rollers, no ribs on inner ring, with adapter sleeve. For example, 353613;

464 – single row-needle roller bearing, cage assembly. For example, 464916.

524 – single –row needle roller bearing without inner ring, with cage. For example, 524706.

614 – single-row needle roller bearing without inner ring, ribs on outer ring and barrel shape of base surface. For example, 614706;

664 – double-row needle roller bearing, cage assembly (can have a roll). For example, 664706.

704 – single –row needle roller bearing without inner ring, with closed end (universal joint).
For example, 704702;

714 – double-row needle roller bearing with two cages and ribs on outer ring. For example, 6714912;

753 – double-row spherical roller radial bearing with symmetrical rollers, withdrawal sleeve and no ribs on inner ring. For example, 753614;

804 - single –row needle roller bearing without inner ring, with closed end (universal joint)
different design. For example, 804907;

819 – single direction thrust roller bearing with increased OD of outer ring. For example, 819705.

824 - single-row needle roller bearing without inner ring, ribs on outer ring and barrel shape of base surface. For example, 824904;

864 - single-row needle roller bearing, cage assembly. For example, 864710;

904 - single –row needle roller bearing without inner ring, with closed end (universal joint).
For example, 904902;

953 - double-row spherical roller radial bearing with symmetrical rollers, withdrawal sleeve and no ribs on inner ring, non-standard dimensions. For example, 953613;

984 - double-row needle roller bearing with two cages and ribs on outer ring.
For example, 6984919;

999 – thrust roller bearing without rings. For example, 999702.

Suitabiliti of Bearings for Varions Operating Conditions.

Table:

√ Good ⊕ Satisfactory ◊ Bad ∅ Unsuitable

Designation	Design	Suitability								
		Radial load only	Axial load only	Combined loads	High speed	Rigidity	Low noise running	Misalignment compensation	Fixed bearings	Floating bearing
Radial ball bearings		√	⊕	⊕	√	⊕	√	◊	⊕	⊕
Radial ball bearings spherical		√	◊	◊	√	◊	√	√	⊕	⊕
Radial bearings with short cylindrical rollers	Single-row, no ribs on outer (inner) ring, two ribs on inner (outer) ring	√	∅	∅	√	⊕	√	◊	∅	√
	Single-row, two ribs on outer ring, one rib (no ribs) on inner ring and side plate	√	⊕	⊕	√	√	⊕	◊	⊕	⊕
	Double-row, no ribs on outer (inner) ring, with ribs on inner (outer) ring	√	∅	∅	√	√	√	∅	∅	√
Spherical roller radial bearings		√	⊕	√	⊕	√	⊕	√	⊕	⊕
Radial bearings with long cylindrical or needle rollers		√	∅	∅	⊕	√	⊕	∅	∅	√
Angular contact ball bearings	Single-row	⊕	⊕	√	√	⊕	⊕	◊	√	⊕
	Duplex , “0” match pattern, face-to-face or back-to-back arrangement	⊕	⊕	√	⊕	⊕	⊕	∅	√	⊕
Tapered roller angular contact bearings		⊕	⊕	√	⊕	⊕	⊕	◊	√	∅
Thrust (angular contact) ball bearings	Single / double direction	∅	√	∅	⊕	⊕	◊	∅	⊕	∅
	Single/double direction with aligning seat washers	∅	√	∅	⊕	⊕	◊	⊕	⊕	∅
Cylindrical roller thrust bearings		∅	√	∅	⊕	⊕	◊	∅	⊕	∅
Spherical roller angular contact bearings		∅	√	⊕	⊕	√	◊	√	⊕	∅

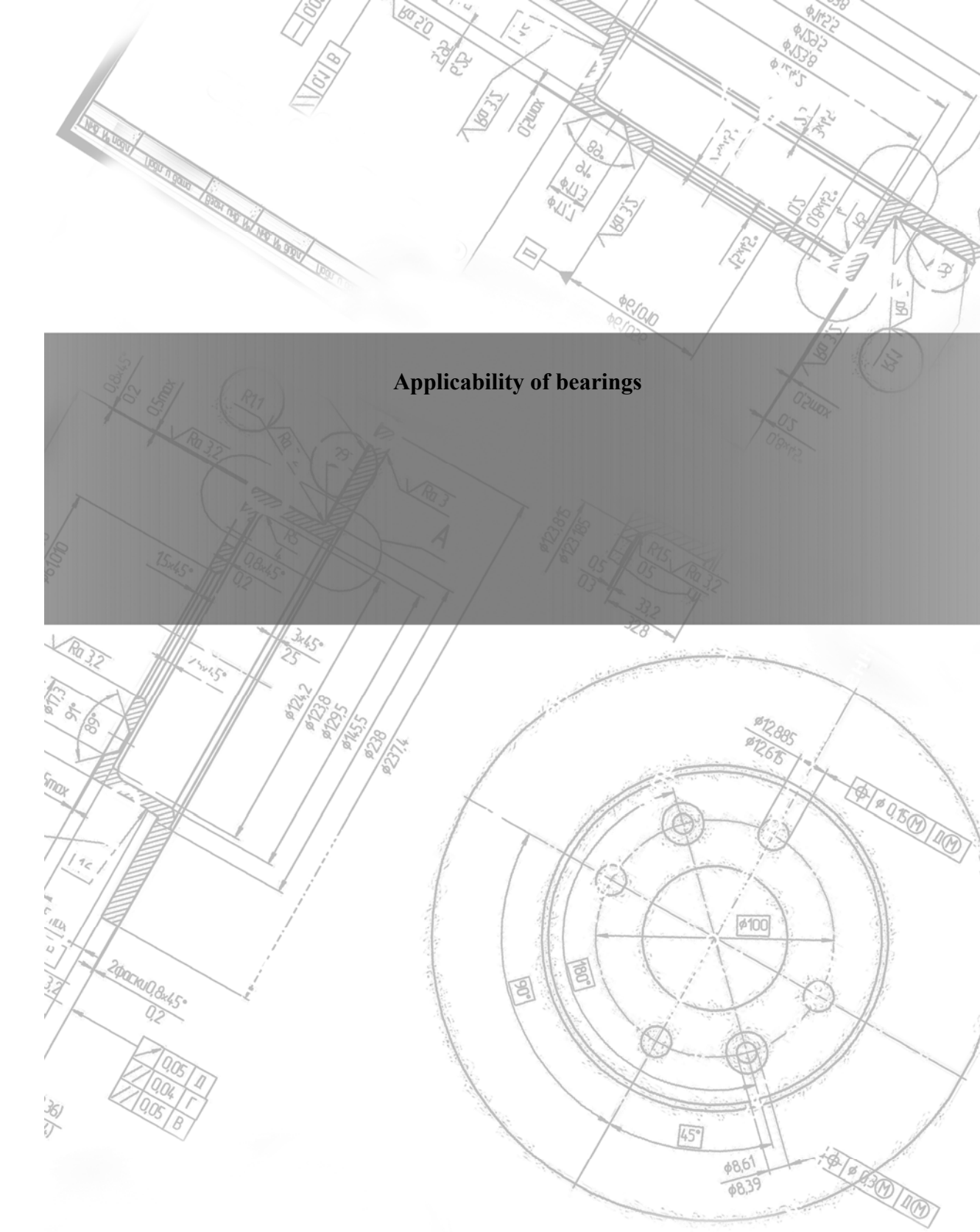
Velocity

Permissible rotational speeds for different types of lubricants (oil or grease) shown in the catalogue cannot be applied at any loads. The limiting factor is temperature, which depends upon friction in bearing and effectiveness of heat removal.

Maximum revolution values may sometimes be higher than those mentioned in catalogue due to the change of loading mode and the use of a different lubricant.

Comparative velocity of main bearing types is shown in the table.

Designation	Series	Max. rotational speed, rpm
Ball bearings:		
– single-row radial	0000	1
– double-row spherical	1000	0,9
Roller bearings:		
– with short cylindrical rollers	2000	1
– double-row spherical	3000	0,7
Angular contact ball bearings	6000	1
Tapered roller bearings:		
– single-row	7000	0,7
– double-row	97000	0,6
– four-row	77000	-
Thrust ball bearing	8000	0,3



Applicability of bearings

Agricultural machines bearings

Designation	International analog	Page
7205A	30205	83
7206A	30206	83
7207A	30207	84
7208A	30208	84
7209A	30209	84
7210A	30210	84
7211A	30211	84
7212A	30212	84
7214A	30214	85
7216A	30216	85
7218A	30218	85
7219M	30219	85
7224A	30224	86
7230A	30230	86
7304A	30304	83
7305A	30305	83
7306A	30306	83
7307A	30307	84
7308A	30308	84
7309A	30307	84
7310A	30310	84
7311A	30311	84
7312A	30312	84
7314A	30314	85
7315A	30315	85
7317	30317	85
7506A	32206	83
7507A	32207	84
7508A	32208	84
7510A	32210	84
97511A3	32211	93
7512A	32212	84
7514A	32214	85
7515A	32215	85
7517A1	32217	85
7518AK1	32218	85
7519A	32219	85
7520A	32220	85
7605A	32305	83

Designation	International analog	Page
7606A	32306	83
7607A	32307	84
7608A	32308	84
7609A	32309	84
7610A	32310	84
7611A	32311	84
7612A	32312	84
7613A	32313	85
7614A	32314	85
7615A	32315	85
7712A		84
7809M		84
27307	31307	84
67512A1		89

Automotive bearings

Designation	International analog	Page
WAZ		
7207A	30207	84
7705У	32205	83
7707У	32207	83
7804У		83
7805У		83
7807У		84
2007108A	32008X	84
UAZ		
7510A	32210	84
7606A	32306	83
7607A	32307	84
7608A	32308	84
127509K		84
57707АУ		93
KamAZ		
7214АУ	30214	85
7216A	30216	85
7516A	32216	85
7517A1	32217	85
7518АК1	32218	85
7610A	32310	84
7613A	32313	85
7615A	32315	85
7723A		86
7815A		85
27310НА	31310	84
27911A		84
Ural		
7310A	30310	84
7312A	30312	84
7515A	32215	85
7516A	32216	85
7610A	32310	84
2007124A	32024X	86

GAZ		
7208A	30208	84
7214AУ	30214	85
7305A	30305	83
7509A	32209	84
7510A	32210	84
7515A	32215	85
7605A	32305	83
7606A	32306	83
7607A	32307	84
7609A	32309	84
7610A	32310	84
7806A		90
27307	31307	84
27308AKУ	31308	84
27606A		83
27607A		84
807813A		84
987910K		91
KrAZ		
7219M	30219	85
7312A	30312	84
7518AK1	32218	85
7519A	32219	85
7718AK		85
27313	31313	85
BelAZ		
7312A	30312	84
7318A1	30318	85
7522A	32222	86
7524A	32224	86
7618A	32318	85
7622A	32322	86
7624A	32324	86
77/560M		88
2007144M	32044X	86
2007156M	32056X	87
6-10079/710M1		88
10079/710M1		88
10079/900A		88
10079/900AXM		88
10079/560		88
10077/560M		88

MAZ		
7520A	32220	85
7712A		84
7614A	32314	85
7612A	32312	84
7524A	32224	86
7220A	30220	85
6-7518A	32218	85
6-7515A	30215	85
6-7215A	30215	85
6-7212A	30212	85
6-7205A	30205	83
6-7204A	30204	83
6-27616A		85
6-27313	31313	85
2007120A	32020X	85
27312	31312	84

Railway bearings

Designation	International analog	Page
БТКС-897826		80
897830ХМУ		80
897830ХМУ2		80
897830Х1МУ		80
TBU 120		80
C-49988		80
4-R-4199		80
7536A	32236	80
2007144ЛМ	32044	80
2007140M	32040	80
30-42726E2M		80
30-232726E2M		80
SP 130		80
SP 140		80
97826КМ		80

Metallurgy (roll – and converter bearings)

Designation	International analog	Page
2032172JIM	NU2072	40
2077140M		100
2077144JIM		100
2077148M		100
2077156M		100
2077160M		100
2097136M		94
2097144M		94
2097148M		94
2097152M		94
2097152JIM		94
2097156M		94
2097726M		93
2097730M		93
2097732M		93
2097736M		94
2097740M		94
2097748M		94
2097752M		94
2097952M		94
2097960M		94
2097968M		94
2097972M		94
3003264XH	23264	66
3077776M		100
3282168		45
36-6442144XM		51
9019464K		119
9889468		115
71/600M		88
927/700M		41
771/500M		101
71/630M		88
777/533M		101
777/620M		101
777/647M		101
777/650M		101
777/660M		101
777/750M		101
779/600M		101
971/560M		95

Designation	International analog	Page
971/600		95
971/710		95
977/520M		95
977/560M		95
4427/500X		56
4427/950X		56
8471/560XM		97
10079/530M		88
6-10079/710M1	BT1B332890/HA1	88
6-10079/900A	BT1B328214/HA5	88
10079/1800M1		88
10777/500M1		101
10777/560M1		101
10777/750M		101
10979/530M		95
10979/600M		95
10979/710KM		95
10979/800M		95
10979/850M		95
20078/1320M		88
20329/500M		40
30031/600XH	230/600	66
30777/530M		101
40471/500M		97

Oil and Gas Industries

Designation	International analog	Page
Single row tapered roller bearings		
7352M1	30352	87
7538M	32238	86
7544M	32244	87
10079/710M1	BT1B332890/HA1	88
10079/500		87
1007976M		87
2007972M		87
10078/850M		88
7618A	32318	85
10079/900	BT1B328214/HA5	88
Double row tapered roller bearings		
97519		93
97744JIM		94
7097152M		94
7097156M		94
2097952M		94
97746M		94
97748M		94
2097972M		94
Tapered roller thrust bearings		
19744XV	351148B	119
19752XV		119
19760XV		119
30928/630AM	N38/630	41
30928/630JIM		41
Cylindrical roller thrust bearings		
889736		115
889752X1		115
889852X1		115
Angular contact ball bearings		
168762		108
31688/630XK		108
91682/670XK		108

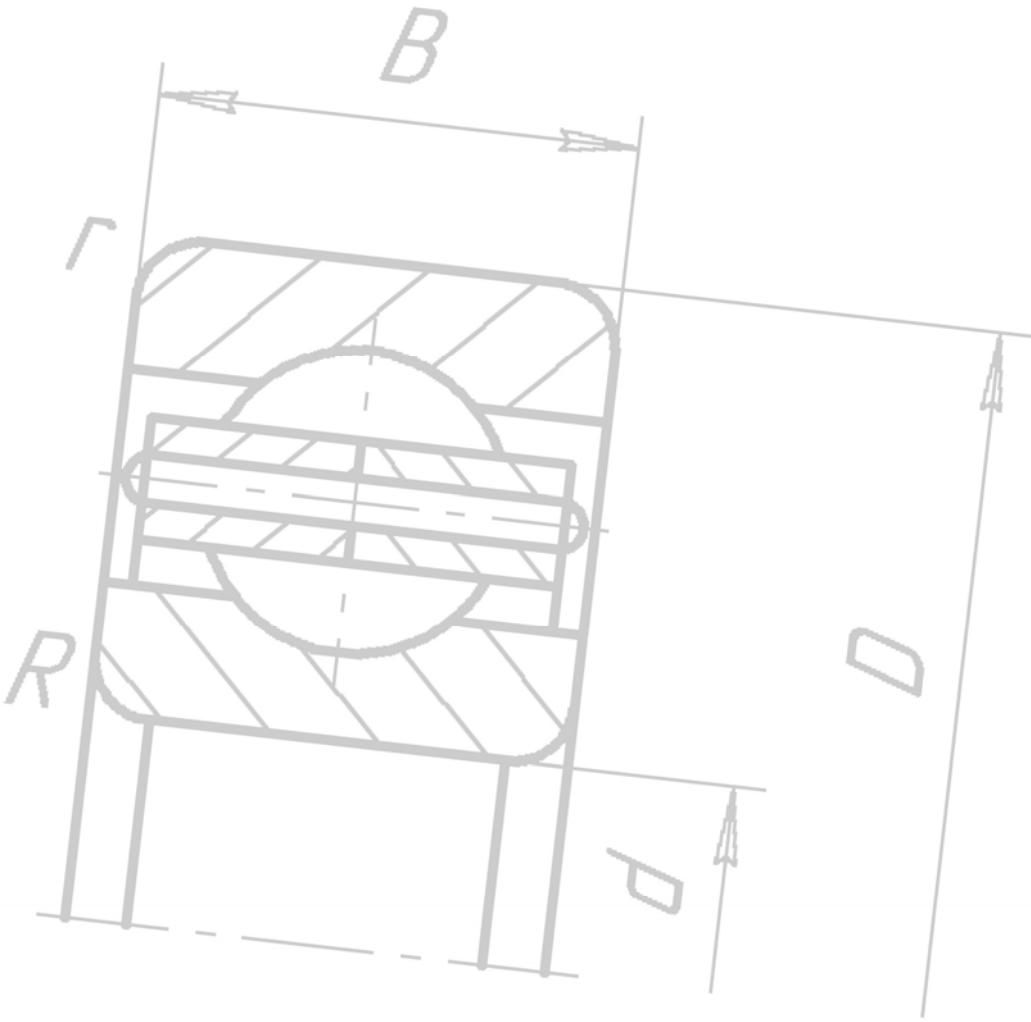
Designation	International analog	Page
Bearings with short cylindrical rollers		
672878M		40
1032980M		40
2092992M		41
21821/560		48
21821/670		48
Angular contact roller bearings		
969961		117

Cement Industry and Mining

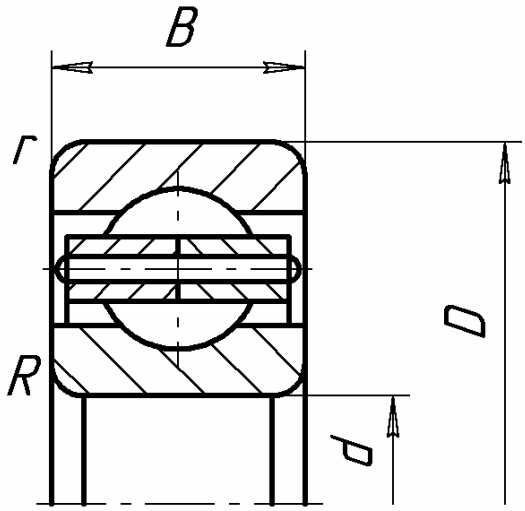
Designation	International analog	Page
Cement production industry		
3656	22356	66
77196M		101
77748M		100
9009580X		115
9019464K		119
97172		94
777/750M		101
9019476K		119
971/710		95
9889468		115
1077776M		100
1097776JIM		94
3077776M		100
9889492X		115
32221/560M		44
3282168		44
10777/560M1		101
30777/530M		101
70678/800M		89
30031/530	230/530	66
30-30031/600XH	230/600	66
10979/710KM		95
Coal mining industry		
7138		86
7317	30317	85
7604	32304	83
97521		93
2007114	32014	85
2007928	32928	86
2097938		86
2097948		87
3182172K		48
1027328M	31328	86
1027336M	31336	86
1097760M		94
1097768M		94
2007124A	32024	86

Designation	International analog	Page
2007156M	32056	87
2097136M		94
2097144M		94
2097152M		94
2097730M		93
2097944M		94
2097960M		94
2097968M		94
2097972M		94
31821/500		48
10079/560		88
6-10079/710KM	BT1B332890/HA1	88
6-10079/710M1	BT1B332890/HA1	88
6-21821/560		48
6-21821/670M		48
6-27313	31313A	85
7184M		87
7219M	30219	85
7220A	30220	85
7224A	30224	86
7318A1	30318	85
7352M1	30352	87
7522A	32222	86
7524A	32224	86
7526A	32226	86
7536A	32236	80
7616A	32316	85
7618A	32318	85
7620A	32320	85
7622A	32322	86
7624A	32324	86
77/560M		88
7718AK		85
889752X1		115
97168		94
97512A1		93
97515A		93
97518A1		93
97520A		93
97526		93
97530M		93

Deep groove ball bearings

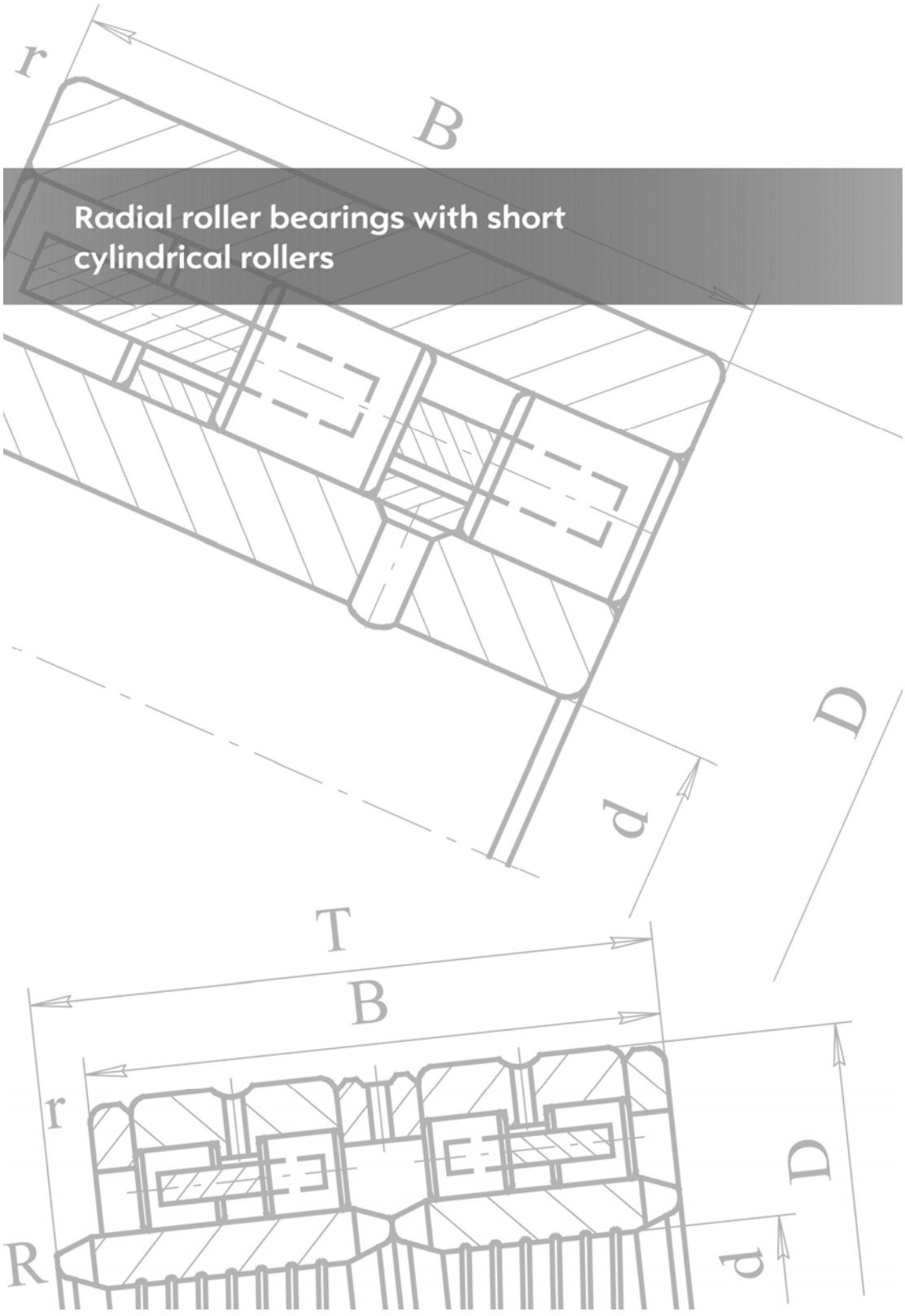


Single row ball bearings

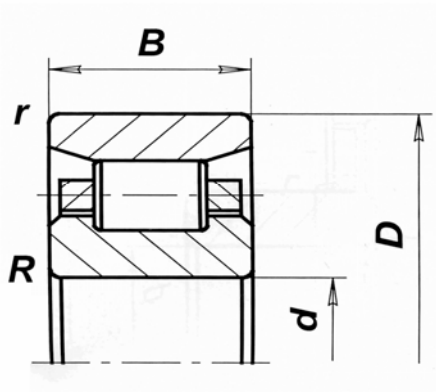


Designation	International designation	Dimensions, мм			Rated load capaciti		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
		d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
140Л	6040.MB	200	310	51	216	245	1900	2,1	2,1	14,6
144Л	6044.MA	220	340	56	245	290	1800	3	3	19,2
148Л	6048.MB	240	360	56	255	315	1700	3	3	22,4
152Л	6052.MB	260	400	65	291	375	1500	4	4	31,1
156Л	6056.MA	280	420	65	310	425	1400	4	4	33,2
172Л	6072.MB	360	540	82	462	720		5	5	71,5
196Л	6096.MB	480	700	100	618	980		6	6	135,7
1/560	60/560	560	820	115	704	1402		10	10	219
619/710	619/710.MA	710	950	106	106	663	600	6	6	230

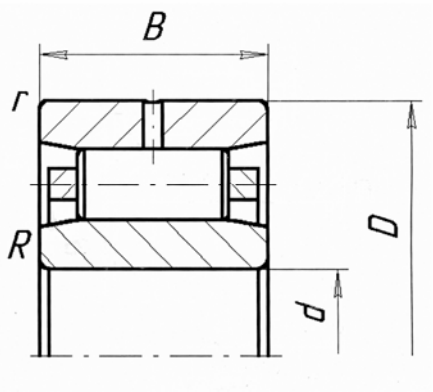
Radial roller bearings with short cylindrical rollers



