

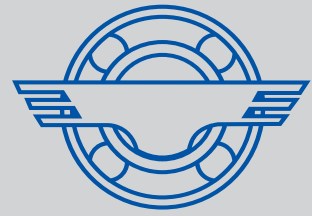


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PROVEN SOLUTIONS FOR YOU

BEARING

AUTO

ISO/TS 16949 ISO 9001



HARP

Proven
solutions for you

PRODUCT RANGE



UPEC is one of the leading CIS manufacturers of bearings, electric motors, pumps, CNC grinding machines, transmissions and chassis, air-cycle climate control systems, trailed agricultural machinery as well as other machines, equipment, units and components for automotive, railway, agricultural, power and electric machinery, defense, metallurgical and other industries.

UPEC was established in 1995 and today it unites a number of leading manufacturing companies and engineering centres with more than half a century of history.



Kharkov Bearing Plant HARP (Ukraine) holds leading positions in the CIS in the production of bearings for many industries: railway, agricultural machinery, automotive industry and others.

HARP manufactures over 500 types of bearings with inner diameter from 16 to 260 under the HARP, HARP-AGRO and HARP-AUTO trademarks, hotforged and cold-rolled semi-finished products and components for automotive, railway and industrial bearings.

A wealth of design and production experience (over 70 years) enables the company to continuously improve the developed products; thus, taking into consideration the machinery operating conditions and the machinery design modification of the leading in the CIS engineering and manufacturing companies, which production lines are currently supplied with HARP bearings.

We consider both equipment operation conditions and design modifications provided by OEMs which currently use HARP bearings in assembly line production. Main fields of application: industrial (general industry), agricultural, automotive and railway.

“Quality management system of the plant is certificated according to the general standard ISO 9001, the automotive industry standard ISO/TS 16949 and ecological standard ISO 14001.”



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SINGLE ROW DEEP GROOVE BALL BEARINGS

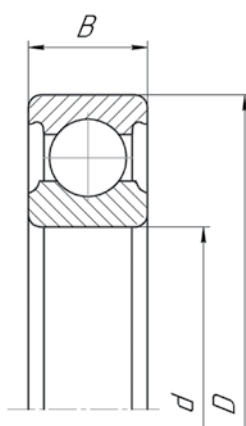


Fig. 1

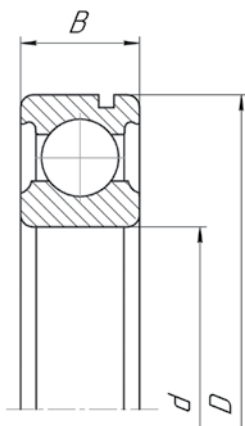


Fig. 2

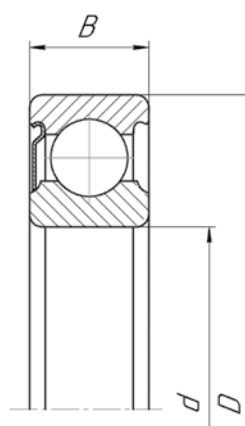


Fig. 3

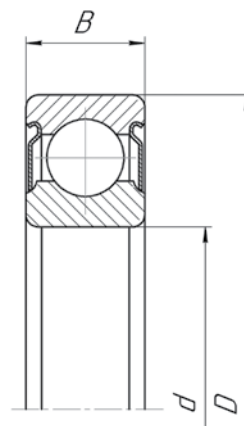


Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6014	6014	114A	70	110	20	0,58	39,6	31,0	6000	7000	1
	6014P6	6-114A	70	110	20	0,58	39,6	31,0	6000	7000	1
6015	6015	115A	75	115	20	0,60	41,7	33,5	5600	6700	1
	6015C3	70-115A	75	115	20	0,60	41,7	33,5	5600	6700	1
	6015N	50115A	75	115	20	0,60	41,7	33,5	5600	6700	2
6017	6017	117A	85	130	22	0,86	50,8	40,0	5000	6000	1
	6017P6	6-117A	85	130	22	0,86	50,8	40,0	5000	6000	1
6018	6018	118A	90	140	24	1,2	60,1	48,0	4800	5600	1
6020	6020	120A	100	150	24	1,2	63,5	54,0	4300	5000	1
	6020-Z	60120A	100	150	24	1,2	63,5	54,0	4300	-	3
	6020-2Z	80120AC17	100	150	24	1,2	63,5	54,0	4300	-	3
	6020-ZP6	6-60120A	100	150	24	1,2	63,5	54,0	4300	-	3
6022	6022	122A	110	170	28	2,0	85,9	73,5	3800	4500	1
	6022P6	6-122A	110	170	28	2,0	85,9	73,5	3800	4500	1
6024	6024	124A	120	180	28	2,1	88,9	80,0	3400	4000	1
	6024P6	6-124A	120	180	28	2,1	88,9	80,0	3400	4000	1
6026	6026	126A	130	200	33	3,1	114,8	94,0	3200	3800	1
	6026P6	6-126A	130	200	33	3,1	114,8	94,0	3200	3800	1
6030	6030	130A	150	225	35	4,2	137,5	125,0	2600	3200	1
	6030P6	6-130A	150	225	35	4,2	137,5	125,0	2600	3200	1
6204	6204	204A	20	47	14	0,10	13,33	6,5	15000	18000	1
	6204P6	6-204A	20	47	14	0,10	13,33	6,5	15000	18000	1
	6204C3	70-204A	20	47	14	0,10	13,33	6,5	15000	18000	1
	6204N	50204	20	47	14	0,10	13,33	6,5	15000	18000	2
	6204-Z	60204A	20	47	14	0,10	13,33	6,5	15000	-	3
	6204-2Z	80204AC17	20	47	14	0,10	13,33	6,5	15000	-	4

SINGLE ROW DEEP GROOVE BALL BEARINGS

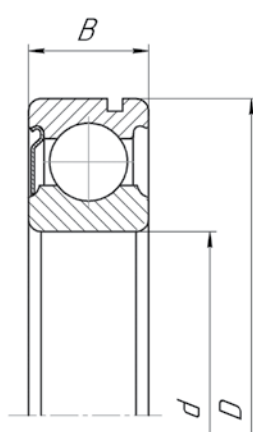


Fig. 5

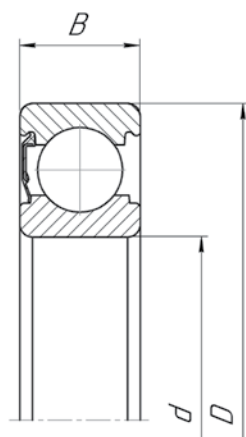


Fig. 6

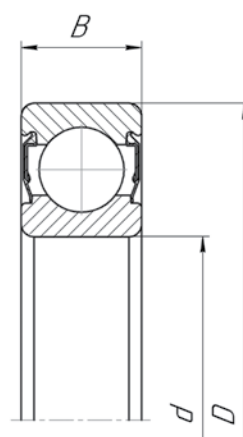


Fig. 7