Bearings with short cylindrical rollers and ribless outer ring



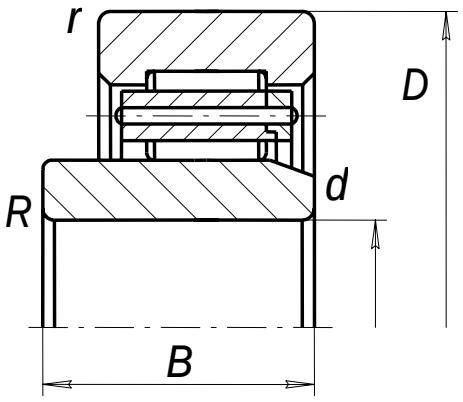
Drawing 1



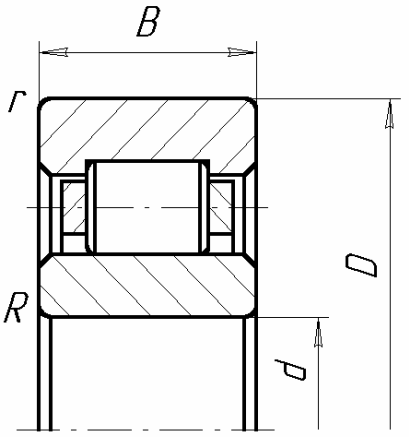
Drawing 2

Designation	International designation	Dimensions, mm			Rated load capacity		nпред (min^{-1})	Chamfer radius		Weight, kg	Drawing number
		d	D	B	C (kN)	Co (kN)		Rmin, мм	rmin, мм		
2556M	NU2256	280	500	130	1826	3306	1150	4,7	4,7	119	1
3004264		320	580	208	2820	3370	800	5	5	257,5	1
2768M		340	530	133	1686	3366		4,7	4,7	114	1
2002780M		400	650	145	2529	4516		6	6	193	1
20028/670M		670	820	88	1646	4087		3,7	3,7	103	1
1327/675K1		675	840	120	1912	5630		3	3	166	2
1327/840M		840	1040	125	2937	8268		3,7	3,7	260	2
1327/890M		890	1090	130	2818	7964		3	3	292	2
30029/950		950	1250	224	5456	13974		7,5	7,5	757	1

Bearings with short cylindrical rollers and ribless inner ring



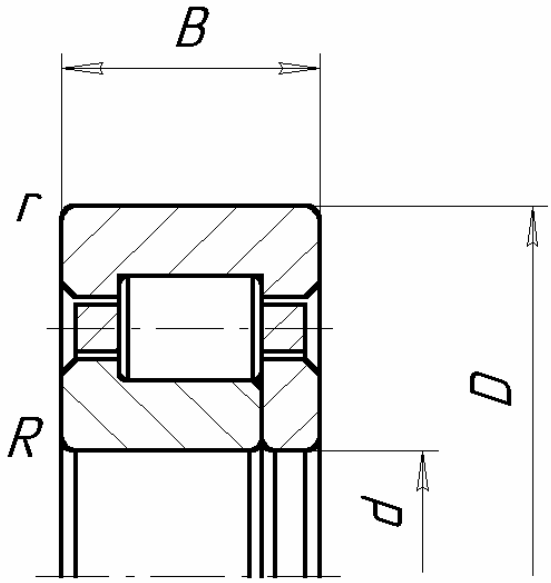
Drawing 1



Drawing 2

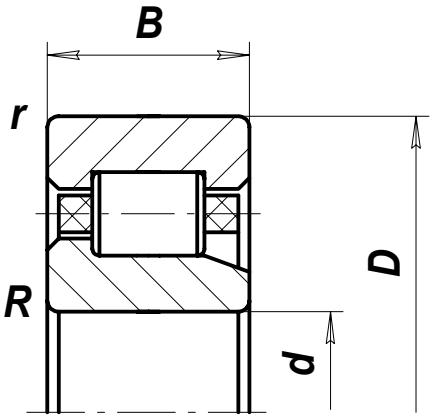
Designation	International designation	Dimensions, mm			Rated load capacity		nпред (min^{-1})	Chamfer radius		Weight, kg	Drawing number
		d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm		
672152M		260	400	80	796	1169	1380	3,7	3,7	31,7	1
2032172ЛМ	NU2072	360	540	106	1703	3158		4,7	4,7	92,7	2
672878M		390	560	82	900	1400		3	3	67,7	2
672778M		390	560	100	1132	1910		3	3	71,3	1
1032980M		400	540	65	848	1544		3,7	3,7	42,5	2
3032180M		400	600	148	2318	4407		4,7	4,7	147	2
2032780M		400	650	145	2600	4681		6	6	196	2
672788M		440	620	110	1426	2474		3	3	96,6	1
20329/500M		500	670	100	1775	3849		4,7	4,7	103	2
327/600M		600	830	150	2820	6147		4,7	4,7	254	2
327/700		700	930	160	3006	6986		6	6	300	2
327/770		770	1020	170	3200	7799		7,5	7,5	395	2

Bearings with short cylindrical rollers, one rib on inner ring and side plate



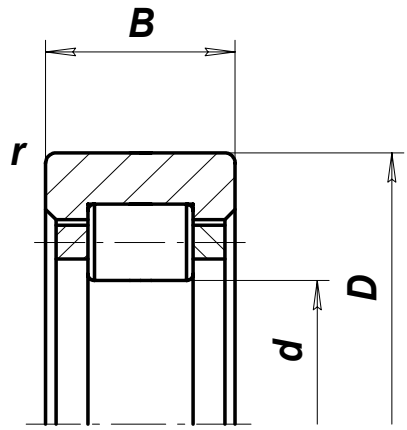
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm	
92152M	260	400	65	793	1162	1380	3,7	3,7	31,7
2092992M	460	620	95	1614	3435		3,7	3,7	91
30928/630AM	630	780	112	2291	5957		3,7	3,7	127
30928/630JIM	630	780	112	1882	4582		3,7	3,7	130,7
927/700M	700	930	160	3000	7000		6	6	317

Bearings with short cylindrical rollers and one rib inner ring



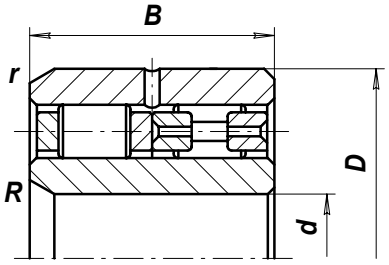
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)		d	D	
42205A1EУШ1	25	52	15	8,8	16,8	11 000	1	1	0,135
42305AEУШ1	25	62	17	37,5	41,5	9 000	1,1	1,1	0,261

Bearings with short cylindrical rollers without inner ring

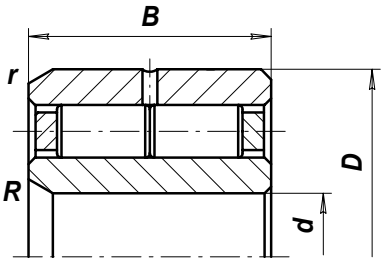


Designation	Dimensions, (mm)			Rated load capacity		Chamfer radius	Weight, kg
	d	D	B	C (kN)	Co (kN)	r_{min}, mm	
292152M	290	400	65	796	1169	3,7	23,6

Double row bearings with short cylindrical rollers, without ribs on inner and outer rings and solid cage



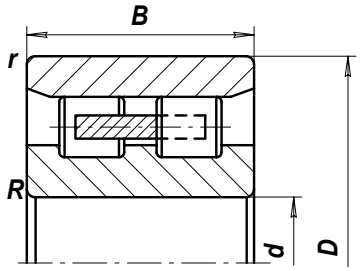
Drawing 1



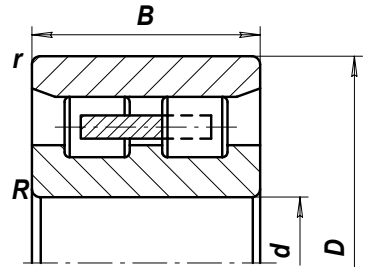
Drawing 2

Designation	Dimensions, (mm)			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm		
782726KM	130	230	110	900	1563	2600	3,7	3,7	19,7	1
762726У	130	230	110	919	1036	2600	3,7	3,7	20,1	2
764728У	140	250	120	1185	2280	2400	3,5	3,5	23,8	2
782756M	280	460	200	2278	4680	800	6	6	150	2
782760	300	500	190	2815	5812	650	9,5	2,3	170	2

Bearings with short cylindrical rollers, without ribs on outer ring and solid cage



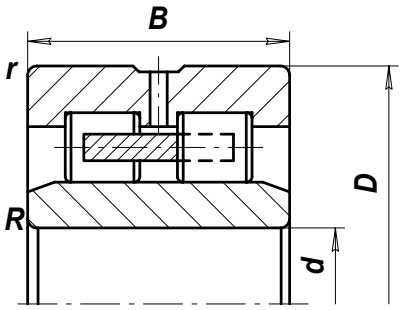
Drawing 1



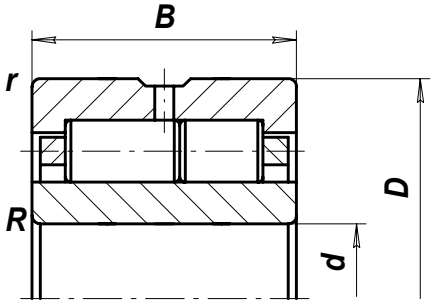
Drawing 2

Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)	R_{min}, mm	r_{min}, mm		
3282168	340	520	133	1621	3202	4,7	4,7	100	1
4202192M	460	680	218	3754	8558	6	6	288	2
32221/560M	560	820	195	4383	9170	6	6	377	2

Double row bearings with short cylindrical rollers, without ribs n inner ring and solid cage



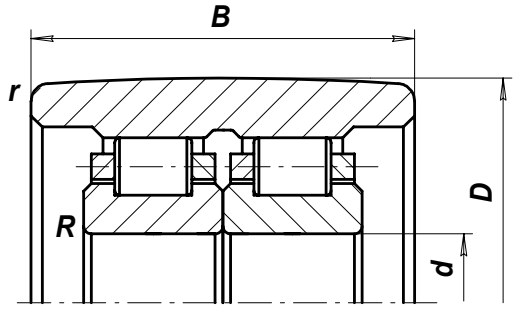
Drawing 1



Drawing 2

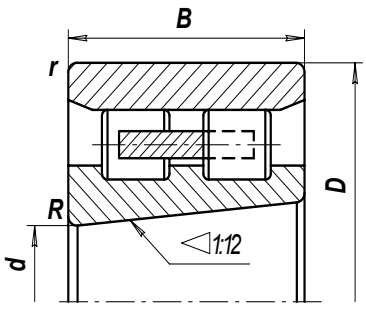
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм		
4162968КЛ	340	460	118	1200	2500	3	3	57,9	1
42629/530М	530	710	180	3187	7929	4,7	4,7	219	2

Double row bearings with short cylindrical rollers, without rib on outer ring, wide inner ring and solid cage

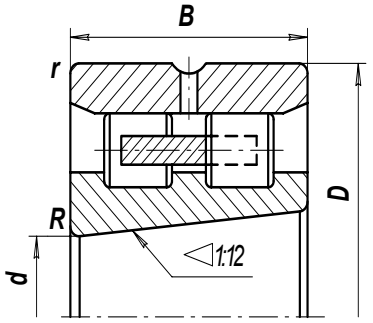


Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Drawing number
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm	
212956M	280	550	320	3131	6612	1150	4,7	7,5	366

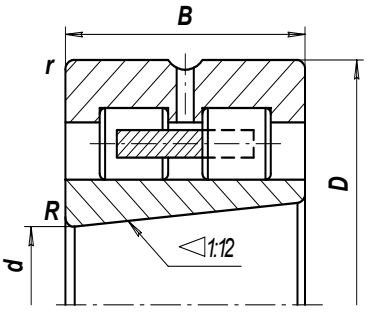
Double row bearings with short cylindrical rollers, without rib on outer ring and tapered bore



Drawing 1



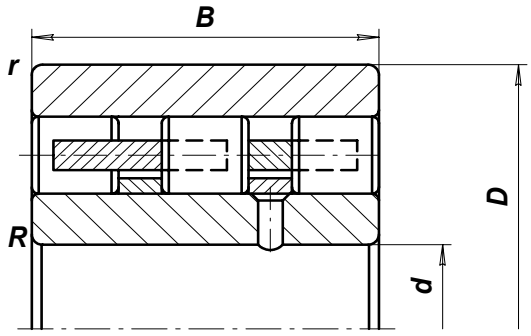
Drawing 2



Drawing 3

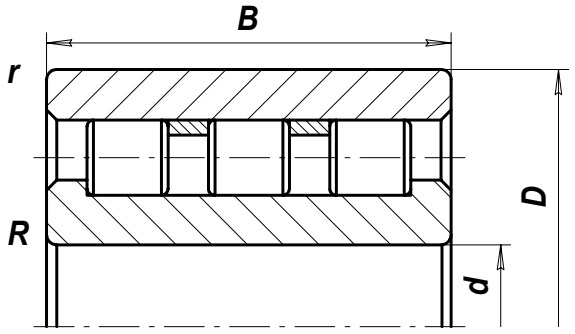
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm		
3182120	100	150	37	160	129	3400	1,5	1,5	2,2	1
3182122	110	170	45	233	189	3200	2	2	3,53	1
3182124	120	180	46	244	207	2800	2	2	3,93	1
3182128	140	210	53	305	237	2600	2	2	6,06	1
3182168	340	520	133	1621	3202		4,7	4,7	97,3	1
4162968K	360	460	118	1200	2500		3	3	56,8	3
3182172K	360	540	134	1652	3331		5	5	105	2
3182172K1	360	540	134	1652	3331		5	5	106	2
3182180	400	600	148	2033	4140		4,7	4,7	144	1
3182192K	460	680	163	2538	5334		6	6	196	2
31821/500	500	720	167	2558	5512		6	6	213	1
21821/560	560	820	150	3443	7386		6	6	267	1
21821/670M	670	980	180	4581	10354		7,5	7,5	452	1

Three row bearings with short cylindrical rollers



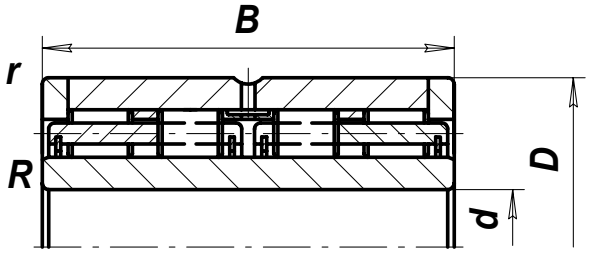
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm	
462836ХЛМУ	180	406,42	224	2521	4948	1950	3	1,1	170

Three row bearings with short cylindrical rollers, without rib on outer ring and cylindrical bore in inner ring

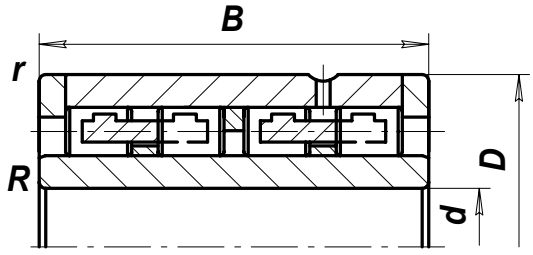


Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, mm	r_{min}, mm	
5362980M	400	540	190	2776	8174	3,7	3,7	132
5362980KM	400	540	190	2775	8174	3,7	3,7	130

Bearings with short cylindrical rollers, without ribs on either ring and side plates



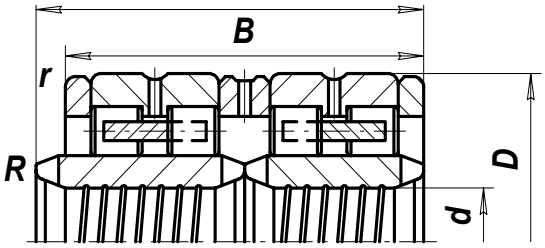
Drawing 1



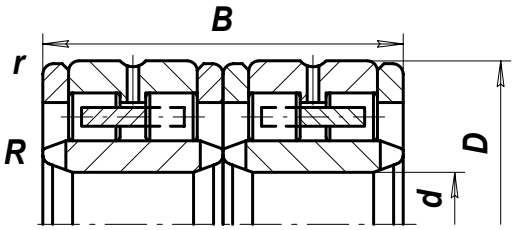
Drawing 2

Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)		R_{min}, mm	r_{min}, mm		
6442144XM	220	340	218	1746	4151	290	3	1,3	78,7	1
20-6462164M	320	480	290	3638	9127		3,7	1,1	195	2

Bearings with short cylindrical rollers



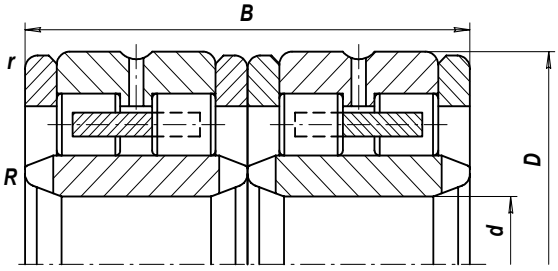
Drawing 1



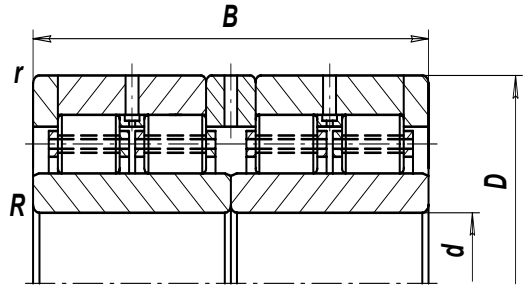
Drawing 2

Designation	Dimensions, mm				Rated load capacity		Chamfer radius		Weight, kg	Drawing number
	d	D	B	T	C (kN)	Co (kN)	R_{min}, mm	r_{min}, mm		
742782M	410	560	400	420	5129	14689	11x20°	2	296	1
742788M	440	620	450	470	6180	17617	12x20°	2	440	1
7429 / 571	571,1	812,97	594		11590	35347	15x20°	6	1036,3	2

Bearings with short cylindrical rolles



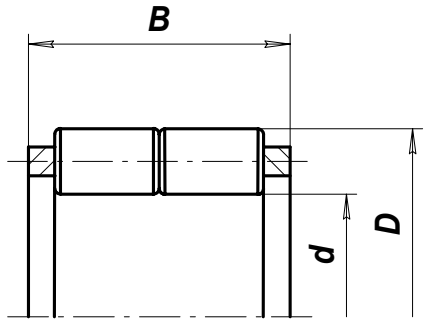
Drawing 1



Drawing 2

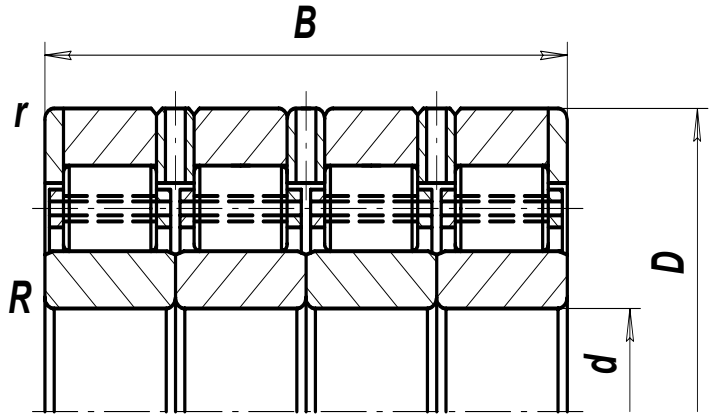
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
262744XMУ2	220	340	218	1847	4012	1100	10x20°	3	75	1
442860XM	300	500	360	4604	10178	380	4,7	4,7	304	2
442860XM1	300	500	360	4604	10178	380	6	6	304	2
262768XMУ2	340	480	290	3230	8561		15x20°	3	172	1
262780XMУ2	400	560	365	4413	12000		15x20°	3	288	1
262796XMУ2	480	700	480	8352	23425		15x20°	6	650	1
4427/500X	500	720	530	9569	28610		6	6	744	2
4427/710X	710	1030	775	17200	52300		7,5	7,5	2251	2
4427/750XK	750	1090	775	19758	63006		20x20°	7,5	2568	2
4428/750X	750	1090	750	19695	57475		25x20°	7,5	2445	2
4428/750XK	750	1090	750	2067	61306		25x20°	7,5	2549	2
4427/850X	850	1220	900	26530	88190		7,5	7,5	3661	2
4427/950X	950	1360	975	30340	104580		7,5	7,5	4882	2

Roller bearings without inner and outer rings



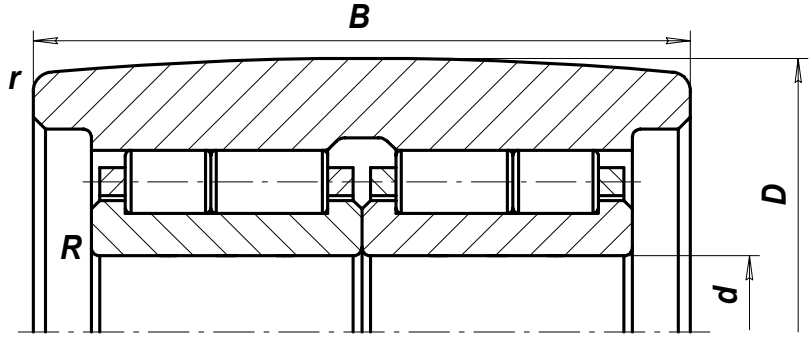
Designation	Dimensions, mm			Weight, kg
	d	D	B	
64234	170	220,8	117	9,7

Four row bearings with short cylindrical rolles



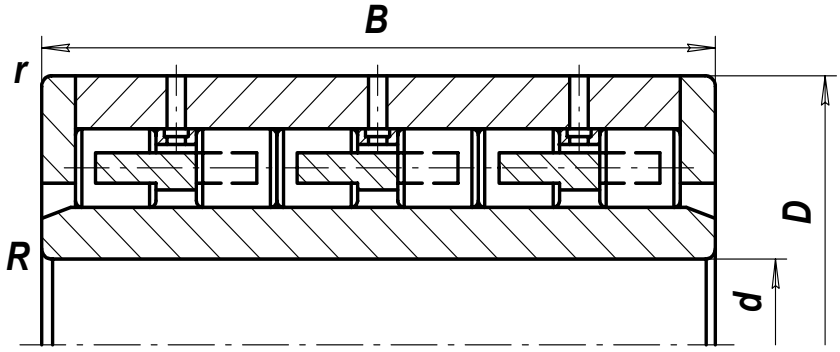
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
4429 / 900X	900	1280	780	23797	74759	2,3	5	3456
ВС4-8062 / НА1VU001Л	1040	1440	1000	29690	90529	27	7,5	5308

Four row bearings with no ribs on wide outer ring and solid cage



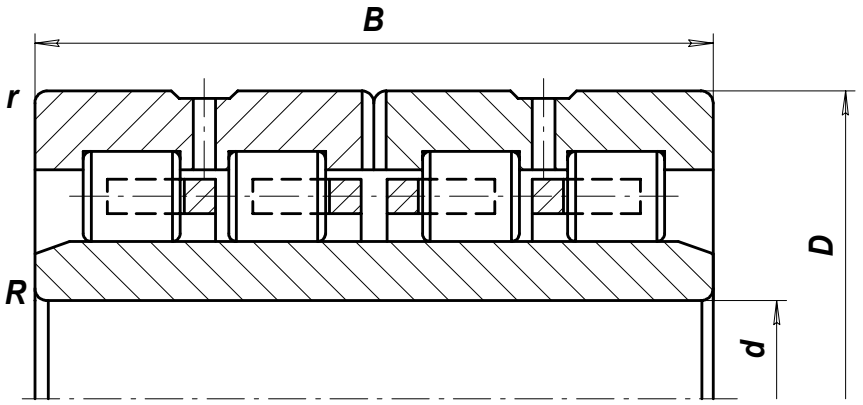
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
212792M	460	800	500	6340	17209	6	9,5	1111

Six row bearings with short cylindrical rolles



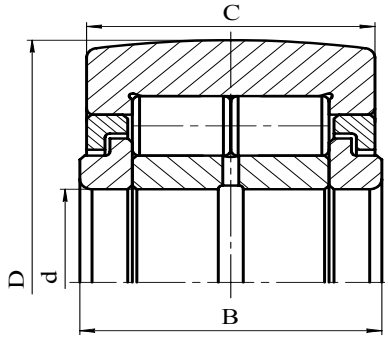
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
6442176K1	380	560	325	3414	9270	5	2	317

Four row bearings with short cylindrical rolles



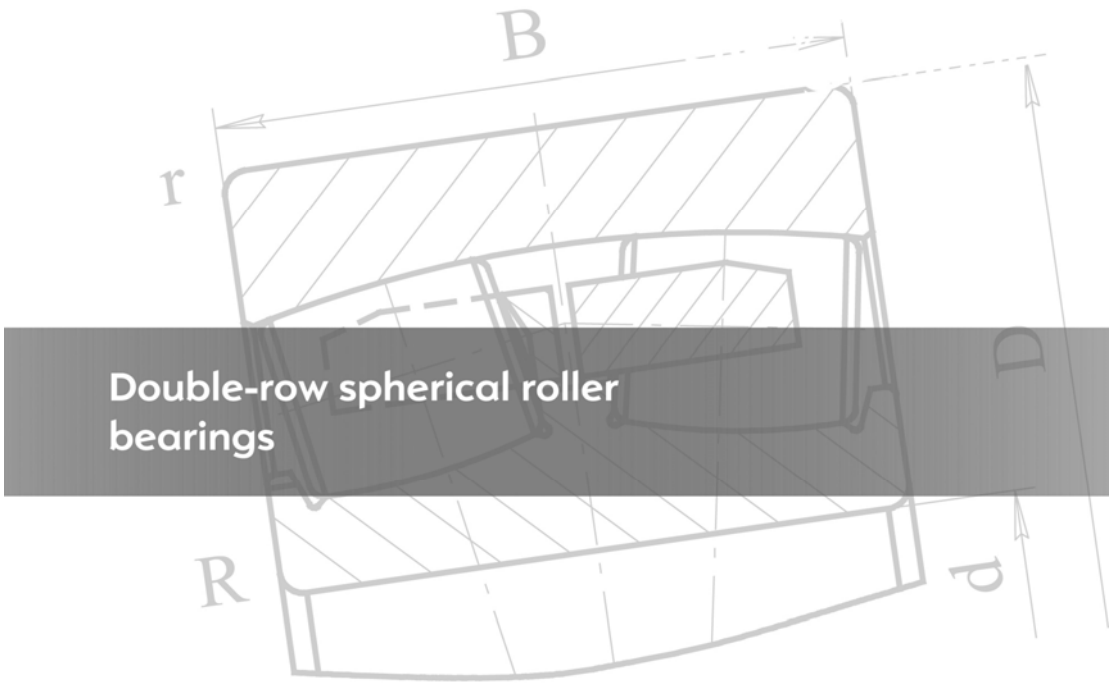
International designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
90952N4U	550	800	560	10569	28248	6,3	6,3	955
20-90914N4U	240	360	290	3300	6550	4	2	104

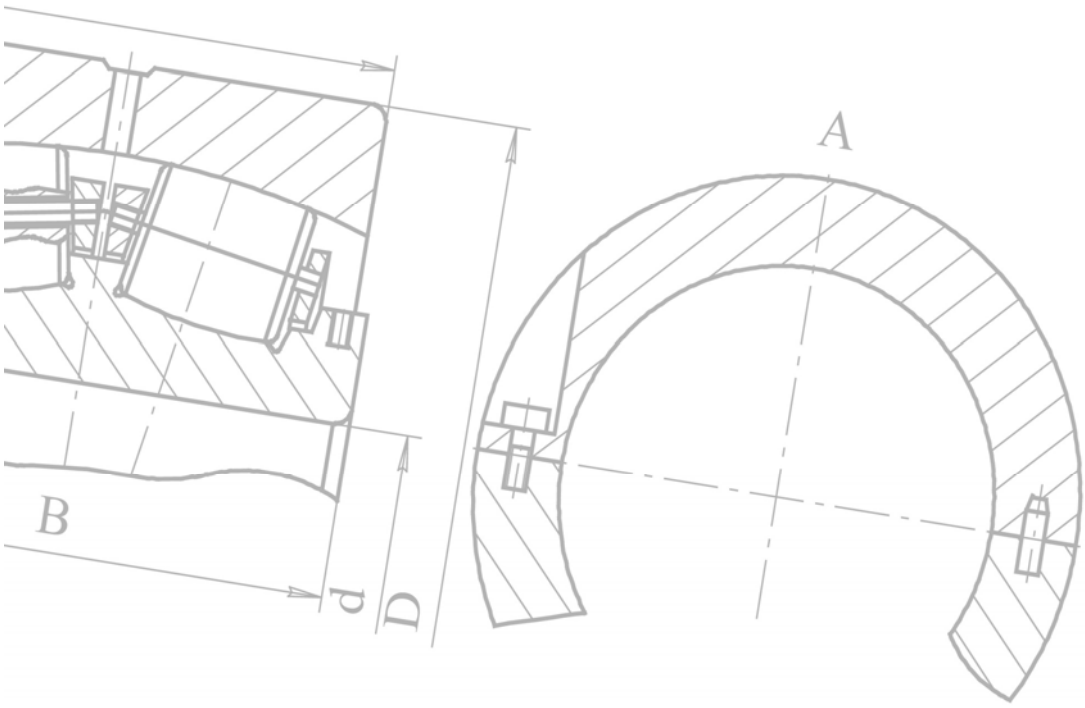
Double-row rollers with attached ribs and no cage



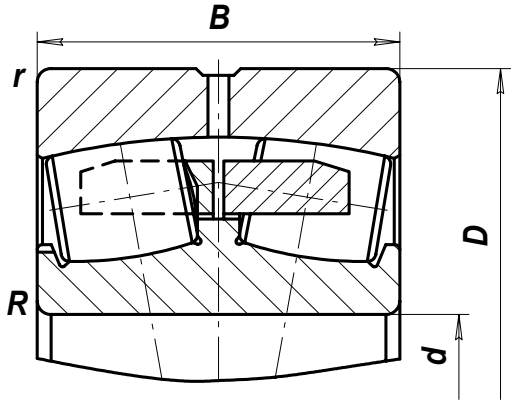
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
962814K7XC17	70	190	60	200	210	1	3	10,7
962824K7XC17	120	290	80	320	410	1	3	34
962836K7XC17	180	385	116	1000	1400	1	3	77,1

Double-row spherical roller bearings

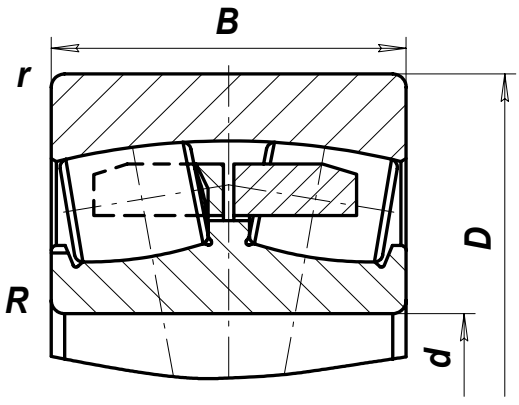




Double row spherical roller bearings



Drawing 1

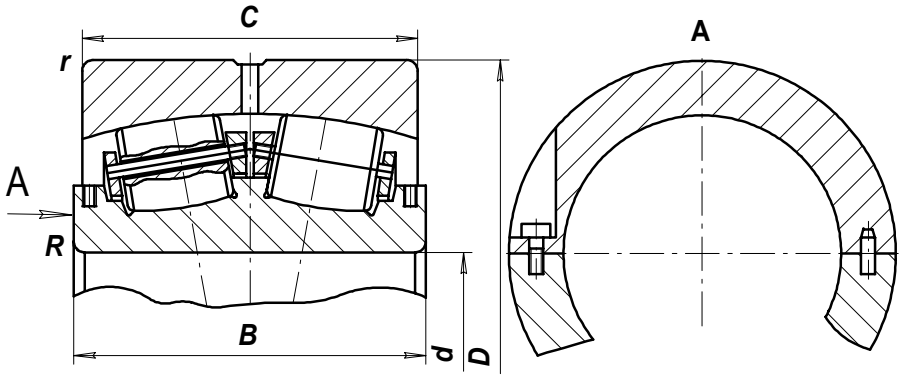


Drawing 2

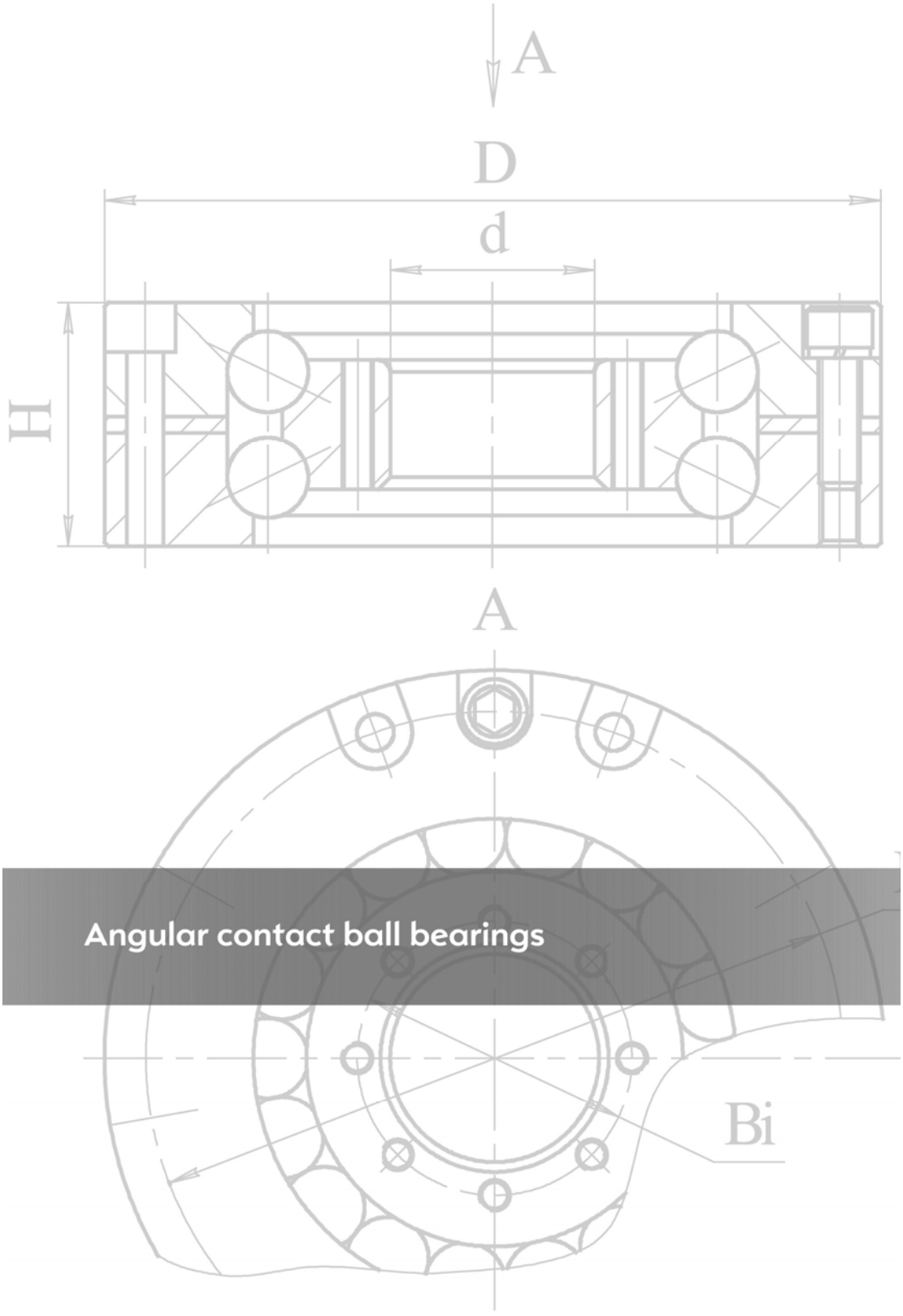
Designation	International designation	Dimensions, mm			Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
3508	22208M	40	80	23	57	33,3	6200	1,1	1,1	0,58	2
3608H	22308MW33	40	90	33	95	64,9	4800	1,5	1,5	1,03	1
3509	22209M	45	85	23	64	35	5800	1,1	1,1	0,6	2
3609H	22309MW33	45	100	36	114	74,8	4600	1,5	1,5	1,4	1
3610H	22310MW33	50	110	40	150	101	4300	2	2	1,9	1
3511H	22211MW33	55	100	25	99,5	118	5300	1,5	1,5	0,88	1
3611H	22311MW33	55	120	43	170	118	4000	2	2	2,27	1
3512H	22212MW33	60	110	28	153	180	5000	1,5	1,5	1,2	1
3612	22312M	60	130	46	196	128	3600	2,1	2,1	3,1	2
3513H	22213MW33	65	120	31	150	200	4500	1,5	1,5	1,6	1
3613H	22313MW33	65	140	48	220	142	3400	2,1	2,1	3,63	1
3514H	22214MW33	70	125	31	132	3,8	4500	1,5	1,5	1,8	1
3614H	22314MW33	70	150	51	270	181	3200	2,1	2,1	4,28	1
3615H	22315MW33	75	160	55	300	207	3000	2,1	2,1	5,27	1
3516H	22216MW33	80	140	33	160	118	4000	2	2	2,17	1
3616H	22316MW33	80	170	58	325	227	2800	2,1	2,1	6,2	1
3517H	22217MW33	85	150	36	183	130	3600	2	2	2,7	1
3617H	22317MW33	85	180	60	365	270	2600	3	3	7,65	1
3518H	22218MW33	90	160	40	216	159	3400	2	2	3,48	1
3618H	22318MW33	90	190	64	400	300	2600	3	3	9,3	1
3519H	22219MW33	95	170	43	245	170	3200	2,1	2,1	4,31	1
3520H	22220MW33	100	180	46	275	212	3000	2,1	2,1	5	1
3003220H	23220	100	180	60,3	385	615	1900	2,1	2,1	7	1
3620H	22320MW33	100	215	73	520	410	2200	3	3	12,8	1
3053722НЛ	23122	110	180	56	374	567	1900	2	2	5,7	1
3522H	22222MW33	110	200	53	355	276	2800	2,1	2,1	7,4	1
3003222H	23222	110	200	69,8	529	767	1600	2,1	2,1	9,9	1
3622H	22322	110	240	80	740	880	1500	3	3	17,8	1
3003124H	23024	120	180	46	280	473	2000	2	2	4,5	1
3524H	22224MW33	120	215	58	415	325	2600	2,1	2,1	9,12	1
3624	22324	120	260	86	860	1100	1300	3	3	22,8	2
3003126H	23026	130	200	52	384	627	1900	2	2	5,7	1
3526H	22226MW33	130	230	64	500	415	2400	3	3	11,1	1

Designation	International designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
		d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
3626	22326	130	280	93	982	1217	1000	4	4	28,5	1
3003128H	23028	140	210	53	385	660	1800	2	2	6,8	1
3003728H	23128	140	225	68	571	941	1600	2,1	2,1	11,5	1
3528H	22228	140	250	68	660	924	1600	3	3	14,2	1
3628H	22328	140	300	102	1100	1444	1200	4	4	35,3	1
3530H	22230	150	270	73	730	1040	1500	3	3	18	1
3630H	22330	150	320	108	1208	1670	1100	4	4	42,9	1
3003732H	23132MW33	160	270	86	695	725	1300	2,1	2,1	20	1
3532H	22232	160	290	80	868	1243	1400	3	3	22,7	1
3534H	22234	170	310	86	974	1420	1300	4	4	27,3	1
3634H	22334	170	360	120	1527	2000	950	4	4	59,3	1
3536H	22236	180	320	86	1054	1577	1200	4	4	30,4	1
3738H		190	280	67	608	1164	950	3	3	15	1
3538H	22238	190	340	92	1089	1669	1200	4	4	37	1
3638H	22338	190	400	132	1816	2675	850	5	5	81	1
3540H	22240	200	360	98	1270	2016	1100	4	4	44,4	1
3640H	22340	200	420	138	1954	2884	850	5	5	93,5	1
3003144	23044	220	340	90	930	850	1000	3	3	30,6	2
3003744	23144	220	370	120	1580	2750	700	4	4	53,2	2
3644H	22344	220	460	145	2200	3252	750	5	5	128	1
3548H	22248	240	440	120	1843	2968	800	4	4	87	1
3003148	23048	240	360	92	980	1080	900	3	3	33,7	2
3552H	22252	260	480	130	2055	3311	750	5	5	103	1
3003752	23152	260	440	144	1860	1960	770	4	4	92,4	2
3652H	22352	260	540	165	2900	4514	630	6	6	188,5	1
3003152	23052	260	400	104	1400	2550	820	4	4	48,6	2
3756H		280	410	98	1203	2431	700	4,7	4,7	46,9	1
3556H	22256	280	500	130	2139	3519	700	5	5	123	1
3003156	23056	280	420	106	1290	1440	750	4	4	54,5	2
3656	22356	280	580	175	2717	4853	560	6	6	235	2
3003756	23144	280	460	146	2000	2150	730	5	5	100	2
3760H		300	440	105	1466	2809	630	4	4	58,2	1
3003160	23060	300	460	118	1866	3497	630	4	4	73,2	2
3003164	23064	320	480	121	1798	3482		4	4	79,4	2
3564	22264	320	580	150	3160	4900		5	5	180	2
3003264XH	23264	320	580	208	3011	6317		5	5	259	1
3003168	23068	340	520	133	2000	2090	630	5	5	109	2
3003172	23072M	360	540	134	2080	2290		5	5	112,9	2
4003772		360	600	243	3700	4400	560	5	5	270	2
3572H	22272MW33	360	650	170	3000	2850		6	6	256	1
3003180H	23080MW33	400	600	148	2550	2690		5	5	148,9	1
3003180У	2380MW33	400	600	148	2550	2690		5	5	148,9	1
3580H	22280MW33	400	720	185	3650	3500		6	6	338	1
3680H	22380MW33	400	820	243	5600	5420		7,5	7,5	690	1
780H	23180MW33	400	650	200	3600	3400		6	6	263,3	1
3003188H	23088MW33	440	650	157	2850	3130		6	6	187	1
3003192	23092	460	680	163	3650	7650		6	6	215,8	2
3003792H	23192MW33	460	760	240	5000	4800		7,5	7,5	470	1
3003196	23096	480	700	165	3341	7099		6	6	230	2
30031/530	230/530	530	780	185	3293	8173		6	6	315	2
30031/600XH	230/600	600	870	200	4107	10751		6	6	432	1

Split double row spherical roller bearings

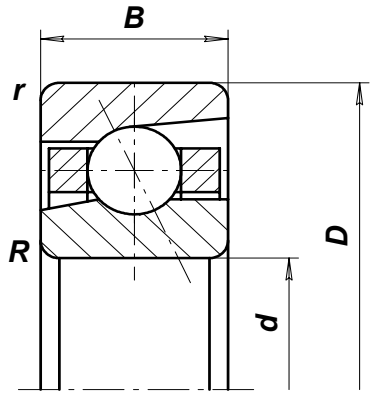


Designation	Dimensions, mm				Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
3640XK	200	420	200	138	1759	2596	5	5	97,3
538/850XK	850	1500	610	515	20700	42100	15	15	4200
538/1320XK	1320	1950	640	540	28340	69542	12	15	5950



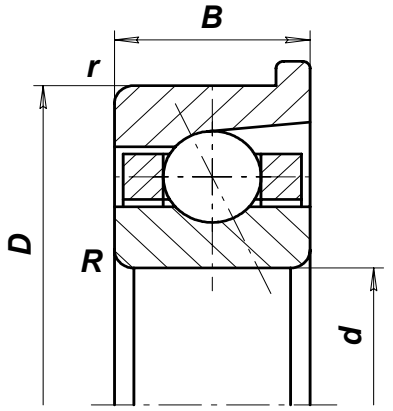
Angular contact ball bearings

Angular contact ball bearings



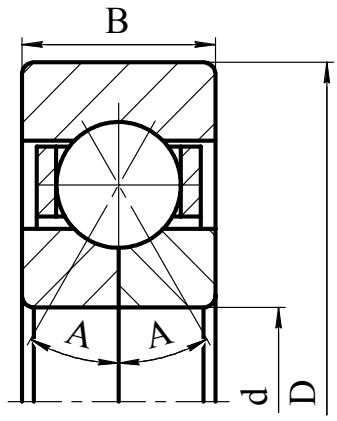
Designation	International designation	Dimensions, mm			Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg
		d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
66144КЛ	7044B	220	340	56	262	442	1400	3	3	18,2
66156КЛ	7056B	280	420	65	238	365	900	4	4	33,5
461/750		750	920	78	532	1302		5	5	110,8

Angular contact ball bearings



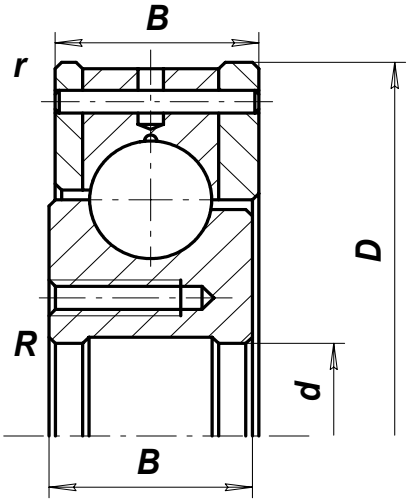
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
6467 / 630ЛУ	630	700	22	164	421	1,3	1,3	10

Single-row angular contact ball bearings with two-piece inner ring



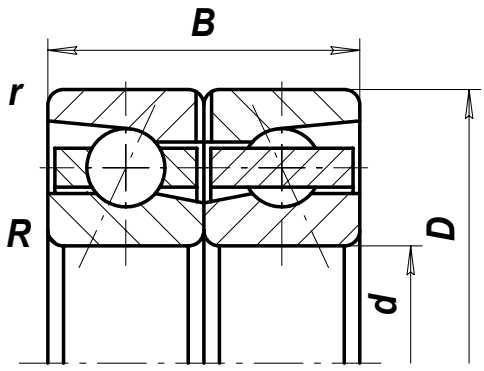
Designation	Dimensions, mm			Corner, deg	Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	A	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
И-828	340	480	65	36	299	488	3	3	40,9

Angular contact ball bearings

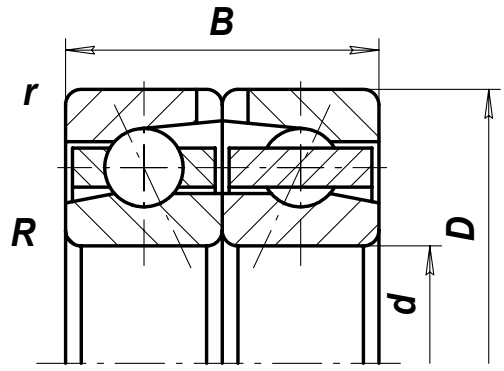


Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
2267/960	960	1170	67	137	508	1,5	1,3	168,5

Duplex angular contact ball bearings

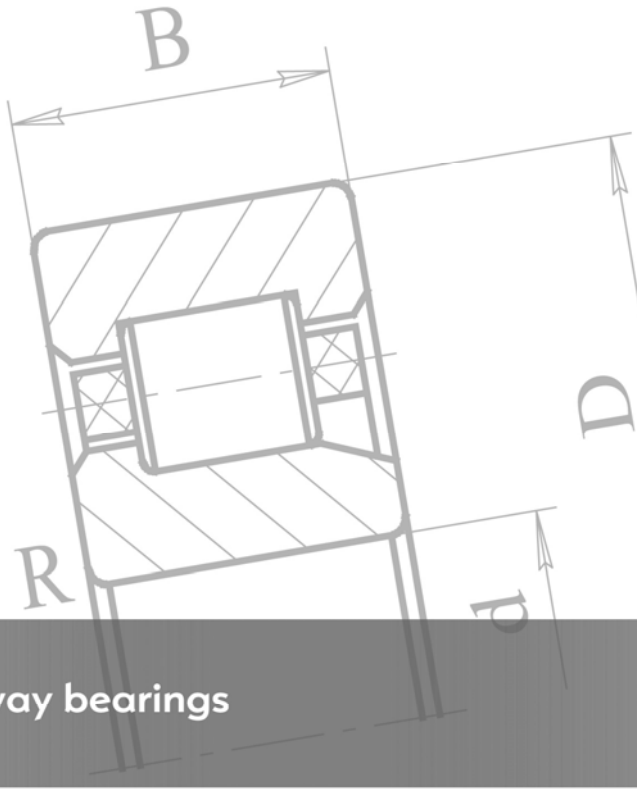


Drawing 1

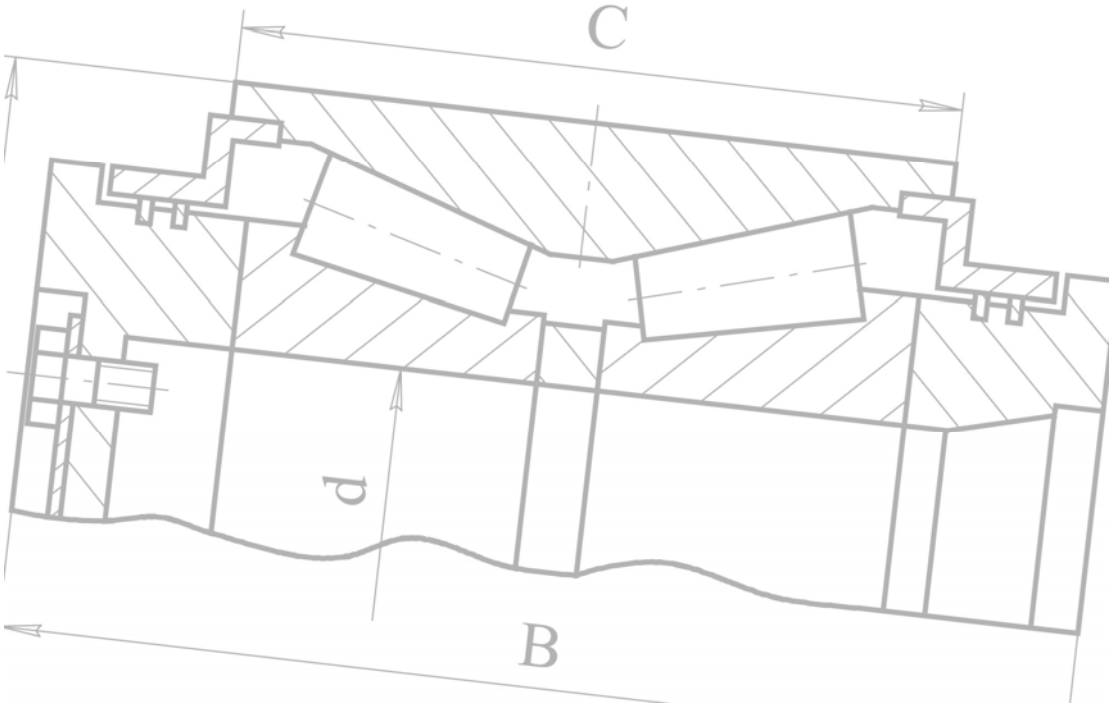


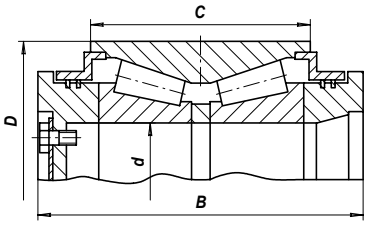
Drawing 2

Designation	International designation	Dimensions, mm			Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
266144КЛ	7044B/DB	220	340	112	426	718	1100	3	3	36,4	1
366156КЛ	7056B/DB	280	420	130	507	1000	1200	4	4	67	2

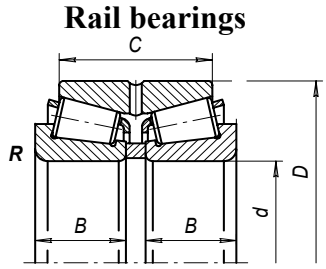


Railway bearings

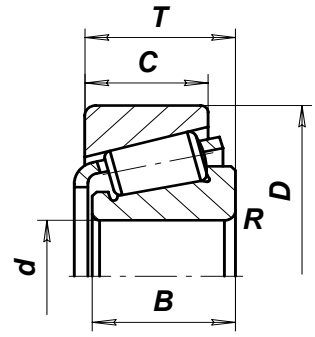




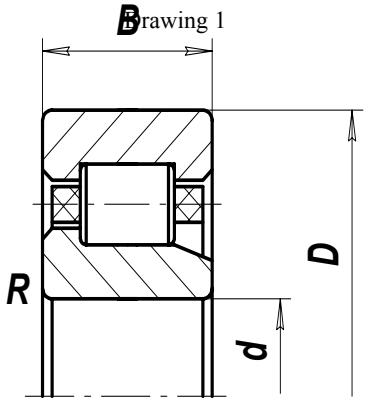
Drawing 1



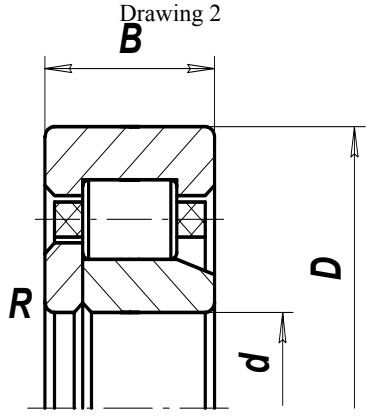
Drawing 2



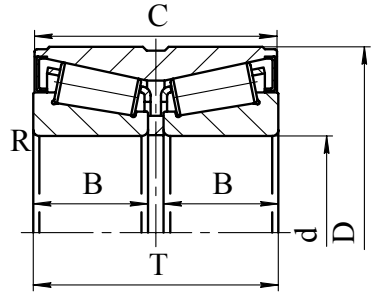
Drawing 3



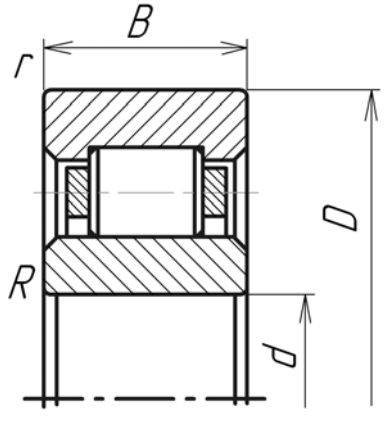
Drawing 4



Drawing 5

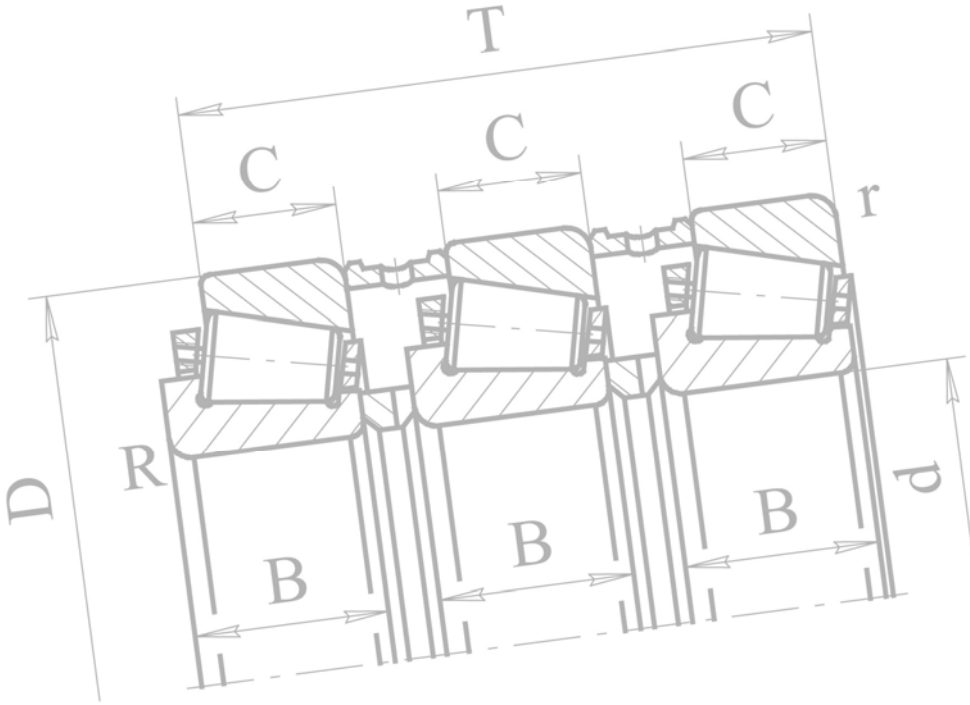


Drawing 6

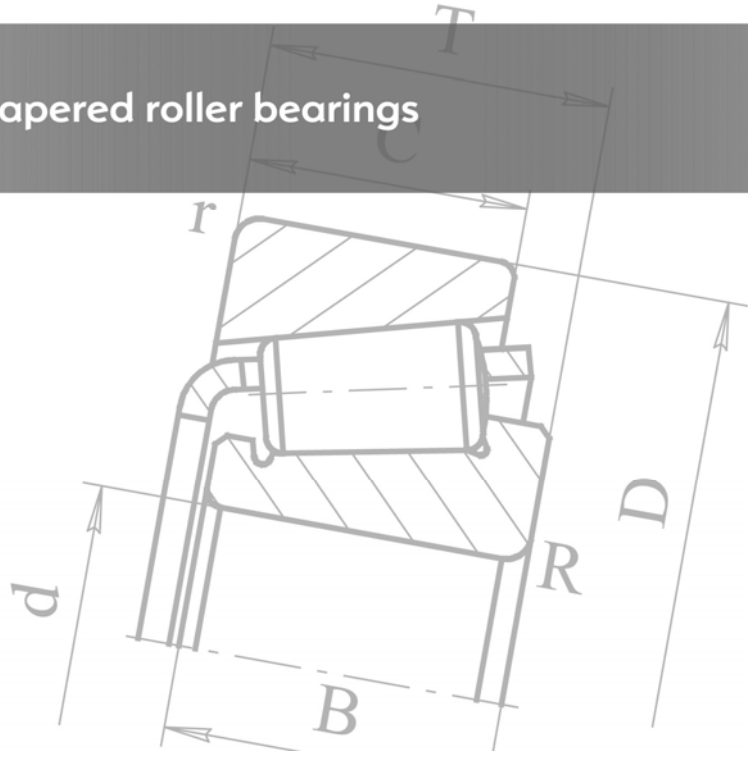


Drawing 7

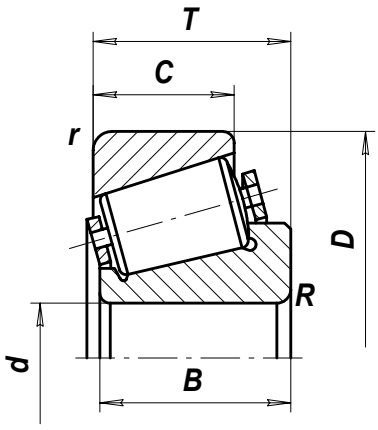
Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius R_{min}, мм	Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)				
БТКС-897826Х		130	230		241,4	150	830	1550	1600		36,9	1
БТКС-897826ЕХ		130	230		241,4	150	830	1550	1600		34,8	1
897830ХМУ		150	250		272,4	175	999	2025	1300		45,3	1
897830ХМУ2		150	250		272,4	175	999	2025	1300		45,9	1
897830 Х1МУ		150	250		272,4	175	999	2025	1300		45,9	1
	TBU120XM	120	195		180	131	550	970	1900		19,1	1
	C-49988	139,949	260		71,438	144	915	1790	1450	1,5	33,7	2
	4-R-4199	157,15	252,54		69,85	184,28	880	1776	1500	2,7	32	2
7536А	32236	180	320	91	86	71	1024	1680	1300	5	30,27	3
2007144ЛМ	32044	220	340	76	72	59	920	1620	1300	3	23,8	3
2007140М	32040	200	310	70	66	56	638	1142	1300	2,5	18,5	3
30-42726Е2М		130	250		80		900	1563	1800	3	17,2	4
30-232726Е2М		130	250		80		900	1563	1800	3	17,2	5
30-42726Л4М		130	250		80		900	1563	1800	3	18,9	4
30-232726Л4М		130	250		80		900	1563	1800	3	18,9	5
30-3032948ЛМ		240	320		60		520	1056		2,5	13,9	7
	SP 130	129,949	249,822			159	830	1550	1600		32,3	1
	SP 140	139,949	260			144	915	1790	1450		31,5	1
97826 КМ		129,96	250	161,2	75,5	160	1080	1965	1480	3	34,9	6



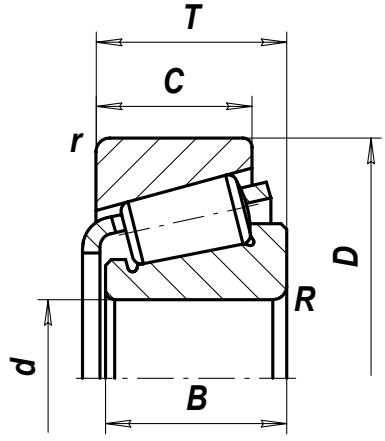
Tapered roller bearings



Single row tapered roller bearings



Drawing 2



Drawing 1

Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ $(мин^{-1})$	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
	LM11949 / LM11910	19,05	45,237	15,494	16,637	12,065	25,6	25,2	11000	1,2	1,2	0,126	1
7804У		19,058	45,25	15,494	16,637	12,065	26	25,9	11000	0,7	1,1	0,129	1
7204A	30204	20	47	15,25	14	12	25,4	25,2	10000	1	1	0,121	1
7304A	30304	20	52	16,25	15	13	27,9	24,9	8000	1,5	1,5	0,165	1
7604	32304	20	52	22,25	21	18,5	35,8	34,3	9400	1,5	1,5	0,236	1
7205A	30205	25	52	16,25	15	13	31,5	33,8	9000	1	1	0,156	1
7305A	30305	25	62	18,25	17	15	42,7	40,1	7900	1,5	1,5	0,272	1
7605A	32305	25	62	25,25	24	20	64,9	69,2	6000	1,5	1,5	0,375	1
	L44643 / L44610	25,4	50,292	14,224	14,732	10,668	23,8	26,5	9000	1,5	1,5	0,13	1
7805У		26	57,15	17,462	17,462	14	37,8	42,8	8000	3,2	1,3	0,226	1
	L44649 / L44610	26,988	50,292	14,224	14,732	10,668	24	27	9000	3,63	1,22	0,122	1
	J15585 / J15520	28	57,15	17,462	17,462	13,495	30,2	32,4	8000	3,2	1,3	0,209	1
7706	HR302/28	28	58	17,25	16	14	30,8	32,7	8000	3	1,1	0,205	1
7705У		28	67	20,5	20,5	16	55	64	7000	0,8	1,5	0,376	1
7705ЕУ		28	67	20,5	20,5	16	55	64	7000	0,8	1,5	0,355	1
7006A	L45449/ L45410	29	50,292	14,224	14,732	10,668	28,5	36,9	7000	3,5	1,3	0,113	1
2007106A	32006	30	55	17	17	13	28	35	6300	1	1	0,179	1
7206A	30206	30	62	17,25	16	14	37,6	39,6	7000	1	1	0,232	1
7506A	32206	30	62	21,25	20	17	50	57	7500	1	1	0,295	1
27306	31306A	30	72	20,75	19	14	38,8	37,8	6500	1,5	1,5	0,378	1
7306A	30306	30	72	20,75	19	16	55,8	55,4	6800	1,5	1,5	0,41	1
7606A	32306	30	72	28,75	27	23	80,8	89,5	5300	1,5	1,5	0,559	1
27606A		30	72	28,75	29	23	70,9	95,9	5300	1,5	1,5	0,625	1
2007706		31,75	58,738	16,3	16	13,3	28	35	8800	1,1	1,1	0,197	1
	LM67048 / LM67010	31,75	59,131	15,875	16,764	11,811	31,2	36	7500	4,8	1,2	0,189	1
	15125 / 15245	31,75	62	19,05	20,638	14,288	39,6	43,8	7500	4,7	1,2	0,255	1
	15123 / 15245	31,75	62	19,05	19,05	14,288	39,6	43,8	7500	4,7	1,2	0,255	1
7707У		33	62	16	16,5	12	37	42	7400	2,5	2	0,212	1

Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
7907A1	LM48548/LM48510	34,925	65,088	18,034	18,288	13,97	47,7	57,3	5600	3,6	1,3	0,26	1
7807У		34,938	73,03	26,987	26,975	22,225	72	86	6600	1,8	1,3	0,533	1
7807ЕУ		34,938	73,03	26,975	26,975	22,225	72	86	6600	1,8	1,3	0,510	1
	L68149 / L68111	35	59,974	15,875	16,764	11,938	30,6	39,6	7400	4,75	1,22	0,183	1
2007407A1K	JL68145/ JL68111	35	59,974	15,875	18,461	11,938	36,3	49,4	5000	4,75	1,17	0,186	1
2007107АК	32007	35	62	18	16,764	15	31	41	7700	4,75	1,1	0,226	1
7207A	30207	35	72	18,25	17	15	46	48	6400	1,9	1,5	0,328	1
7507A	32207	35	72	24,25	23	19	69	82,2	6400	1,5	1,5	0,449	1
27307	31307A	35	80	22,75	21	15	49,22	51,06	6000	2	1,8	0,521	1
1027307A	31307	35	80	22,75	21	15	65,5	72,8	5900	2	1,5	0,536	1
7307A	30307	35	80	22,75	21	18	74,9	77,5	5900	2	1,5	0,536	1
7607A	32307	35	80	32,75	31	25	105	120	4800	2	1,5	0,759	1
27607A	32307B	35	80	32,75	31	25	96,4	126	4800	2	1,5	0,813	1
27908АКУ		38,113	88,53	25,25	23	17	69,8	77,5	5400	1,8	1,8	0,747	1
2007108A	32008	40	68	19	19	14,5	49	66	7000	1,1	1,1	0,278	1
7208A	30208	40	80	19,75	18	16	57,8	62,3	5700	1,5	1,5	0,431	1
7508	32208	40	80	24,75	23,5	20	62	70	5800	1,5	1,5	0,576	1
7508A	32208	40	80	24,75	23	19	73,5	84,8	5800	1,5	1,5	0,553	1
7308A	30308	40	90	25,25	23	20	85,7	93,9	5200	2	1,5	0,76	1
27308АКУ	31308A	40	90	25,25	23	17	69,8	77,5	5400	1,8	1,8	0,732	1
7608A	32308	40	90	35,25	33	27	91,5	102	4000	2	1,5	1,06	1
	25580 / 25520	44,45	82,931	23,812	25,4	19,05	74,7	95,3	5500	3,63	0,89	0,578	1
2007109АК	32009	45	75	20	20	15,5	62,1	88,4	4800	1	1	0,352	1
7209A	30209	45	85	20,75	19	16	65,8	75,7	5400	1,5	1,5	0,491	1
7509A	32209	45	85	24,75	23	19	79,8	96,9	4500	1,5	1,5	0,591	1
127509K		45	85	24,75	24,5	20	69,4	89,4	5400	3,63	0,3	0,621	1
7809M		45	90	38,25	40	32,5	129	164,6	5100	2,3	1,8	1,14	1
7309A	30309	45	100	27,25	25	22	112	127	4650	2	2	1,5	1
7709		45	100	27,25	27	22	100	106	4700	1,8	1,8	1,06	1
27709K1У		45	100	32	29	20,5	88	93	4000	2,5	2,5	1,1	1
7609A	32309	45	100	38,25	36	30	156	193	4800	2	1,5	1,41	1
7909A		47	100	42,75	43	36	160	205	3200	1,8	1,8	1,61	1
2007110A	32010	50	80	20	20	15,5	57,2	48	5800	1	1	0,373	1
7210A	30210	50	90	21,75	20	17	73,9	87,9	5600	1,5	1,5	0,557	1
7510A	32210	50	90	24,75	23	19	84	104	4900	1,5	1,5	0,641	1
27310HA	31310A	50	110	29,25	27	19	92,3	105	4300	2,5	2	1,23	1
7310A	30310	50	110	29,25	27	23	123	138	4200	2,5	2	1,28	1
7610A	32310	50	110	42,25	40	33	176,8	221,3	4300	2,5	2	1,89	1
27911A		53,975	123,825	39,5	36,7	26	140	178	3900	3,5	2,3	2,23	1
7211A	30211	55	100	22,75	21	18	88,9	104	4000	2	1,5	0,688	1
7511A3	32211	55	100	26,75	25	21	101,3	123,4	4450	2	1,5	0,865	1
27311	31311A	55	120	31,5	29	21	98	108	3900	2,3	2,3	1,58	1
1027311A	31311A	55	120	31,5	29	21	120	134	3900	2,5	2	1,56	1
2007111A	32011X	55	90	23	23	17,5	80,9	116	5300	1,5	1,5	0,555	1
7311A	30311	55	120	31,5	29	25	144,8	164,3	3900	2,5	2	1,62	1
7611A	32311	55	120	45,5	43	35	203	256	4000	2,5	2	2,39	1
7212A	30212	60	110	23,75	22	19	94,3	108,9	3400	2	1,5	0,915	1
7512A	32212	60	110	29,75	28	24	130,5	165,6	4100	2	1,5	1,18	1
7512X1	32212	60	110	29,75	28	24	104,8	134,2	3400	1,8	1,8	1,19	1
7712A		60	120	45,5	44	37	207	280	3800	2,5	2,5	2,38	1
27312	31312A	60	130	33,5	31	22	105	114	3550	3	2,5	1,89	1
7312A	30312	60	130	33,5	31	26	167	194	3550	3	2,5	2,03	1
7612A	32312	60	130	48,5	46	37	250	323	2600	3	2,5	3	1
2007112A	32012X	60	95	23	23	17,5	76,5	122	5000	1,5	1,5	0,603	1
2007913A	32913	65	90	17	17	14	38	63	4900	1,1	1,1	0,332	1
2007113A	32013	65	100	23	23	17,5	65	92	4600	1,5	1,5	0,64	1
807813A		65	110	30,25	30	24	115	167	3850	3	1,8	1,1	1
807813A1		65	110	30,25	30	24	123	183	3850	3	1,8	1,1	1

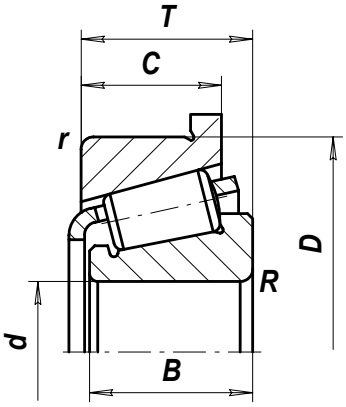
Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
7213A	30213	65	120	24,75	23	20	123,7	148,7	3700	2	1,5	1,15	1
7513A	32213	65	120	32,75	31	27	154	197	3700	2	1,5	1,57	1
27313	31313A	65	140	36	33	23	116	133	3280	3	2,5	2,4	1
7313A	30313	65	140	36	33	28	178,2	201,1	3280	3	2,5	2,48	1
7613A	32313	65	140	51	48	39	265	339	3400	3	2,5	3,61	1
	HM212049 /HM212011	66,675	122,238	38,1	38,354	29,718	140	189	3700	3,6	3,2	1,84	1
2007114M	32014	70	110	25	24	20	82	116	4000	1,3	1,3	0,834	1
2007114A	32014	70	110	25	25	19	110	171	3200	1,5	1,5	0,87	1
2007114AX	32014	70	110	25	25	19	101,7	154,7	3200	1,3	1,3	0,87	1
7714M		70	120	44,5	42	37	139	198	3600	2,5	2,5	1,93	1
7214AУ	30214	70	125	26,25	24	21	115,6	137,2	3500	2	1,5	1,25	1
7514A	32214	70	125	33,25	31	27	154	198,9	3500	2	1,5	1,64	1
7314A	30314	70	150	38	35	30	203	231,7	3100	3	2,5	3	1
7614A	32314	70	150	54	51	42	297	381	3000	3	2,5	4,37	1
7414A		71,438	127	36,512	31	30,5	170	226	3500	1,8	1,8	1,84	1
7814A		73,025	127	36,512	31	30,5	170	226	3500	1,8	1,8	1,79	1
2007915У	32915	75	105	20	19	17	52	87	4200	1,1	1,1	0,527	1
2007115A	32015	75	115	25	25	19	106	163	3000	1,5	1,5	0,917	1
7215A	30215	75	130	27,25	25	22	92,8	104,5	2800	2	1,5	1,39	1
7515A	32215	75	130	33,25	31	27	163	216	3200	2	1,5	1,72	1
7815A		75	135	44,25	45	35	215	321	3200	2,5	2,5	2,72	1
27315	31315A	75	160	40	37	26	156	177	2870	2,5	2,5	3,45	1
7315A	30315	75	160	40	37	31	251	297	2800	3	2,5	3,59	1
7615A	32315	75	160	58	55	45	350	460	2900	3	2,5	5,18	1
7615AE		75	160	58	55	45	350	460	2900	3,5	3	5,18	1
2007116A	32016	80	125	29	29	22	111	159	2600	1,5	1,5	1,28	1
3007716A		80	130	37	37	29	138	162	3000	2	1,5	1,92	1
7216A	30216	80	140	28,25	26	22	145	177	3200	2,5	2	1,65	1
7516A	32216	80	140	35,25	33	28	190	245	3000	2,5	2,3	2,11	1
7616A	32316	80	170	61,5	58	48	396	526	2700	3	2,5	6,49	1
27616A1	32316B	80	170	61,5	58	48	365	523	2740	3	2,5	6,63	1
2007116A	32016X	80	125	29	29	22	128	216	3600	1,5	1,5	1,28	1
2007117A	32017X	85	130	29	29	22	130	224	3400	2	2	1,34	1
3007117XM	33017	85	130	36	36	29	167	264	3000	1,3	1,3	1,66	1
7517A1	32217A	85	150	38,5	36	30	215	285	2900	2,5	2	2,66	1
7317	30317	85	180	44,5	41	35	273	327	2500	3	3	4,87	1
	HM518445 /HM518410	88,9	152,4	39,688	39,688	30,162	242	344	2800	6,4	3,6	2,92	1
	HM218248 /HM218210	89,974	146,975	40	40	32,5	224	333	2900	7,4	3,6	2,57	1
2007118A	32018	90	140	32	32	24	168	270	2200	2	1,5	1,74	1
7218A	30218	90	160	32,5	30	26	181,1	223,4	2000	2,5	2	2,54	1
7518A	32218	90	160	42,5	40	34	255,5	347	2000	2,5	2	3,42	1
7518AK1	32218	90	160	42,5	40	34	255,5	347	2700	2,5	2	3,42	1
7718AK		90	160	49,5	46	40,5	276	405	2700	2,5	2	4,11	1
7818M		90	170	61,5	59,5	49	366	537	2600	2,5	2,5	6,84	1
7318A1	30318	90	190	46,5	43	36	347	423	2400	4	3	5,84	1
7618A	32318	90	190	67,5	64	53	476	658	2400	4	3	8,84	1
2007119M	32019	95	145	32	30	26	142	210	3000	2	1,8	1,75	1
3007119A	33019	95	145	39	39	32,5	223	373	2900	2	1,5	2,32	1
7219M	30219	95	170	34,5	32	27	181	235	2500	2,5	2,5	3,1	1
7519A	32219	95	170	45,5	43	37	288	398	2500	3	2,5	4,24	1
807919		95,25	161,925	41	36,5	35	168	261	2600	2,5	2,5	3,26	1
2007120M	32020	100	150	32	30	26	166	266	2900	1,8	1,8	1,86	1
2007120A	32020	100	150	32	32	24	166	266	2900	2	1,5	1,89	1
7220A	30220	100	180	37	34	29	194	249	2400	3	2,5	3,72	1
7520A	32220	100	180	49	46	39	325	454	2400	3	2,5	5,07	1
7320	30320	100	215	51,5	47	39	348	407	2100	3	3	8,25	1
1027320M	31320A	100	215	56,5	51	37	306	381	2130	3	3	8,79	1
7620A	32320	100	215	77,5	73	60	608	836	2100	4	3	13,1	1
807920X1		101,6	161,925	41	36,5	35	168	262	2600	2,5	2,5	3,11	1
7821		105	180	49	46	39	296	435	2400	2,5	2,5	5	1
7721A		105	215	77,5	73	60	608	836	2100	4	3	12,7	1

Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ $(мин^{-1})$	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R min, мм	r min, мм		
	K-37425/ K-37625	107,95	158,75	23,02	21,438	15,875	104	156	2600	3,5	3,3	1,34	1
2007922M	32922	110	150	25	24	20	99	168	2900	1,3	1,3	1,2	1
2007122A	32022	110	170	38	38	29	235,8	372,6	1800	2,5	2	3,05	1
7222A	30222	110	200	41	38	32	286,2	369,7	2400	3	2,5	5,1	1
7522A	32222	110	200	56	53	46	396	562	2100	3	2,5	7,34	1
1027322M	31322A	110	240	63	57	38	420	543	1880	3	3	12,235	1
7622A	32322	110	240	84,5	80	65	720	995	1900	4	3	17,7	1
7723A		115	190	48,5	49	35	292	464	2200	3	3	5,2	1
2007124M	32024	120	180	38	36	31	211,4	332,4	2500	2,5	2,3	3,22	1
2007124A	32024	120	180	38	38	29	236	393	2500	2,5	2	3,25	1
7824AXM		120	180	41	40	33	287	449	2300	2,3	2,3	3,4	1
2007724M		120	200	51,5	48	43	315	469	2300	2,3	2,3	5,49	1
7224A	30224	120	215	43,5	40	34	350	477	2000	3	2,5	6,28	1
7524A	32224	120	215	61,5	58	50	499	746	2000	3	2,5	9,25	1
1027324M	31324A	120	260	67,5	62	43	423	551	1750	3	3	15,4	1
7624A	32324	120	260	90,5	86	69	847	1195	1750	4	3	22,4	1
2007726M		130	210	51,5	48	43	349	548	2150	2,3	2,3	6,5	1
7526A	32226	130	230	67,75	64	54	535	885	1800	4	3	11,8	1
2007928M1	32928	140	190	32	30	26	157	300	2200	1,8	1,8	2,547	1
2007928A	32928	140	190	32	32	25	212	378,1	2200	1,8	1,8	2,55	1
3007928XM		140	190	38,25	35	33	195	392	2200	1,8	1,8	3,025	1
807928A1XM		140	190	44	43	37	233	501	2000	1,8	1,8	3,6	1
807728AXM		140	205	44	43	36	574	1900	1900	1,8	1,8	4,8	1
2007128M	32028	140	210	45	42	36	283	455	2100	2,3	2,3	5,046	1
2007128A	32028	140	210	45	45	34	330,7	569,8	1600	2,3	2,3	5,22	1
7728		140	225	37,25	34	30	189	347	1780	1,8	1,8	5,6	1
7528A	32228	140	250	71,75	68	58	617	943	1700	4	3	14,6	1
1027328M	31328	140	300	77	70	48	548	733	1500	3,7	3,7	23	1
7828M		140	300	89,25	82	57,5	642	884	1500	3,7	3,7	27,5	1
2007930	32930	150	210	38	36	31	203	382	2000	2,3	2,3	3,88	1
2007730X		150	250	60,5	60	50	489	758	1800	2,5	2,5	11,88	1
7730M		150	254	66,25	63,5	50	489	758	1700	3,7	2,3	12,6	1
7230A	30230	150	270	49	45	38	484	665	1600	4	3	11,15	1
7230KM	30230	150	270	49	45	38	365,9	460,4	1600	3	3	10,7	1
7530M1	32230	150	270	77	74	60	685	1057	1500	3	3	18,52	1
2007132M	32032	160	240	51	48	41	386	647	1800	2,5	2,5	7,919	1
2007732M		160	270	69,25	66	56	584	960	1700	2,5	2,5	16,5	1
7532M	32232	160	290	84	80	67	818	1330	1600	3	3	22,2	1
7832M		160	375	86,55	79,4	50	844	1019	1050	4,7	4,7	39,6	2
7933M		165,125	288,95	63	63,5	47,6	610	965	1400	4,7	2,5	20,6	1
7634M	32334	170	360	127	120	100	1329	1952	1200	3,7	3,7	58	1
2007936	32936	180	250	45	42	36	310	562	1700	2,3	2,3	6,49	1
2007136M	32036	180	280	64	60	52	528	878	1600	2,5	2,5	13,4	1
7736M		180	290	64,25	63,5	48	544	934	1400	2,3	2,3	15,8	1
2007736M		180	300	75,5	72	61	704	1170	1500	3	3	20,3	1
1027336M	31336	180	380	97	88	60	887	1265	1170	3,7	3,7	46	1
2007938M	32938	190	260	45	42	36	322	600	1600	2,3	2,3	6,54	1
2007938A	32938	190	260	45	45	34	367,7	773,6	1100	2,5	2	6,84	1
7138M		190	290	50,25	46	40	388	619	1400	2,5	2,5	11,8	1
2007138M	32038	190	290	64	60	52	553	949	1500	2,5	2,5	14,4	1
2007738		190	320	81,25	78	64	735	1197	1400	3	3	24,7	1
7538M	32238	190	340	97	92	75	959	1575	1200	3,7	3,7	35,4	1
2007940M	32940	200	280	51	48	41	403	786	1500	2,5	2,5	9,23	1
2007740M		200	340	85,25	82	69	914	1521	1300	3	3	29,7	1
1027340M	31340A	200	420	107	97	66	1009	1510	1030	4,7	4,7	63	1
7941M		203,255	317,55	62,75	63,5	46,05	578	1049	1250	3	2,3	18,3	1
7841M		205	485	116,75	95,2	68	1161	1616	900	4,7	4,7	85,9	1
2007944M1	32944	220	300	51	48	41	426	870	1400	2,5	2,5	10,14	1
2007144M	32044	220	340	76	72	59	920	1620	1300	3	3	22,1	1
2007144A	32044	220	340	76	76	57	825	1468,6	1250	4	3	24	1
2007144АЛ	32044	220	340	76	76	57	778,7	1359,8	1250	4	3	25,32	1

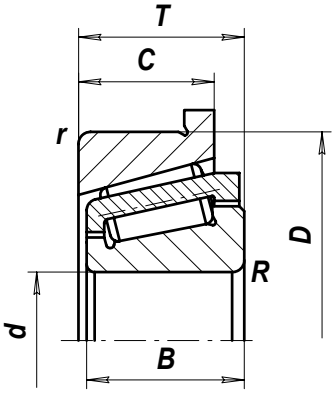
Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
2007144EM	32044	220	340	76	72	59	920	1620	1300	3	3	21,1	1
2007744M		220	370	91,25	88	75	1030	1700	1200	3,7	3,7	36,2	1
7244KM	30244	220	400	70	65	52	835	1139	1000	3,7	3,7	34,91	1
7544M	32244	220	400	114	108	90	1296	2068	1000	3,7	3,7	58,4	1
7946		228,63	300,063	32,55	29,3	25	215	433	1200	2,5	2,3	5,62	1
7746M		230	355,6	71,75	65	54	676	1125	1100	4,7	3	22	1
	M246947 /M246910	234,848	336,55	65,088	69,85	50,8	516	980	1100	2,44	3,23	18,7	1
7947		234,95	327,025	51,65	50	39	435	916	1200	4,7	2,3	12,3	1
2007948	32948	240	320	51	48	41	437	919	1280	2,5	2,5	10,9	1
2007148M	32048	240	360	76	72	62	788	1460	1100	3	3	26	1
2007748M		240	400	98,25	95	78	1130	1920	1100	3,7	3,7	45,8	1
817948KM		241,147	368,35	76	72	62	788	1466	1050	3	3	27,8	1
7951M		254,025	422,325	85,35	79,8	65,5	1067	1670	940	4,7	2,5	46,1	1
7851M	BT1B 328213	255	560	123,05	104,8	70	1578	2373	650	6	6	128	2
2007952M	32952	260	360	63,5	60	51	631	1229	1040	2,5	2,5	18,4	1
2007152M	32052	260	400	87	82	71	1000	1800	1100	3,7	3,7	36,5	1
2007752M		260	440	108,25	106	88	1410	2330	1000	3,7	3,7	62	1
7352M1	30352	260	540	109	102	80	1852	2591	800	6	6	108,8	2
27156M		280	420	69,25	65	44	644	1172	1000	3,7	3,7	30	1
2007156M	32056	280	420	87	82	71	1058	1911	900	3,7	3,7	38,9	1
2007156A	32056	280	420	87	87	65	1202,7	2309	870	5	4	40,3	1
7956		280,228	406,45	51,65	48,4	37	473	922	1000	4,7	2,3	20,1	1
7757A		285	330	24	23	19	157	415	1000	1,3	1,3	3,16	1
2007960M	32960	300	420	76	72	62	844	1720	960	3	3	30,9	1
7860M		300	440	72,25	58	51,5	692	1177	850	4,7	3,7	31	1
2007160M	32060	300	460	100	95	82	1248	2380	900	3,7	3,7	53,3	1
7760M		300	500	89,25	82	65	1203	2007	650	7,5	7,5	67,1	2
1007760M		300	500	94,25	90	70	1326	2166	800	4,7	4,7	68,3	1
2007164M	32064	320	480	100	95	82	1287	2527		3,7	3,7	59,1	1
7966M		329,87	533,4	75,2	76,2	52	1046	1813		3,7	2,5	60	2
7866A		330	375	24	23,4	18	169	481		1,3	1,3	3,53	1
2007968M	32968	340	460	76	72	62	899	1943		3	3	34,2	1
7168M		340	520	85	82	64	1175	1990		4,7	4,7	57	1
1007768M		340	580	112	106	78	1807	2912		4,7	4,7	105	1
2007972M		360	480	76	72	62	920	2034		3	3	35,8	1
7772Л		360	530	79,25	66	58,5	959	1636		4,7	4,7	51,12	1
7172M		360	540	85	82	64	1217	2118		4,7	4,7	60,6	1
1007976M		380	520	69	65	51	895	1734		3,7	3,7	40,8	1
1007976Л		380	520	69	65	51	882	1701,2		3,7	3,7	42,9	1
1007776M		380	620	111	106	76	1768	2911		4,7	4,7	114	1
7180M		400	600	94	90	68	1535	2835		4,7	4,7	84	1
1007780M		400	650	116	112	85	2357	3974		6	6	146	2
1007984M		420	560	69,25	65	51	934	1890		3,7	3,7	42,5	1
7184M		420	620	94	90	67	1547	2903		4,7	4,7	86,8	1
7784M		420	620	95	85	63,5	1408	2699		4,7	4,7	85,2	2
1007784M		420	700	129,25	122	92	2656	4672		6	6	188	2
307986Л		431,8	533,4	50,8	54	39,69	559	1297		1,8	1,1	17,7	1
7188XM		440	650	96,4	94	67	1769	3252		6	6	102	2
1007992KM		460	620	80	74	58	1236	2505		3,7	3,7	61,2	1
7192M		460	680	105	100	78	1894	3492		6	6	117	1
1007996M		480	650	84,5	78	60	1247	2577		4,7	4,7	71	1
1007796M		480	790	141	136	101	3265	5879		7,5	7,5	259	2
10079/ 500KM		500	670	84,25	78	60	1365,7	2950,3		4,7	4,7	77	2
10079/500K		500	670	85	78	60	1365	2950		4,7	4,7	77	2
71/500M		500	720	110	100	82	2176	4296		6	6	136	2
10077/ 500M		500	830	150	145	104	3698	6615		7,5	7,5	305	2
77/520M		520	740	95	86	70	1561	3304		2,5	6	118	2

Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R min, мм	r min, мм		
10079/ 530M		530	710	87	82	62	1555	3274		4,7	4,7	90,6	2
10079/ 560KM		560	750	91,5	85	64	1625,7	3542,1		4,7	4,7	105	2
10079/ 560JIM		560	750	91,5	85	64	1561	3351		4,7	4,7	102,7	1
10079/560		560	750	92,5	85	64	1625	3542		4,7	4,7	105	2
71/560M		560	820	121	115	84	2751	5323		6	6	194	2
77/560M		560	820	140	120	105	2963	5788		7,5	7,5	229	2
10077/ 560M		560	920	166	160	115	4435	8251		7,5	7,5	397	2
71/600M		600	870	124	118	88	3082	6235		6	6	232	2
10079/ 630M		630	850	108	100	78	2385	5192		6	6	164	2
71/630M		630	920	135	128	94	3402	7003		7,5	7,5	278	2
10077/ 670M		670	1090	192	185	135	6179	11716		7,5	7,5	630	2
10079/710M 1	BT1B 332890/HA1	710	950	114	106	80	2584	6108		6	6	209	2
71/710M		710	1030	150	140	110	4173	8855		7,5	7,5	397	2
10079/800M		800	1060	122	115	89	2139	7648		6	6	275	2
71/800M		800	1150	162	155	115	4781	10215		7,5	7,5	498	2
10078/850M		850	1030	90	82	62	1942	5290		4,7	4,7	141,2	2
20078/850X M		850	1030	106	98	82	2607	7359		4,7	4,7	175	2
10079/850M		850	1120	126	118	87	3442	8243		6	6	310	2
10079/900A	BT1B 328214/HA5	900	1180	124	122	87	3392,3	8809,1		6	6	339	2
10079/900A XM	BT1B 328214/HA5	900	1180	124	122	87	3425	8920		6	6	368,9	2
71/900M		900	1280	190	170	135	6212	14060		7,5	7,5	687	2
10079/950M		950	1250	140	132	100	4311	10408		7,5	7,5	433	2
20078/1320 M		1320	1600	176	165	142	6332	20560		6	6	719	2
20079/1320 M		1320	1720	238	230	175	9622	28435		7,5	7,5	1431	2
20079/1320 M1		1320	1720	238	230	175	9844,2	29319,3		7,5	7,5	1447	2
20079/1320 M2		1320	1720	238	230	175	9569,5	28233,4		7,5	7,5	1431	2
20079/1320 KM		1320	1720	238	230	175	9622,6	28435,1		7,5	7,5	1431	2
77/1400		1400	1820	278,5	280	225	12995	38977		9,5	9,5	1931	2
77/1500		1500	1950	298,5	300	255	15990	47834		9,5	9,5	2432	2
10079/1800 M1		1800	2300	257,5	218	180	11815	34166		12	12	2360	2

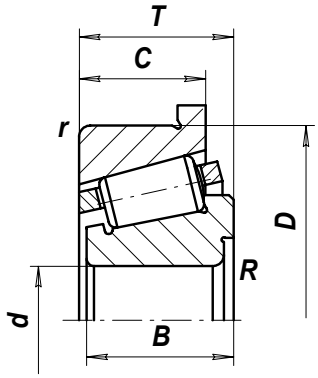
Single row flanged outer ring



Drawing 1



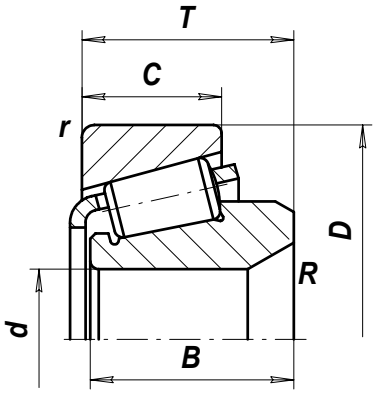
Drawing 2



Drawing 3

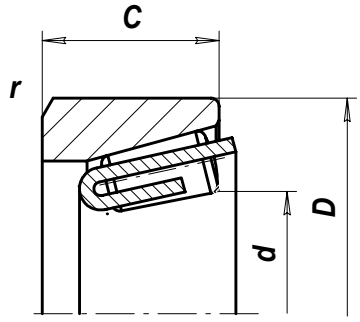
Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
67512A1		60	110	29,75	28	24	130	165	4000	2	1,5	1,22	1
67714		70	120	44,5	42	37	138	198	3600	2,5	2,5	2	1
67819		96,838	149,225	31,75	28,971	24,608	145	216	2900	3,42	1,5	1,93	1
67728KM		140	230	57,25	57	45	416	672	1800	3	3	9,04	1
	LM545848/ LM545810B	234,848	314,325	57,467	53,975	36,512	435	916	1100	3,6	2,9	11,1	1
	LM565949/ LM565910B	381	522,288	85,724	84,138	61,912	1360	2980		6,4	3,3	46,9	1
679/622		622,3	725,487	46	46	34	595	1683		4,7	4,7	32,6	2
677/648XM		647,7	736,6	31,75	31,75	25,4	367	1010		2,3	2,3	20,74	2
677/730		730	840	35	33	25	530	1441		2,3	2,3	27,9	3
677/737XM	LL 582949/ LL582910B	736,6	825,5	31,75	31,75	25,4	381	1107		2,3	2,3	23,4	2
70678/800M		800	980	57	57	47	892	2280		3,7	3,7	92,4	2
677/850M		850	960	36	34	26	503	1416		2,3	2,3	31,8	3
677/965		965	1100	54	50	43	991	2937		2,3	2,3	63,2	2
677/1000		1000	1110	40	35	30	530	1605		2,3	2,3	40,2	2

Srecial design single row tapered roller bearings



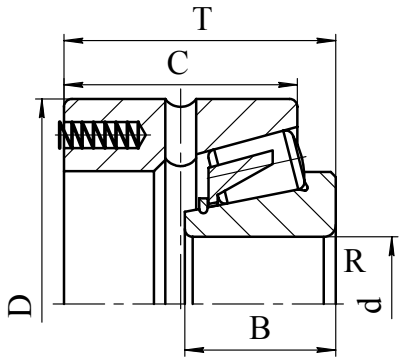
Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
7806A	32	72	29,75	28,5	15	45,98	48,5	6300	5	1,3	0,454

Single row tapered roller bearings without cone



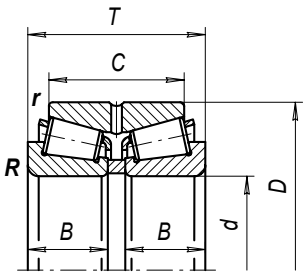
Designation	Dimensions, mm			Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
987910K	40,62	68	19,5	39	39	3800	0,7	0,309	

Taper roller bearings with springs on cap back fase

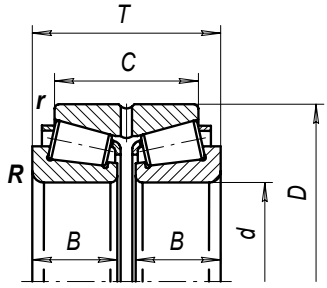


Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius R_{min}, мм	Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)			
6-17722JI	110	170	73	39,5	63,5	175	273	3000	2,5	4,91

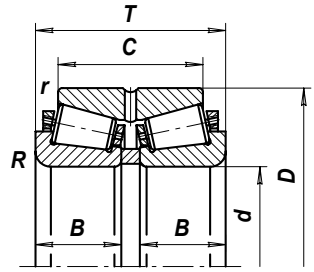
Double row tapered roller bearings



Drawing 1



Drawing 2



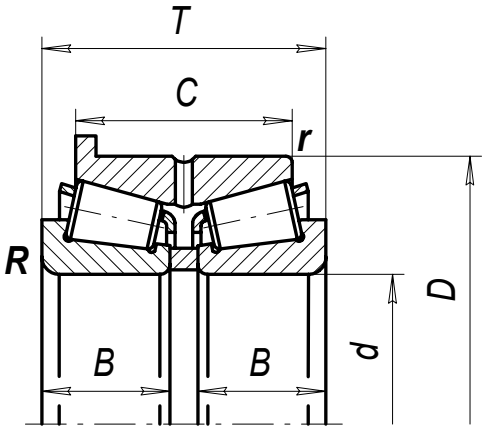
Drawing 3

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
97507A	35	72	54,625	23	46	125	170	5500	1,5	0,5	0,981	1
57707AУ	35	80	57	23,3	45	109	154,3	4800	1,5	0,3	1,25	2
97508K	40	80	54,625	23,5	45	107	140	5000	1,3	0,5	1,209	1
97508A	40	80	55	23	45	126	171	5000	1,5	0,5	1,17	1
297308AKУ	40	90	55,625	23	40	119	154	4600	1,8	0,3	1,7	1
97510A	50	90	54,625	23	45	144	208	4200	1,5	0,5	1,4	1
97511KM	55	100	59,625	25	48	152	210	3800	1,8	0,5	1,78	1
97511A3	55	100	59,625	25	48	174	248	3800	2	0,5	1,87	1
97512A1	60	110	64,625	28	55	223	331	3500	1,8	0,5	2,487	1
97814У	70	110	38	16	28	85	129	3270	1,1	1,1	1,23	1
2097115	75	115	55,625	24	44	137	235	3400	1,3	0,3	1,89	1
97515A	75	130	74,625	31	62	279	431	2800	2	0,5	3,8	1
97518A1	90	160	95,25	40	78	255	347	2700	2,3	0,7	7,39	1
97718A	90	161,95	99,25	42	82	437	694	2330	3	1,1	10	1
97519A	95	170	107,25	43	90	481	792	2200	3	0,9	9,3	1
97520A	100	180	111,25	46	92	558	909	2000	3	0,9	10,9	1
97720M	100	190	124,25	55,3	100	617	1029	1950	2,5	0,9	14,8	1
897720M	100	190,5	124,25	55,3	100	617	1029	1980	2,5	0,9	14,8	1
97820	101,6	168,275	91,25	40	70	354	646	2160	3	1,1	8,5	1
97521	105	190	117,25	50	96	578	990	1970	2,5	0,9	13,74	1
2097724M	120	200	109,25	48	90	552	967	1950	2,3	0,7	11,7	1
97524A	120	215	135,25	58	112	835	1465	1720	3	0,9	19,531	1
97825A	127	206,4	107,25	47	83	534	1042	1700	2,5	0,5	13,08	1
97925M	127,025	235	144,25	65	115	778	1314	1550	2,3	1,1	25,3	1
2097726M	130	210	109,25	48	90	598	1095	1850	2,3	0,7	13,6	1
2097726KM	130	210	109,25	48	90	599	1095	1850	2,3	0,7	13,5	1
97526A	130	230	150	64	120	917	1770	1600	4	1,1	25,4	1
97726M	130	235	144,25	65	115	778	1314	1550	2,3	1,1	24,5	1
97927	133,375	215,925	105,65	45,7	81	538	980	1600	2,5	1,1	13,7	1
97727	135	220	105,85	46,5	81	548	1011	1600	2,5	0,9	13,5	1
97928	136,545	190,525	84,95	38,35	73	350	800	1750	2,5	0,9	7,12	1
2097930	150	210	84,25	36	70	347	763	1700	2,3	0,7	8,41	1
2097730M	150	250	137,25	60	112	838	1513	1400	2,5	0,9	25,8	1
2097730KM	150	250	137,25	60	112	839	1516	1400	2,5	0,9	25,7	1
2097730JIM	150	250	137,25	60	112	839	1517	1550	2,5	0,9	25,4	1
97830M	150	254	144,25	63,5	110	839	1516	1400	3,7	0,9	27,7	1
97730M	150	255	144,25	63,5	110	839	1516	1400	3,7	0,9	28	1
97530M	150	270	171,25	74	138	1174	2115	1300	3	1,1	39,1	1
97930M	152,4	270	117,25	45	96	630	925	1350	3	1,1	24,8	1
97931	152,425	244,5	107,25	47	80	560	1000	1400	2,5	0,9	17,6	1
2097132	160	240	114,25	48	94	661	1294	1570	2,5	0,9	16,5	1
97732M	160	270	139,25	63	110	1001	1830	1300	2,5	0,9	30,4	1
2097732M	160	270	149,25	66	120	1000	1920	1400	2,5	0,9	34,9	1
2097732JIM	160	270	149,25	66	120	1000	1920	1400	2,5	0,9	39,8	1

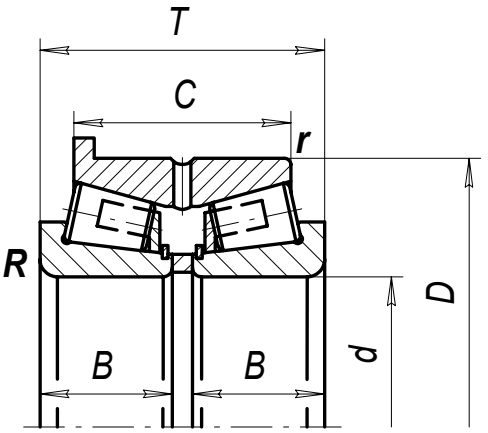
Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
97936XM	177,8	288,925	142,875	64,8	111,125	968	1754	1450	2,2	2	33,2	1
2097936K	180	250	94,25	42	76	530	1122	1450	2,3	0,7	13,2	1
2097936M	180	250	94,25	42	76	531	1123	1450	2,3	0,7	13,2	1
2097136M	180	280	133,25	60	108	904	1754	1350	2,5	0,9	27,9	1
97736M	180	285	107,25	46	79,4	648	1112	1200	2,5	0,9	22,1	1
2097736M	180	300	163,25	72	134	1206	2342	1300	3	1,1	43,2	1
2097938	190	260	94	42	76	551	1199	1350	2,3	0,7	13,5	1
2097738M	190	320	171	78	134	1259	2394	1200	3	1,1	51,5	1
2097940M	200	280	117	48	97	691	1572	1300	2,5	0,9	20,8	1
2097940K	200	280	117	48	97	691	1573	1300	2,5	0,9	20,8	1
2097140M	200	310	151	66	123	1093	2282	1200	2,5	0,9	39,2	1
2097140KM	200	310	151	66	123	1094	2283	1200	2,5	0,9	39	1
2097740M	200	340	183	82	150	1567	3041	1100	3	1,1	61,5	1
2097740KM	200	340	183	82	150	1567	3042	1100	3	1,1	61,4	1
97841M	205	317,5	149	67	110	1004	2093	1065	3,7	1,3	40	1
97741M	205	320	149	67	110	1004	2093	1060	3,7	1,3	41	1
2097944M	220	300	109	48	88	731	1739	1180	2,5	0,9	21,4	1
2097144M	220	340	164	72	130	1314	2615	1100	3	1,1	47,05	1
2097144JIM	220	340	164	72	130	1314	2615	1200	3	1,1	50,5	1
2097144A	220	340	164	76	130	1415	2940	800	3	1,1	49,3	1
97744JIM	220	340	99	45	75	768	1393	830	2,5	0,9	29,3	1
2097744M	220	370	199	88	166	1765	3398	1040	3,7	1,3	76,2	1
97745M	225	360	145,5	65	111	1158	2249	950	3	1,1	51	1
97746M	230	355	144	65	110	1158	2249	950	4,7	1,8	44,6	1
2097948	240	320	109	48	90	749	1838	1100	2,5	0,9	22	1
2097948K	240	320	109	48	90	750	1838	1100	2,5	0,9	21,93	1
2097148M	240	360	164	72	130	1351	2932	1000	3	1,1	52,9	1
97748M	240	370	119	55	86	933	1608	900	4,7	1,8	38,8	1
2097748M	240	400	209	95	168	1942	3844	940	3,7	1,3	96,3	1
2097748KM	240	400	209	95	168	2017	4036	940	3,7	1,3	96,2	1
2097952M	260	360	133	60	109	1082	2460	950	2,5	0,9	38,3	1
2097952KM	260	360	133	60	109	1082	2458	950	2,5	0,9	38,1	1
2097952M1	260	360	133	67	109	1082	2460	950	2,5	0,9	38,3	1
7097152M	260	400	103	44	78	790	1453	830	3	1,1	40,8	1
97852M	260	400	149	67	110	1356	2555	830	4,7	1,8	59,4	1
2097152K	260	400	185	82	146	1717	3660	900	3,7	1,3	75,6	1
2097152JIM	260	400	185	82	146	1717	3660	900	3,7	1,3	81,5	1
2097152M1	260	400	185	93	146	1715	3660	900	3,7	1,3	76,8	1
97752M	260	430	179	82	130	1527	2920	800	7,5	1,8	92,3	1
2097752M	260	440	224	106	180	2411	4663	850	3,7	1,3	126	1
7097156M	280	420	110	47	84	1127	1900	770	3,7	1,3	43	1
2097156M	280	420	188	82	154	1814	3822	860	3,7	1,3	82,5	1
2097156A	280	420	188	87	144	2062	4620	840	5	1,3	84	1
2097960M	300	420	159	72	128	1446	3440	830	3	1,1	62,4	1
2097960JIM	300	420	159	72	128	1447	3440	830	3	1,1	71,7	1
97860M	300	440	139	58	100	1187	2354	730	4,7	1,8	60,7	1
2097160M	300	460	214	95	178	2140	4764	750	3,7	1,3	119	1
97760M	300	500	179	82	125	2062	4015	560	7,5	1,8	132,3	3
1097760M	300	500	204	90	152	2274	4332	740	4,7	1,8	142,2	1
97766M	330	560	179	82	150	2197	4511		7,5	1,8	178,7	3
2097968M	340	460	159	72	128	1541	3885		3	1,1	71	1
97768M	340	500	154	66	110	1709	3531		4,7	1,8	91,5	3
297868A	340	520	149	64	90	1155	2960		17	4,7	108	1
297868XMУ	340	520	149	64	90	1095	2755		17	4,7	111	1
97168	340	520	179	82	135	2014	3981		4,7	1,8	118	1
1097768M	340	580	241	106	170	3099	5823		4,7	1,8	221,5	1
97770M	350	590	199	88	140	2798	5606		9,5	1,8	207	3
2097972M	360	480	159	72	128	1577	4067		3	1,1	74,4	1
2097972KM	360	480	159	72	128	1577	4068		3	1,1	74,23	1
2097972JIM	360	480	159	72	128	1577	4067		3	1,1	96,2	1
97772M	360	530	154	66	110	1775	3622		4,7	1,8	104	3
97172	360	540	184	82	140	2087	4236		4,7	1,8	127	1
97172JIM	360	540	185	82	140	2087	4236		4,7	1,8	132	1
97773M	365	535	179	81	136	2285	4778		3,7	2,3	119	3
1097976K	380	520	149	65	112	1534	3468		3,7	1,3	84,1	1
1097976M	380	520	149	65	112	1512	3403		3,7	1,3	84,4	1
1097776JIM	380	620	241	106	170	3139	6099		4,7	1,8	251	1
1097980JIM	400	540	149	65	112	1570	3626		3,7	1,3	88,2	1

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
97936ХМ	177,8	288,925	142,875	64,8	111,125	968	1754	1450	2,2	2	33,2	1
97780М	400	590	184	81	125	2314	5011		4,7	1,8	150,7	3
97180	400	600	205	90	150	2632	5665		4,7	1,8	179	1
1097780М	400	650	253	112	190	4060	7974		6	2,5	306	3
1097780КМ	400	650	253	112	190	4060	7970		6	2,5	308	3
97184	420	620	205	90	150	2652	5807		4,7	1,8	187	1
97784М	420	620	189	85	125	2415	5399		4,7	1,8	172	3
1097784М	420	700	274	122	200	4553	9344		6	2,5	400	3
1097784КМ	420	700	274	122	200	4554	9344		6	2,5	401,6	3
97188	440	650	211	94	152	2716	6086		6	2,5	213	1
1097992К	460	620	174	74	131	2119	5010		3,7	1,3	131	1
1097992КМ	460	620	174	74	131	2119	5009		3,7	1,3	131	1
97192	460	680	229	100	175	3247	6985		6	2,5	248	1
1097996Л	480	650	179	78	130	2138	5154		4,7	1,8	168	1
1097996ЛМ	480	650	179	78	130	2138	5155		4,7	1,8	168	1
97798М	490	640	179	81	144	2145	5947		7,5	2,3	140	1
10979/500М	500	670	179	78	130	2341	5900		4,7	1,8	166	3
971/500	500	720	235	100	180	3731	8593		6	2,5	289	3
10977/500М	500	830	325	145	234	6341	13230		7,5	3	650	3
977/520М	520	740	188,5	86	120	2677	6609		2,5	2,5	230	3
10979/530У	530	710	188	82	136	2666	6548		4,7	1,8	193,6	3
10979/530М	530	710	188,5	82	136	2666	6548		4,7	1,8	193,4	3
977/540М	540	790	188,5	87	130	3003	7061		6	1,1	296	3
10979/560М	560	750	211,5	85	156	2787	7084		4,7	1,8	237,6	3
10979/560КМ	560	750	211,5	85	156	2787	7084		4,7	1,8	236,5	3
971/560ЛМ	560	820	258,5	115	185	4369	9616		6	2,5	445	1
971/560М	560	820	258,5	115	185	4716	1065		6	2,5	414	3
977/560М	560	820	268,5	120	190	5080	11575		7,5	2,5	451	3
10977/560М	560	920	350,5	160	250	7603	16502		7,5	3	824,8	3
10979/600М	600	800	208,5	90	160	3446	9183		4,7	1,8	283	3
971/600	600	870	268,5	118	198	5284	12470		6	2,5	497	3
979/610	609,6	812,8	189	82,5	146	2896	7523		6	2,5	257	3
10979/630М	630	850	240,5	100	182	4089	10385		6	2,5	361	3
971/630	630	920	293,5	128	213	5832	14006		7,5	3	597	3
10977/670КМ	670	1090	408,5	185	296	1059	2342		7,5	3	1326	3
10979/710М	710	950	238,5	106	175	4430	12217		6	2,5	445,1	3
10979/710КМ	710	950	238,5	106	175	4430	12217		6	2,5	443	3
971/710	710	1030	313,5	140	220	7154	17711		7,5	3	809	3
977/720М	720	915	188,5	82	140	3334	8705		2,3	4,7	284	3
977/725М	725	915	188,5	82	140	3334	8705		2,3	4,7	283	3
10979/800М	800	1060	268,5	115	204	5383	15297		6	2,5	604	3
971/800М	800	1150	348,5	155	256	8089	20431		7,5	3	1067	3
10979/850М	850	1120	266	118	190	5901	16486		6	2,5	650	3
10979/950М	950	1250	298	132	220	7392	20816		7,5	3	919	3

Double row tapered roller bearings with double cone



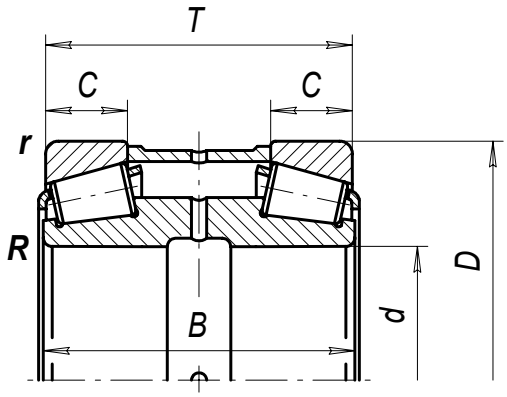
Drawing 1



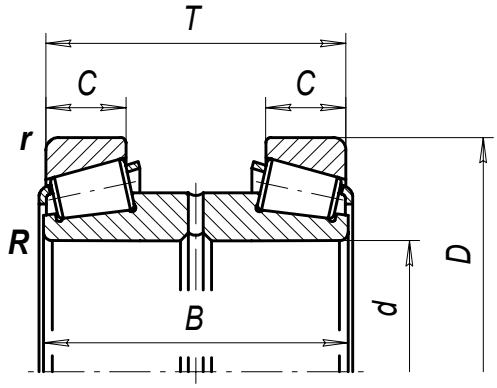
Drawing 2

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
697306КУ	30	72	47	19	33	66	74	5760	1,3	0,5	0,894	1
697510	50	90	54,625	23,5	45	126	193	4200	1,3	0,5	1,44	1
697920Л	98,425	159,4	92	42	75,8	321	531	2100	2,5	0,5	5,55	2
697724Л	120	188	96,8	44	80,5	370,2	681,6		2,5	0,8	7,96	2

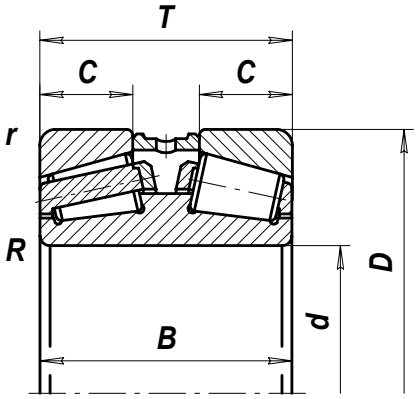
Tapered roller bearings with double cup



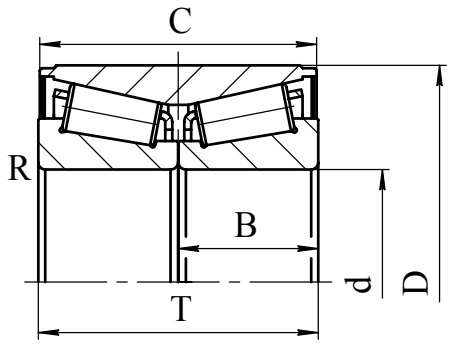
Drawing 1



Drawing 2



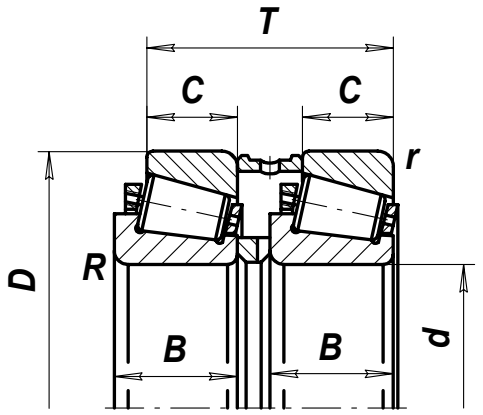
Drawing 3



Drawing 4

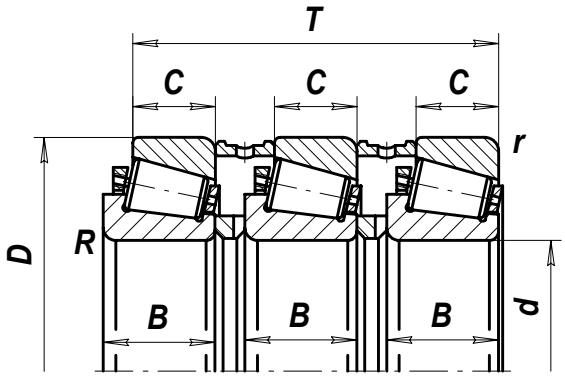
Designation	International designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg	Drawing number
		d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
6-257906C17		30	60	37	18,5	37	63	82	4459	2,2		0,47	4
847929M		146,075	241,325	164,25	165	41	610	1196	1500	2,3	3,7	28,8	1
747746M		230	330	202	196,85	39	774	1494	1000	1,1	3	38	2
847951M	BT2B 328615	254,025	422,325	171,2	160	68	2167	4177	800	1,3	2,5	94,3	1
47752M		260	420	169	170	70	1908	3779	800	3,7	3,7	88,5	2
847156JI		280	420	129	130	44	1100	2300	640	3,7	3,7	61,9	3
847156JIM1		280	420	129	130	44	1105	2344	640	3,7	3,7	66,4	3
847156KM		280	420	129	130	44	1246	2743	640	1,8	3,7	61,8	3
847156JIMT2		280	420	129	130	44	1105	2344	640	5	5	61,9	3
847156JIM2		280	420	129	130	44	1105	2344	640	5	5	59,7	3
847156KJIM		280	420	139	70	44	1105	2344	640	5	5	67,5	3
847156KJIM1		280	420	149	69	44	1105	2344	640	5	5	66,3	3
847164JIM		320	480	149	150	52	1473	3264		3,7	3,7	95,4	3
847180JIM		400	600	189	190	63	2234	5087		4,7	4,7	184	3
847792M		460	730	199	200	86	4162	8378		2,3	4,7	332	3
47792M		460	760	199	200	86	4162	8378		2,3	4,7	368	2
40471/500M		500	720	217	185	75	2368	5346		6	6	260	3
8471/560XM		560	820	240,5	242	80	3638	9001		6	6	440	3
8479/610	614609	609,65	812,88	189	190,5	62	2863	7410		2,5	6	271,5	3
8477/710M		710	1150	378,5	380	130	10084	23389		9,5	9,5	1581	3
48479/750M		750	1000	248,5	250	100	6074	17486		6	6	566	3
8477/750M		750	1220	403,5	405	170	1465	3424		9,5	9,5	1954	3
8477/800M		800	1060	228,5	230	89	5353	15187		6	6	568	3
8471/900XM		900	1280	358	320	135	10623	28024		7,5	7,5	1404	3
48471/1180XM		1180	1660	473	450	180	17665	54689		9,5	9,5	3331	3

Duplex tapered roller bearings



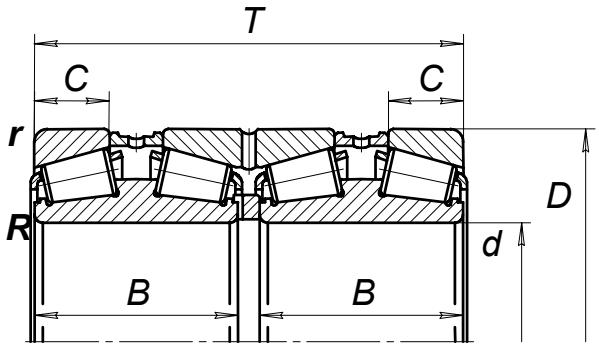
Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
1527360M	300	620	315	140	92	3984	6996	450	7,5	7,5	402

Triplex tapered roller bearings for axle box



Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
1327360M	300	620	475	140	92	5461	10494	350	7,5	7,5	611

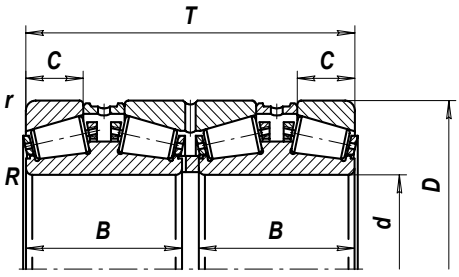
Four row tapered roller bearings



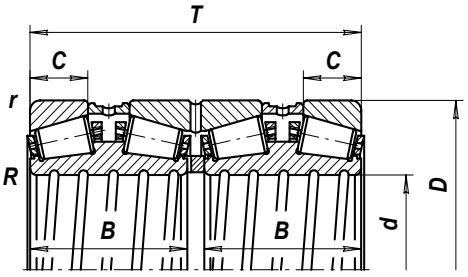
Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
77930M	152,4	222,25	174,625	83,6	35	930	2319	1000	2,5	2,5	22,6
77140XM	200	310	200	93	36,5	1440	3000	730	2	2	53,1
2077140M	200	310	273,5	132	56	1875	4565	730	2,5	2,5	75,8
77741M	205	320	203,5	96	36	1355	2664	700	3	3	55,81
2077144JIM	220	340	303,5	146,5	59	2253	5230	660	4	4	104
2077148M	240	360	308,5	149	62	2313	5853	600	3	3	108,7
77748M	240	410	268,5	128	50	2479	4955	570	3,7	3,7	144
77951	254	358,78	269,88	130,1	54	2210	6020	570	3	3	84,7
77752M	260	400	253,5	119	47	2048	4775	550	3,7	7,5	111
77752JIM	260	400	253,5	119	47	2048	4775	550	5	10	147
2077152M	260	400	343,5	167,2	71	2943	7321	550	3,7	3,7	151
777752XM	260	440	298,5	140	50	3077	6982	510	2,3	4,7	164
777752XJIM	260	440	298,5	140	50	2210	4570	600	2,3	4,7	178,7
777752XJIM1	260	440	300	140	55	2600	5500	600	2,3	4,7	182
777752XJIM2	260	440	300	140	55	2600	5500	600	3	6	187
77953XM	266,7	355,6	228,7	111	45	1570	4580	590	1,3	2,5	62,5
2077156M	280	420	343,5	165,5	71	3111	7645	520	3,7	3,7	159
2077156JIM	280	420	343,5	165,5	71	3100	7650	600	3,7	3,7	166,5
1077756M	280	460	322,5	154	62	3187	7067	480	4,7	4,7	193
77856M	280	500	313,5	150	60	3424	6962	490	4,7	4,7	254
3077256M	280	520	338,5	156	62	3603	7357	460	4,7	4,7	304
77757M	285	410	245	112,2	42	2177	5435	500	3	3	104,5
2077960XM	300	420	288,5	137	56	2600	7406	500	3	3	123
2077160M	300	460	388,5	188	82	3669	9529	470	3,7	3,7	238
77760M	300	500	348,5	165	64	3326	7371	450	4,7	4,7	259
77961XM	304,7	438,1	278,5	135	54	2751	7243	490	2,3	3,7	136
330758BG	304,902	412,648	266,7	128,588	53,975	2700	7200		4	3,3	100,6
2077164M	320	480	388,5	188	82	3783	10107		3,7	3,7	242
77766M	330	580	358,5	172	68	4619	9806		4,7	4,7	408
77868XM1	340	510	420	203	83	5250	13695		3	6	296,4
77168M	340	520	323,5	155	63	3413	7843		4,7	4,7	233
77968XM	343,1	457,1	252,5	122,2	49,212	2257	7081		1,3	3	116,8
77968XM2	343,052	457,098	252,5	122,238	49,212	2394	6744		2	3	110,4
777770M	350	590	418,5	200	80	5024	11827		2,3	4,7	473
77172XM	360	540	323,5	155	60	3557	8715		4,7	4,7	247
3077776M	380	620	386,5	184	75	4555	10532		4,7	4,7	448
1077776M	380	620	418,5	200	76	5442	12373		4,7	4,7	515
77976M	381	571,5	309,5	150	60	3364	8681		4,7	4,7	279

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ ($мин^{-1}$)	Chamfer radius		Weight, kg
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
77779XM	395	545	287,5	120	55	3161	9390		1,8	3,7	198
77779XKM1	395	545	287,5	120	55	3460	9200		2,5	5	196
77880XM	400	540	278,5	130	48	2578	7479		3,7	3,7	177
77184JIM	420	620	354,5	170	67	4547	11614		4,7	4,7	412
1077284XM	420	760	498,5	240	100	8760	19857		7,5	7,5	1057
77888XM	440	580	360	174	73	4720	15300		2,5	4	251
77888XM1	440	580	360	174	73	4720	15300		2,5	4	252
77888XM2	440	580	360	174	73	4720	15300		2,5	4	251
1077988M	440	600	318,5	151	58	3526	9517		3,7	3,7	253
77788M	440	650	353,5	172	67	5074	12535		4,7	6	410
777792M	460	730	438,5	210	80	6536	15902		3,7	7,5	672
1077792XM	460	760	518,5	250	99	9386	22528		7,5	7,5	1061
1077996M	480	650	336,5	159	60	3666	10309		4,7	4,7	304
77796XA	480	700	418,5	196	80	6639	18199		6	6	563,2
77196M	480	700	418,5	200	80	6284	16620		6	6	544
1077796M	480	790	528,5	256	101	9598	23517		7,5	7,5	1074
771/500M	500	720	418,5	202	82	6397	17187		6	6	564
771/500XM1	500	720	418,5	202	82	6397	17187		8	8	572
10777/500M1	500	830	568,5	272	104	10871	26460		7,5	7,5	1271
331157BG	514,35	673,1	422,275	211,138	105,569	7210	21600		3,3	6,4	399
778/520M	520	950	578	282	118	13602	31013		7,5	7,5	1910
779/530XM	530	710	398	188	78	6109	19640		1,5	5	435
778/530XMУ	530	780	450	213	85	8381	22968		5	5	778
30777/530M	530	880	542	260	100	9982	23867		7,5	7,5	1320
777/533M	533	810	448	208	78	8023	19498		6	6	791
778/540	540	690	400	190	78	5290	17750		3	6	368,5
778/540JIM2	540	690	400	190	78	5420	18460		3	6	373
10777/560M1	560	920	618	300	115	13750	32790		7,5	7,5	1656
779/600M	600	800	363	172,5	70	5909	18367		4,7	4,7	537
777/620M	620	800	363	171,5	71	6038	18971		2,3	4,7	481
777/620M1	620	800	363	171,5	71	6038	18971		3	6	482
779/630XM	630	850	424	200	78	7524	22754		3	6	690
771/630	630	920	513	245	94	10000	28013		7,5	7,5	1156
777/645M1	645	1030	558	273	113	15140	37230		7,5	12	1859
777/647M	647	1030	558	273	113	14704	35801		7,5	12	1845
777/650M	650	1030	558	273	113	14704	35801		7,5	12	1831
778/660M	660	855	318	152	60	5472	15975		3,7	7,5	470
777/660M	660	1070	648	312	135	16472	40390		7,5	7,5	2233
10777/670M2	670	1090	708	342	135	18162	46854		7,5	7,5	2654
10777/742M	742	1220	838	405	170	25054	68270		9,5	9,5	3907
778/750M	750	1090	578	279	111	13437	38488		7,5	7,5	1799
777/750M	750	1130	688	330	130	17290	49699		7,5	7,5	2480
10777/750M	750	1220	838	405	170	25119	68498		9,5	9,5	3917
10777/842XM	842	1360	910	440	182	28084	77802		12	12	5218
10777/850XM	850	1360	910	440	182	28142	78009		12	12	5208
778/1000M	1000	1420	800	385	160	26433	81665		7,5	7,5	4187
777/1000	1000	1580	800	385	150	27192	76267		12	12	922
778/1320	1320	1850	1027	500	205	40906	137758		9,5	9,5	8916

Four row tapered roller bearings with sectional cage



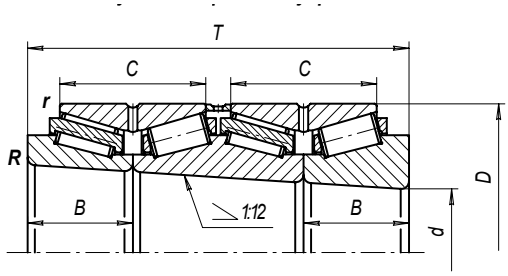
Drawing 1



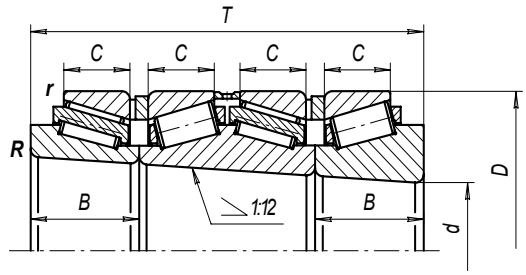
Drawing 2

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
787756XM	280	420	278,5	130	52	2635	6625	520	1,3	3,7	133	1
787768XM	340	520	398,5	190	77	4773	13154		4,7	4,7	313	1
777/431M	431,8	571,5	336,55	161,9	66,675	3819	11933		8,7	8,7	229,5	2
777/431TM1	431,8	571,5	336,55	161,9	66,675	3819	11933		8,7	8,7	229,5	2
787196XM	480	700	418,5	196	80	6551	17891		6	6	528	2
787196XKM	480	700	418,5	200	80	6551	17891		8	8	524	2

Ur row tapered roller bearings with tapered bore on cone



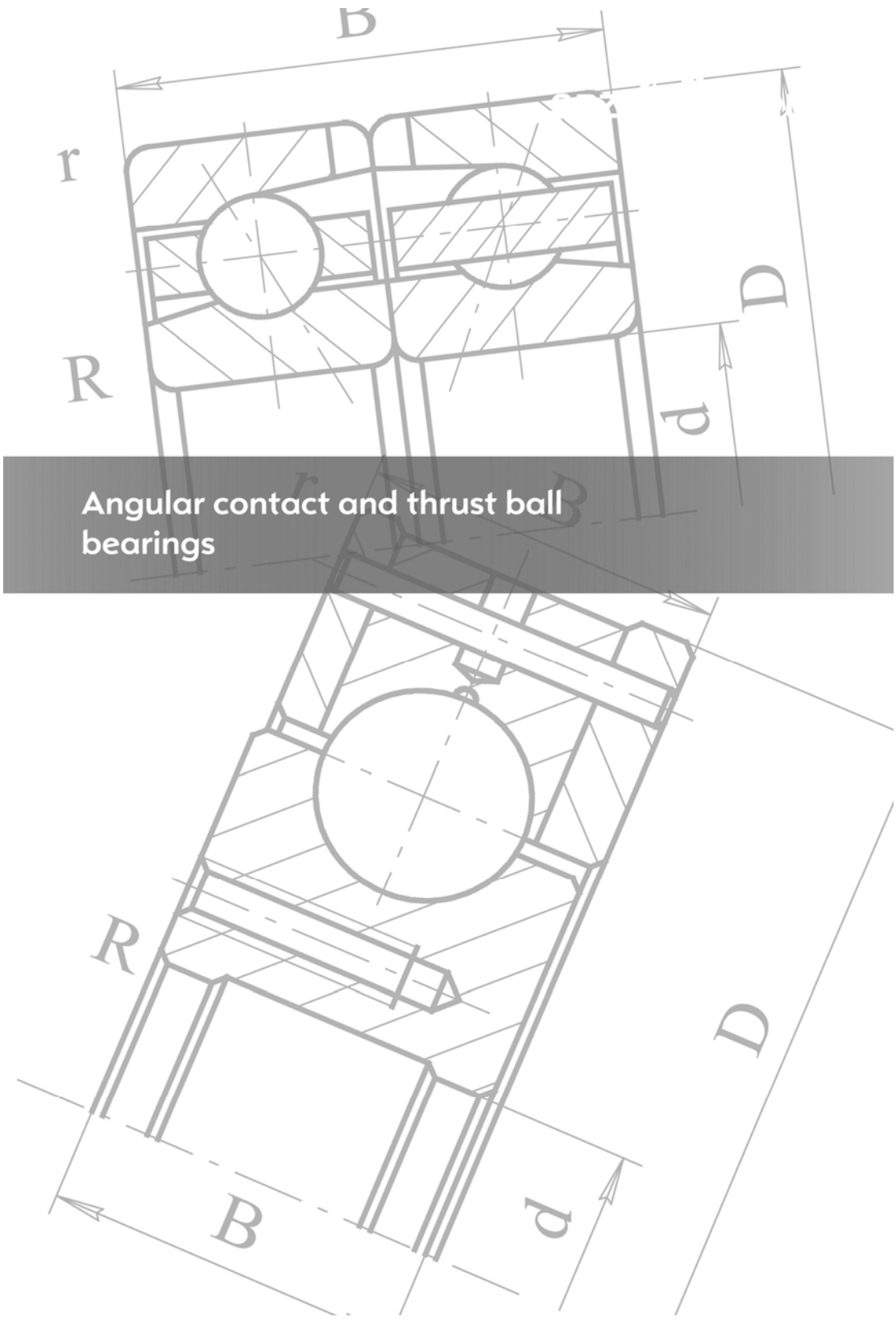
Drawing 1



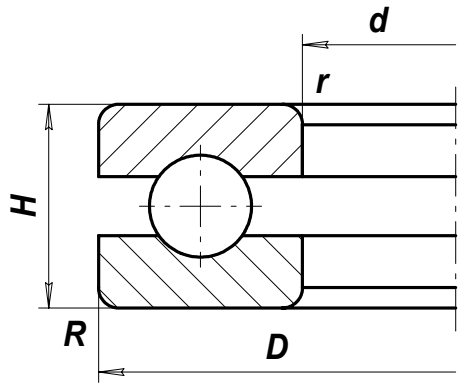
Drawing 2

Designation	Dimensions, mm					Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg	Drawing number
	d	D	T	B	C	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм		
477752ЛМ	260	440	328,5	87	128	2759	6583	500	3,7	1,3	195	1
477752ХМ	260	440	328,5	87	128	2759	6583	500	3,7	1,3	195	1
477756ХМ	280	420	278,5	72	105	2311	5875	500	3,7	1,3	141	1
577768ХМ	340	520	398,5	103	70	4005	10629		4,7	1,8	282	2
477780Л	400	540	278,5	72	104	2766	8222		3,7	1,3	174	1
577796ХМ	480	700	418,5	110	77	5443	15357		6	2,5	492	2
577796ХМ1	480	700	428,5	120,5	78	5440	15360		6	2,5	549,3	2
577796ХМ2	480	700	418,5	110	77	5900	17160		6	2,5	511	2

Angular contact and thrust ball bearings

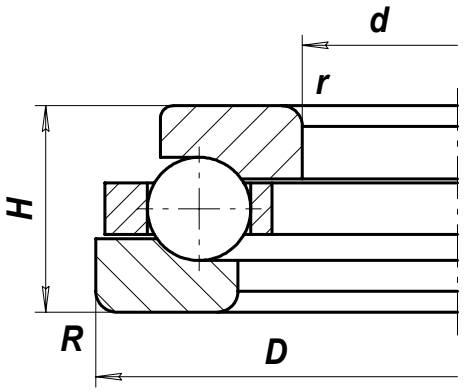


Thrust ball bearings



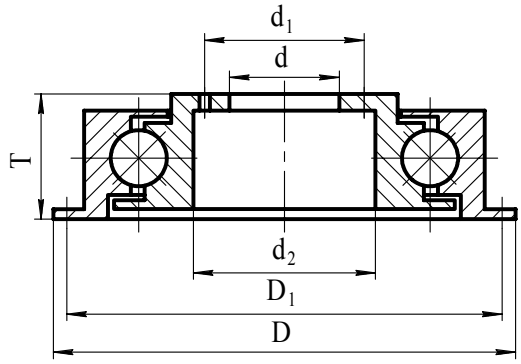
International designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
351006A	1250	1500	150	1430	16000	6	6	465
99-2550	2045	2215	100	575	2282	3	3	430

Angular contact ball bearings



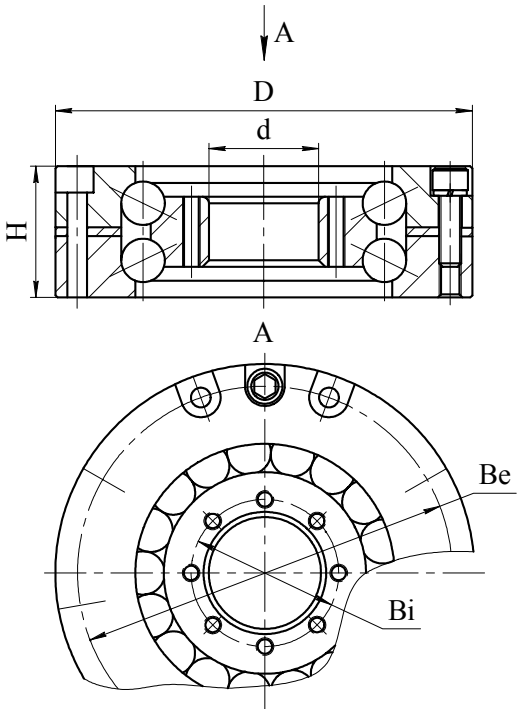
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
168762	310	510	100	4275	3214	2,3	2,3	55,5
31688 / 630XK	630	780	112	4000	5190	4	4	96,4
91682 / 670XK	670	900	140	7327	8137	6	6	183

Special design single row ball bearings



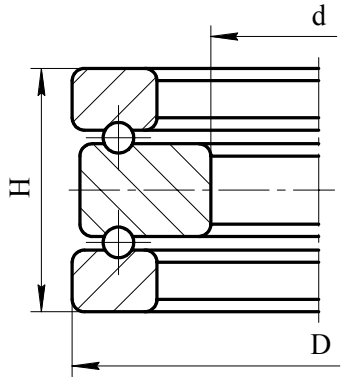
International designation	Dimensions, mm						Rated load capacity		Weight, kg
	d	d1	d2	D	D1	T	C (kN)	Co (kN)	
198 / 1094	984	1012	1055	1198	1170	56	226	738	72,9

Double-row angular contact ball bearings

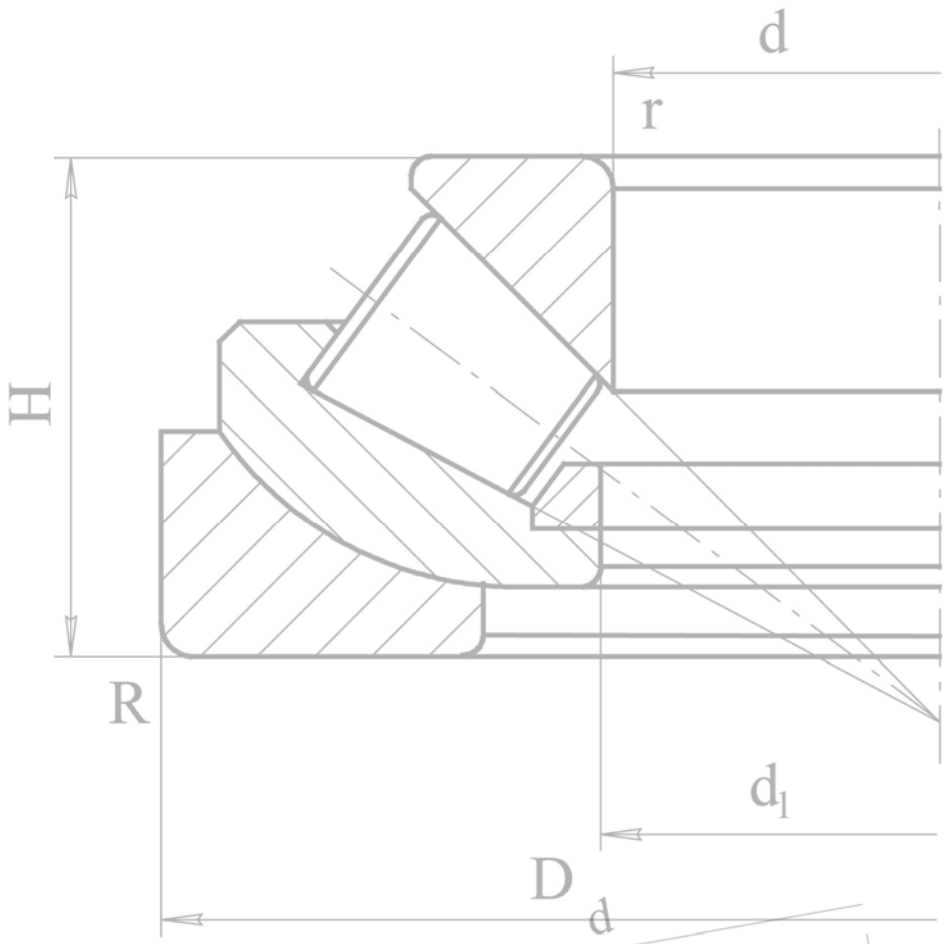


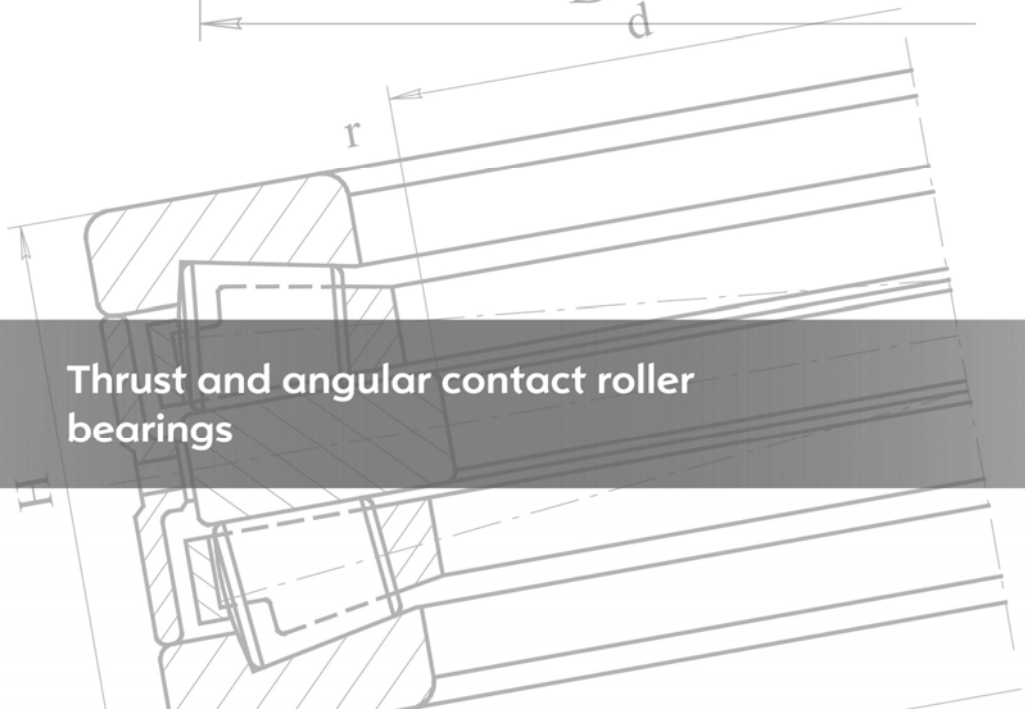
Designation	Dimensions, mm					Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	Bi	Be	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
38MP225.10.00	1190	1330	60	1210	1310	480	2188	2,5	2,5	91,7

Double direction thrust ball bearing



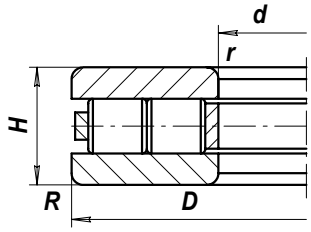
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
8944.53.81.450	705	760	78,84	172	1152	4	4	41,8



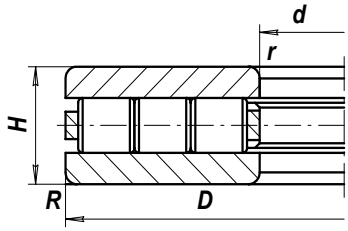


Thrust and angular contact roller bearings

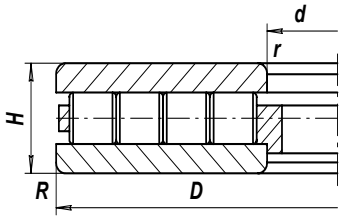
Cylindral roller thrust bearings



Drawing 1



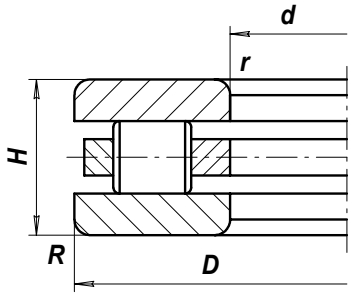
Drawing 2



Drawing 3

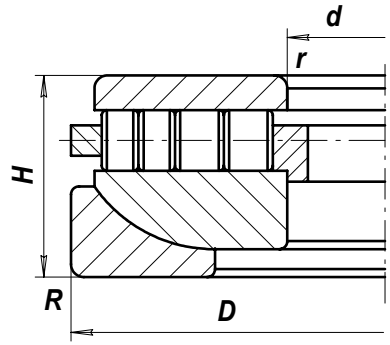
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg	Drawing number
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм		
889736	180	300	73	992,7	1883	3	3	22,5	1
889752AX	260	540	132	4200	7911	8	6	166	2
889752X1	260	540	132	4199	7910	8	6	172,7	2
889852X1	260	580	145	5386	10139	8	6	214	2
889764X	320	900	230	13937	27970	7,5	7,5	860	3
9889468K	340	620	170	5193	9417	10	7,5	246	2
9009580X	400	850	272	9159	17669	12	12	830	1
9889492X	460	800	206	5944	15181	9,5	9,5	505	2
9889492X1	460	800	206	5943	15181	9,5	9,5	505	2
8899/559	558,8	1066,8	286,13	4750	10700	7,5	7,5	1366	2

Cylindrical roller thrust bearings



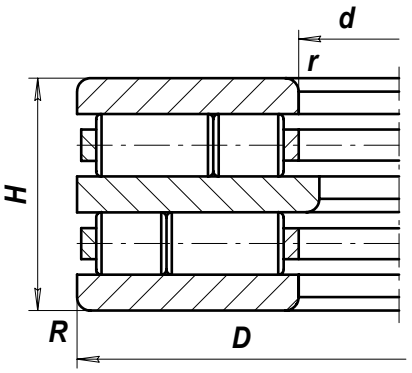
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
8097/1800X	1800	1950	160	2142	22350	3,7	3,7	532

Trust bearings with aligning seat washer

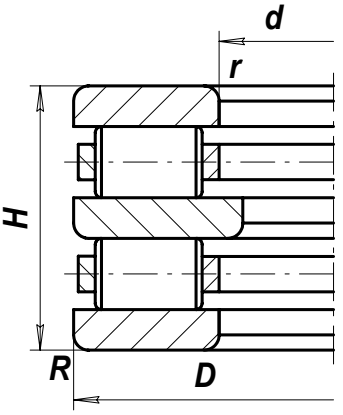


Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
969961	305	455	110	1273	3296	3	3	68

Duplex thrust bearings with cylindrical rollers



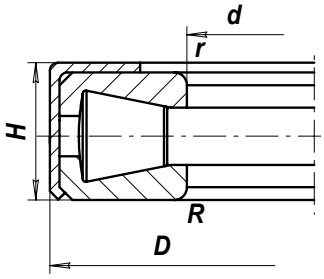
Drawing 1



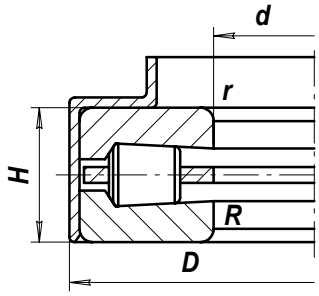
Drawing 2

Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg	Drawing number
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм		
89739K	155	280	105	1380	2550	2,5	2,5	26,3	1
89752K	220	370	140	2400	4800	2	2	57	1
89764K	270	430	165	3350	7500	2	2	82,3	1
597/750	710	950	290	5200	10600	6	6	648	2

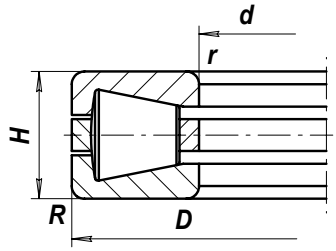
Tapered roller thrust bearings



Drawing 1



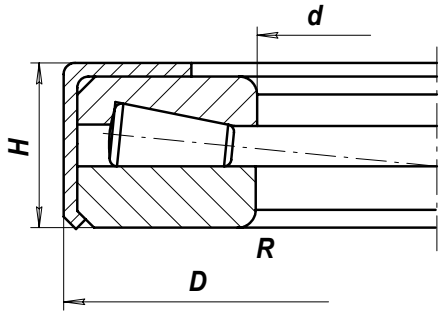
Drawing 2



Drawing 3

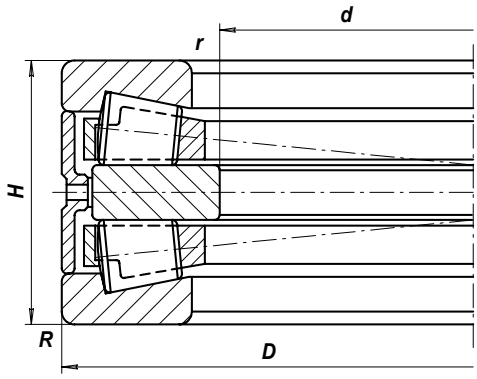
Designation	International designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg	Drawing number
		d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм		
29903К		16	41,3	12,7	29,8	60,1	1		0,087	1
99905		26	50	16	23,9	42,7	1,3	0,5	0,135	2
29908К1		38,4	72,9	21,34	90	227,6	1,3		0,393	1
19744ХУ	351148В	220	500	125	3700	8092	7,5	2,3	133,5	3
9019452А		260	480	132	3772	7111	6	6	110	3
19752ХУ		260	580	145	4938	11050	9,5	3	217,9	3
19760ХУ		300	670	170	6522	15074	7,5	7,5	342	3
9019464К		320	580	155	4302	7701	7,5	7,5	191	3
9019476К		380	670	175	5397	10175	7,5	7,5	285	3

Tapered rollers thrust bearings with banded rollers



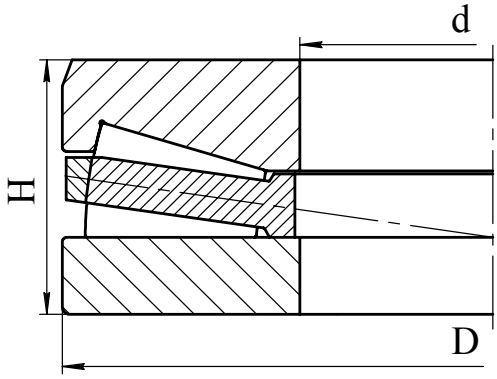
Designation	Dimensions, mm			Rated load capacity		Chamfer radius R_{min}, мм	Weight, kg
	d	D	H	C (kN)	Co (kN)		
29910K	50	78,6	17,5	91,2	157	1	0,333
229910K	50,2	81	15,9	105	371	1	0,337

Duplex tapered roller thrust bearings



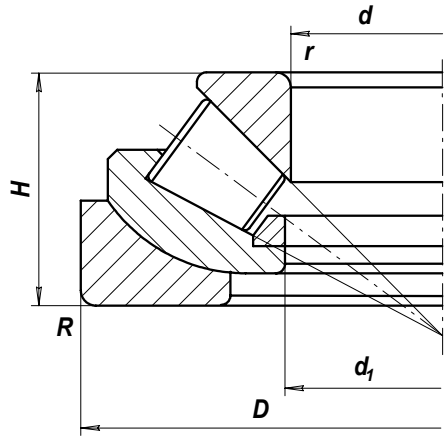
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
189757М	285	420	110	985	5170	1,5	1,5	55
189772ХМ	360	520	136	1397	7450	2,5	2,5	98
189892М	460	660	172	2253	12590	3	8	199
749794Л	470	720	210	3414	17635	2,3	3,7	311

Tapered roller thrust bearings



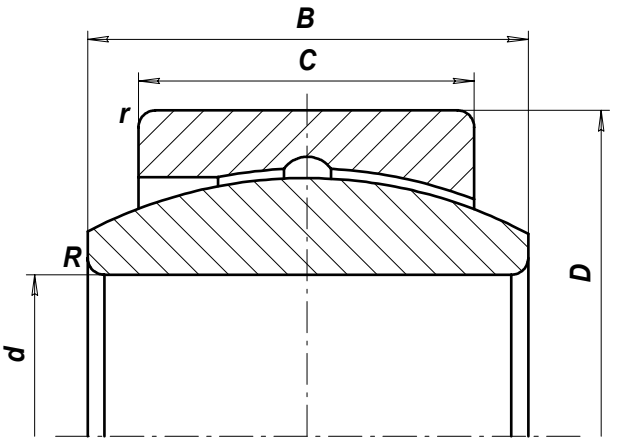
Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
49742	210	460	150	3107	11290	12	12	139,7

Angular contact roller bearing with spherical support

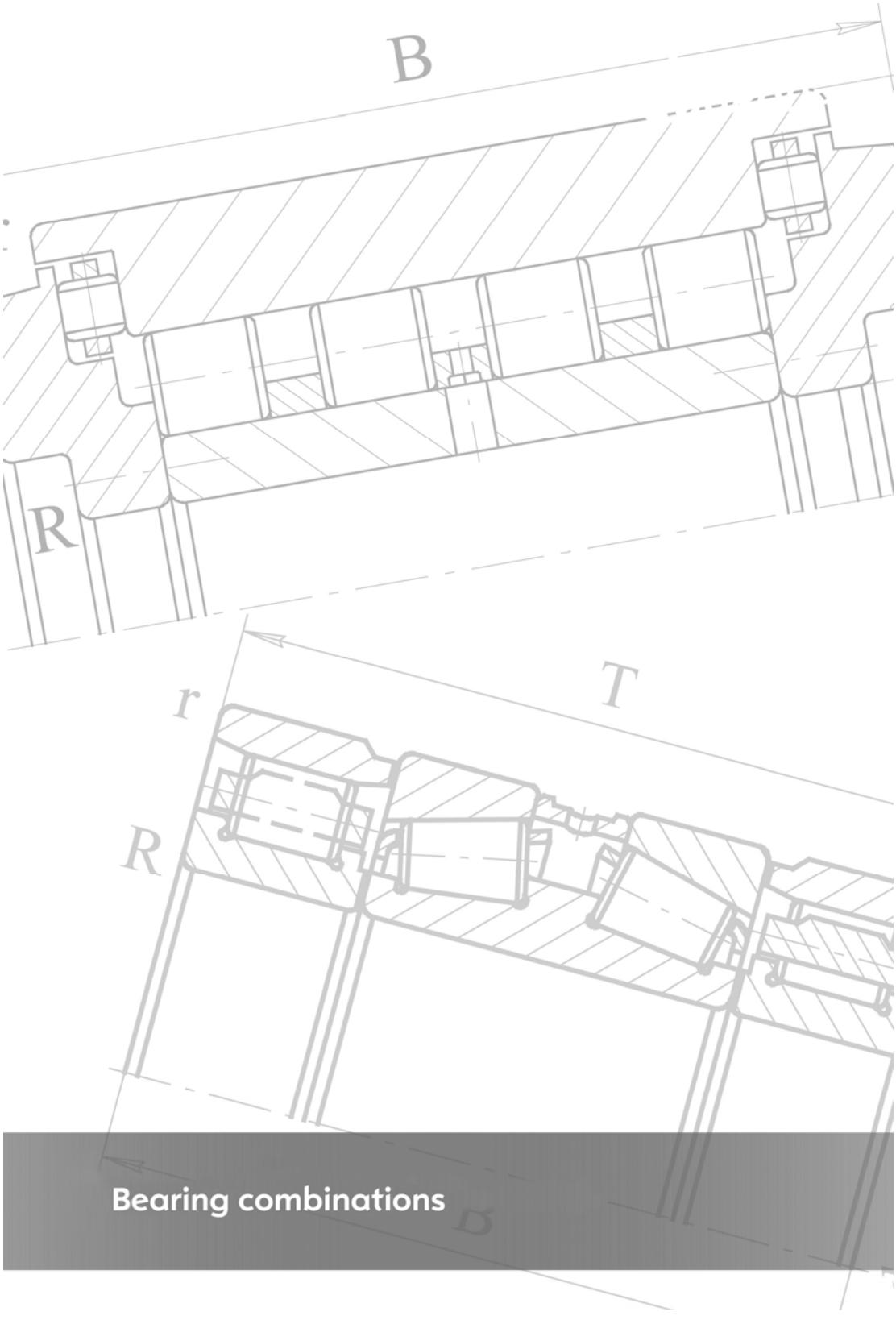


Designation	Dimensions, mm				Rated load capacity		Chamfer radius	
	d	d1	D	H	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм
969452A	260	261	480	132	1273	3296	6	6

Hinged bearing

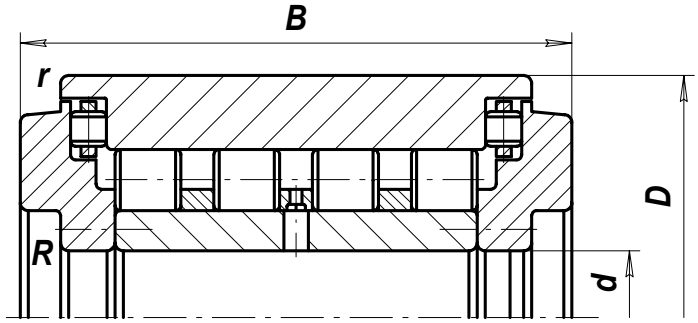


Designation	Dimensions, mm				Chamfer radius		Weight, kg
	d	D	B	C	R_{min}, мм	r_{min}, мм	
1-ШС160К	160	230	105	80	2,5	2	13,5
1-СШС320К1	320	440	160	135	1,1	3	78



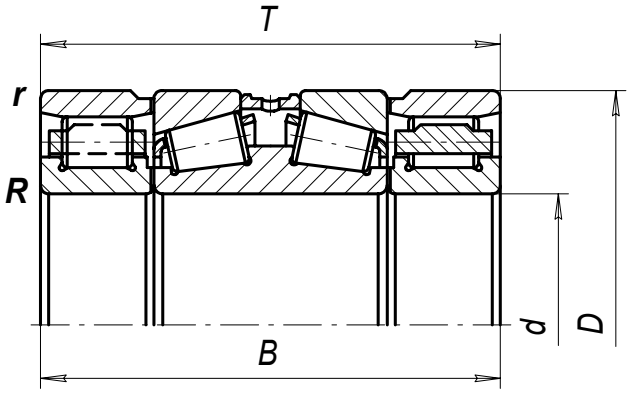
Bearing combinations

Bearings with short cylindrical rollers



Designation	Dimensions, mm			Rated load capacity		Chamfer radius		Weight, kg
	d	D	B	C (kN)	Co (kN)	R_{min}, мм	r_{min}, мм	
612888K	440	800	512	7835	21250	1,8	3,7	1223

Double-row roller bearings combination



Designation	Dimensions, mm				Rated load capacity		$n_{пред}$ (min^{-1})	Chamfer radius		Weight, kg
	d	D	T	B	C (kN)	Co (kN)		R_{min}, мм	r_{min}, мм	
77741МКУ	205	320	203,5	204,6	1490	2930	700	3	3	59,8

Additives and Lubricants

Science and technology center of the factory carries out the works aimed at improving lubricant materials and lubrication methods.

The work is being done in the following directions:

1. The development of a new effective anti-wear additive on a fluorinated graphite base for oil lubricated bearings. We have started a pilot production of this lubricant. The first case of using the new additive was injection of additive to oil MC-20 used to lubricate roll bearings at SEVERSTAL steel mills.
2. Pre-starting phase before beginning the production of grease with fluorocarbon additive.
3. The development of a new method of bearing lubrication with increased lubrication effect by applying a multiple layer lubricant.

Lubricants were tested on bearings used in front drive VAZ automobiles, in electrical spindles, and showed good anti-wear results, lower noise and vibration levels.

Installation of Large Size Bearings

Note:

- Position the rings in accordance with the letters, as shown in the drawing;
- Serial number of bearing in marked on each component;
- Installation of bearings having components with different serial numbers is not allowed.

Install bearing into a pillow in accordance with the scheme in Fig,1

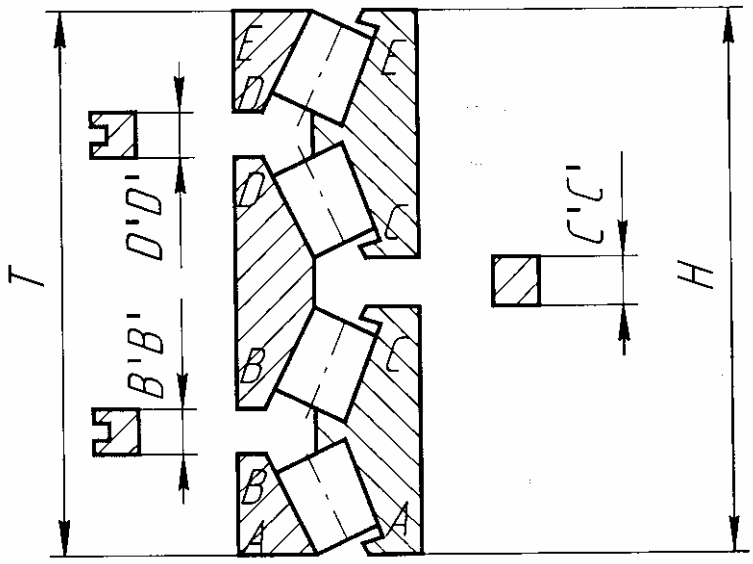


Fig.1. Installation of bearing components into a pillow.

Install bearing in the following sequence.

1. Install cup DE onto pillow base with side E down.
2. Install cup spacer D`D` on side D of ring DE.
3. Install cone CE with side E down.
4. Install cup BD so that its side D is opposite the lower ring DE.
5. Install cone spacer C`C` on side C of ring CE.
6. Install cone AC with side A up.
7. Install space B`B` on side B of cup BD.
8. Install cup AB with side A up.
9. Screw upper inner cover onto a pillow, tighten the bolts in a criss-cross manner.
10. Turn rings AC and CE about each other 3 times reversibly and check with clearance gauge the contact of spacer C`C` with cones AC and CE. A 0.05 mm thick gauge plate must not penetrate between contact surfaces at any point around the entire ring.
11. Install the pillow horizontally.

12. Installation of bearing into the pillow is complete. Disassembly is done in a reverse order.

Note: to install bearing into the pillow use the tools shown in annexes 1,2,3.

Installation of bearings with a tapered bore

Install bearing strictly in accordance with the scheme in Fig.2

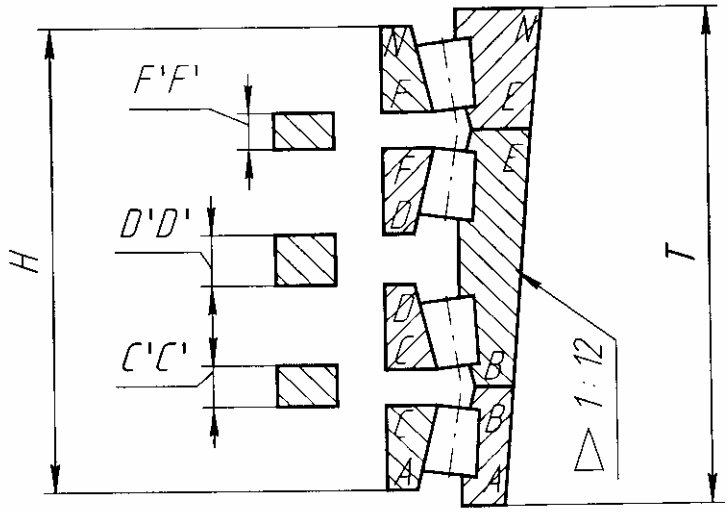


Fig.2 Installation of bearing components with a tapered bore into a pillow.

Note:

- Position the rings in accordance with the letters, as shown in the drawing;
- Serial number of bearing in marked on each component; installation of bearings having components with different serial numbers is not allowed;
- Align technological marks etched on bore diameters of cones.

Install the bearing into a prepared pillow with screwed on bottom cover in the following sequence.

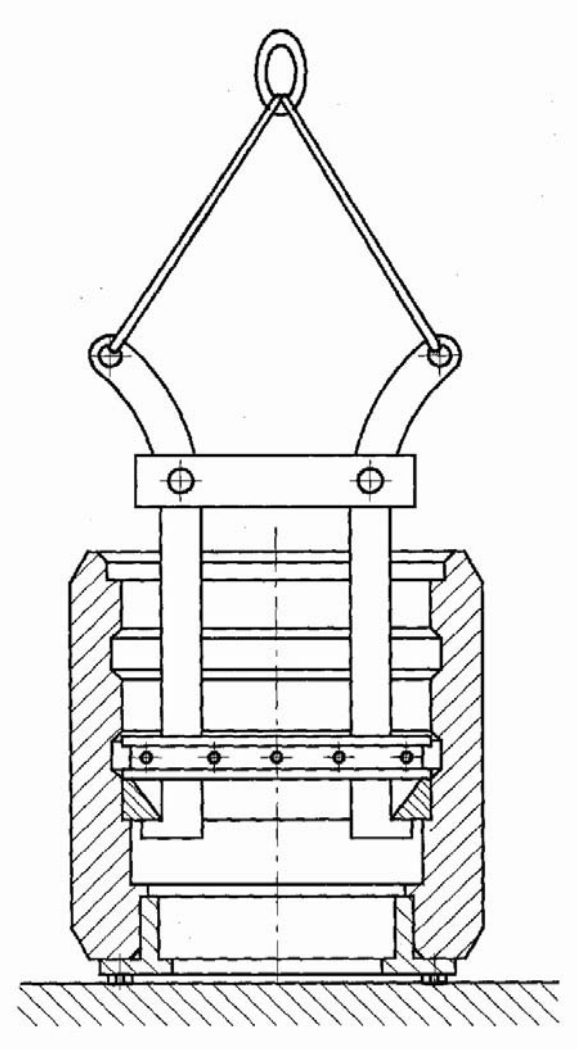
1. Install cone EN in the pillow with side N down.
2. Install cup FN with side N down.
3. Install spacer F`F` on side F of cup FN.
4. Install cup DF on spacer F`F` with side F down.
5. Install cone BE with side E to side E of cone EN.
6. Install cup spacer D`D` on side D of cup DF
7. Install cup CD on spacer D`D` with side D down.
8. Install spacer C`C` on side C of cup CD.
9. Install cup AC with side A up.
10. Install cone AB with side A up.
11. Screw upper inner cover onto a pillow, tighten the bolts in a criss-cross manner.
12. Turn cones AB and BE about each other three times reversible and check with clearance gauge the contact between cones BE, AB and EN. A 0.03 mm thick gauge plate must not penetrate between contact surfaces at any point around the entire ring BE.
13. Install the pillow horizontally.
14. Installation of bearing into the pillow is complete. Disassembly is done in a reverse order.

Note:

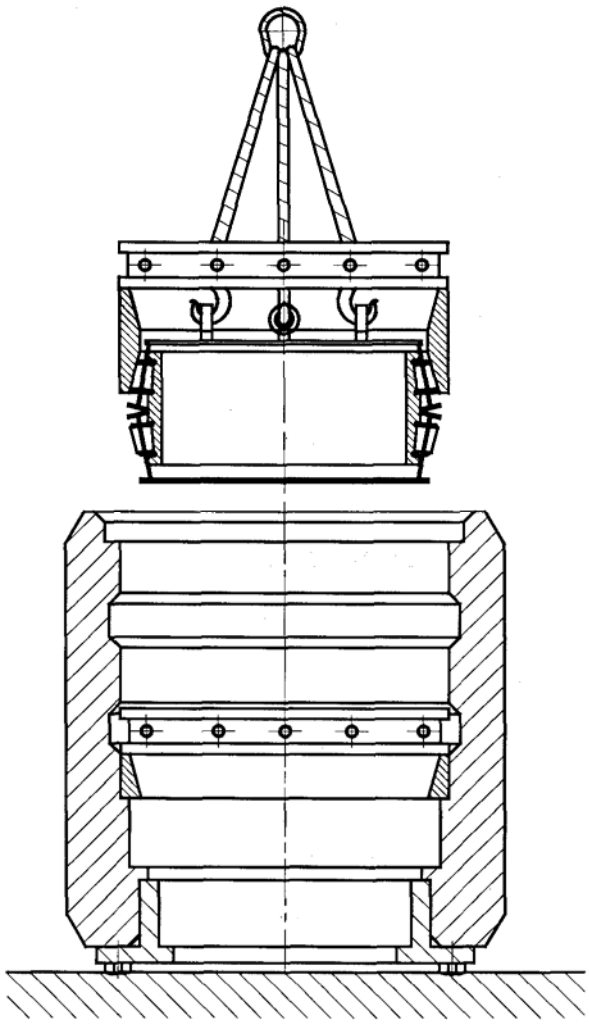
- All cups must be installed into a pillow in such a way that all sectors with the same number are in the loaded area;
- To increase the life of bearing working surfaces of all cups are divided into 4 sectors from 1 to 4 marked on cup surfaces at an angle 90º. Loaded sectors must be changed regularly throughout active life of bearing by putting next sector (2, 3, 4) into loaded area.

Installation of pillow with bearings onto a roll neck

1. Apply a thin layer of grease to roll neck.
2. Install pillow onto roll neck using a lifting device.
3. Fix the pillow on roll neck by tightening a nut as far as it will go and lock it to prevent unscrewing.
4. Bearing support is ready for operation.
5. If bearing is installed on a tapered roll neck, nut must be tightened so as to allow bearing to move 0.6 – 1.0 mm along the neck to ensure required interference, and there must be no clearance between the collar and cone face.



Tooling for installation of bearings with pressed or solid cage



Tooling for installation of bearings with pressed or solid cage

Reconditioning of Large Size Bearings

A group of companies “Samara Bearing Plants” persistently works on the improvement of quality and expands the range of services.

SPZ GROUP provides the following services in reconditioning and repair of large size bearings:

dismantling, defects detection, inspection and adjustment of bearings, rollers and cage replacement. Repair is carried out at the manufacturer’s production facilities in accordance with the standard process. Orders for reconditioning (repair) are received from the end users.

Practice shows a big demand for such service since many bearings can be reconditioned while the price of the repair is several times lower than the price of a new bearing.

Engineers from the service group are ready to inspect the used bearings and arrange repair.

Vibration Diagnostics Instruments

Vibration analyzer and data pick up SD-12M for vibration monitoring, diagnostics and balance.

SD-12M meets all the requirements of international and Russian standards GOST, ISO 10816. Instrument capabilities improve continuously.

SD-12M allows to make the following measurements:

Monitoring and diagnostics

- Temporal signal (oscillograph);
- Vibration levels in the bands stipulated by GOST;
- Natural spectra;
- Envelop spectra of signal components separated by band-pass filters;
- Rotational speed;
- Amplitude and phase of signal at rotational speed and its harmonics;

Rotors balance:

- 1, 2, 3 – plane balance;
- up to 8 control points;
- balance by influence coefficients;
- subprograms for evaluation of test masses, addition and separation of balance masses;
- balance records;

Vibration adjustment:

- amplitude-frequency characteristics at start-up and run out of the machine (up to 16 measuring channels);
- analysis of shock resonances, determination of frequencies and attenuation decrements of natural oscillation.

Design and Manufacture of Foreign Brand Equivalents of Large Size Bearings

SPZ GROUP factories can make equivalents of foreign manufacturers' bearings to customer's order. Today we can produce equivalents of 100 bearings types of foreign brands.

Equivalents made by SPZ GROUP for specific operating conditions feature high quality which is not inferior than that of original, coupled with the advantage of lower price and available technical service.

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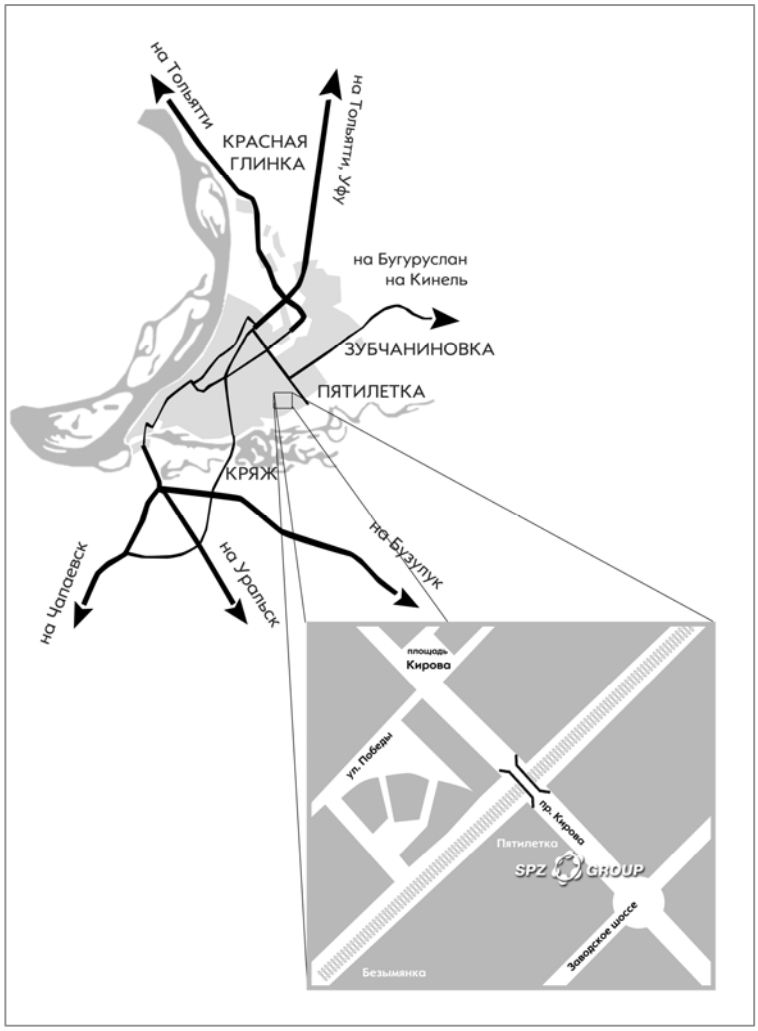

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Director: V.E.Puchinsky

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Samara, Samara Reg.
ZAO VOLGAPROMTERMINAL
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Tel/Fax: (846) 226-99-28
Director: S.V.Ermakov

Servicing

To ensure guarantee and post-guarantee service to bearings a service group was formed at SPZ GROUP, whose responsibilities include:

- monitoring of technical condition of bearings and bearing units;
- analysis of failure or damage causes;
- issue of recommendations for bearing modernization;
- installation of bearings and performance control;
- training and organization of technical workshops.

SPZ GROUP provides service to its customers and offers prompt professional solutions concerning bearing performance.

Head of Service Group
Alexander Ivanovich Danilchenko
Chief Designer
Tel/fax: (846) 995-88-47, 338-78-49
On-line service:
http://www.spzgroup.ru/service
service@spzgroup.ru

Certificates, diplomas, awards

TÜV CERT

CERTIFICATE

The TÜV CERT Certification Body of TÜV Thüringen e.V.

certifies in accordance with TÜV CERT procedure that

Joint Stock Company
Samara Bearing Plant
443008 Samara
Russia

has established and applies a quality management system for

Production of roller and ball bearings

An audit was performed, Report No. **3330 22PK D0**

Proof has been furnished that the requirements according to

DIN EN ISO 9001:2000

are fulfilled. The certificate is valid until **2006-12-04**
First certification 1996

Certificate Registration No. **15 100 9526**

Deutscher Akkreditierungs Rat
DAR
TGA-ZM-19-96-00

TÜV THÜRINGEN

Jena, 2003-12-05

TÜV CERT Certification Body
of TÜV Thüringen e. V.

2275


IV УРАЛЬСКАЯ ПРОМЫШЛЕННО-ЭКОНОМИЧЕСКАЯ НЕДЕЛЯ
Правительство Челябинской области
Администрация города Челябинска
Выставочный центр ЮжуралЭкспо
2004
VIII международная
специализированная выставка
МАШИНОСТРОЕНИЕ.
МЕТАЛЛООБРАБОТКА
6-9 апреля 2004 г.
Челябинск
ДИПЛОМ
За лучшую экспозицию
НАГРАЖДАЕТСЯ
ОАО «Самарский подшипниковый завод»
Диплов В.Н.
Первый заместитель Губернатора
Антоник В.С.
заместитель Главы города
Мещеряков В.В.
генеральный директор


V УРАЛЬСКАЯ ПРОМЫШЛЕННО-ЭКОНОМИЧЕСКАЯ НЕДЕЛЯ
Правительство Челябинской области
Выставочный центр ЮжуралЭкспо
VIII международная
специализированная выставка
МЕТАЛЛУРГИЯ
Челябинск
26-29 апреля 2005 г.
ДИПЛОМ
За вклад в развитие металлургического
и машиностроительного комплекса
НАГРАЖДАЕТСЯ
ОАО «Самарский
подшипниковый завод»
Диплов В.Н.
Первый заместитель Губернатора
Мещеряков В.В.
генеральный директор


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№ 0609
МОСКОВСКИЙ ФОНД
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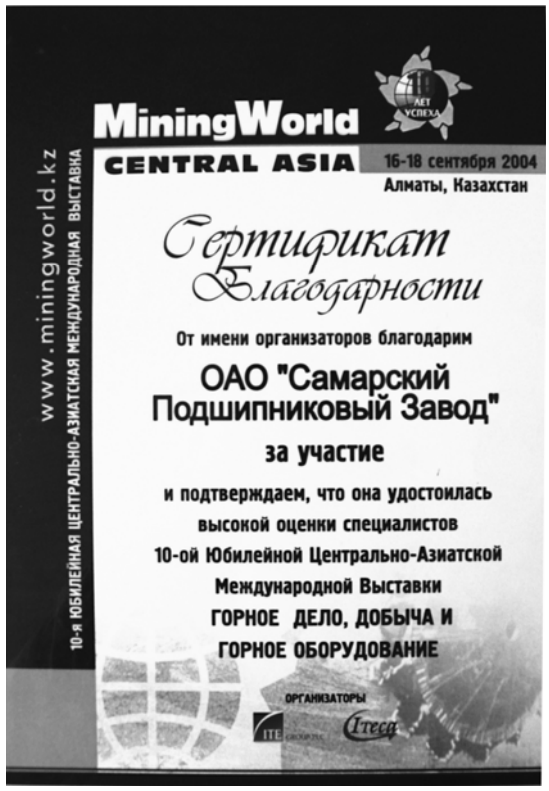
ДИПЛОМ
РЕШЕНИЕМ ОБЩЕСТВЕННО-ЭКСПЕРТНОГО СОВЕТА СМОТРОВ
"ЛУЧШИЕ В РОССИИ", "ЛУЧШИЕ В МОСКВЕ", "ЛУЧШИЕ В ПОДМОСКОВЬЕ"
НАГРАЖДАЕТСЯ
ОАО «САМАРСКИЙ ПОДШИПНИКОВЫЙ ЗАВОД»
за активное участие во 2-ой международной специализированной выставке «ПОДШИПНИК-2003»
Председатель
О. М. Кулагин
WWW.MOSCOW.RUSSIA.RU


MiningWorld
CENTRAL ASIA
16-18 сентября 2004
Алматы, Казахстан
www.miningworld.kz
10-я ЮБИЛЕЙНАЯ ЦЕНТРАЛЬНО-АЗИАТСКАЯ МЕЖДУНАРОДНАЯ ВЫСТАВКА
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ГОРНОЕ ОБОРУДОВАНИЕ
ОРГАНИЗАТОРЫ


ДИПЛОМ
Награждается за активное участие в
1-ом Международном Евро-Азиатском
Машиностроительном Форуме
Самарский подшипниковый завод
Губернатор
Свердловской области
Э.Э. Россель
3-6 июня 2003
Екатеринбург


МЕЖДУНАРОДНАЯ
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Технологической Ярмарке
Заместитель министра
промышленности и энергетики
Российской Федерации
И.С. Матеров
Москва 2005


МЕЖДУНАРОДНАЯ
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ОАО «САМАРСКИЙ
ПОДШИПНИКОВЫЙ ЗАВОД»
за участие
в III Международной специализированной выставке
«ПОДШИПНИК 2004»
Заместитель Министра промышленности
и энергетики Российской Федерации
И.С.Матеров
Москва 2004


VII ЮЖНО-УРАЛЬСКИЙ ЭКОНОМИЧЕСКИЙ ФОРУМ

МАШИНОСТРОЕНИЕ. МЕТАЛЛООБРАБОТКА. СВАРКА. ИНСТРУМЕНТ

МЕТАЛЛУРГИЯ

ПРОМЫШЛЕННАЯ ЭКОЛОГИЯ

НАЦИОНАЛЬНАЯ ВЫСТАВКА-ЧЕШСКАЯ РЕСПУБЛИКА - ВАШ ПАРТНЕР

ЮЖУРАЛЭКСПО

VI УРАЛЬСКАЯ ПРОМЫШЛЕННО-ЭКОНОМИЧЕСКАЯ НЕДЕЛЯ

МЕТАЛЛУРГИЯ

ДИПЛОМ

с вручением медали

За широкий ассортимент, высокое качество и активное продвижение выпускаемой продукции

НАГРАЖДАЕТСЯ

ОАО «Самарский подшипниковый завод»
г. Самара

Министр экономического развития Челябинской области — Ю. В. Клепов

Министр промышленности и природных ресурсов Челябинской области — Е. Н. Тефтелев

Генеральный директор ЗАО "ЮжУралЭкспо" — Г. С. Зимина

11-14 апреля 2006 года
г. Челябинск


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ОАО "Самарский подшипниковый завод"

участник
VII Международного
авиационно-космического
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МАКС - 2005

Председатель Оргкомитета МАКС- 2005 В. Христенко

Москва, Жуковский, ФГУП «ЛИИ им. М.М. Громова».
16 - 21 августа 2005 г.


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Международная
Промышленная Неделя
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„Самарский подшипниковый завод"
за активное участие
Президент Международной выставочной Компании
А.В. Лапшин
Президент Ассоциации «Станкоинструмент»
Н.А. Паничев
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25th
INTERNATIONAL
TROPHY FOR QUALITY
Paris 1997 (France)
SAMARA BEARING PLANT


16TH INTERNATIONAL
AWARD
FOR TECHNOLOGY
AND QUALITY
ROME 1995 ITALY
SAMARA BEARING PLANT
JSC


18TH INTERNATIONAL
AWARD FOR TECHNOLOGY
AND QUALITY
FRANKFURT 1997 GERMANY
SAMARA BEARING PLANT
JOINT STOCK COMPANY


East Development
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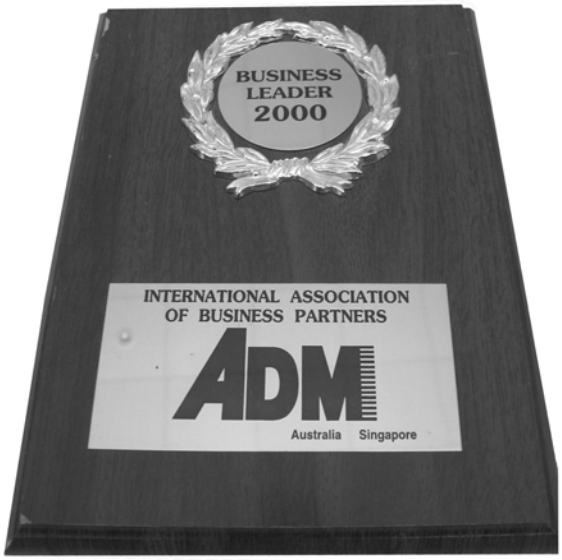
BUSINESS
LEADER
2000
INTERNATIONAL ASSOCIATION
OF BUSINESS PARTNERS
ADM
Australia Singapore


BIRMINGHAM TORCH AWARD
1995
For Success In Economic Survival And
Development In The Face Of Adverse Conditions
Presented To
AO SAMARSKIY
PODSHIPNIKOVYY ZAVOD
American People Ambassador Program
International Finance And Economic Partnership Institute
International Academy For Leadership In Business And Administration
Birmingham, Alabama


2004


INTERNATIONAL AWARD
FOR COMMERCIAL PRESTIGE
AND THE BEST TRADE NAME
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JOINT STOCK COMPANY


ENTERPRISE
2000


XX
GOLDEN AWARD
FOR THE BEST
TRADE NAME
SAMARA BEARING PLANT,
JOINT STOCK COMPANY


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XXIII INTERNATIONAL
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MADRID 1995 SPAIN
SAMARA BEARING PLANT
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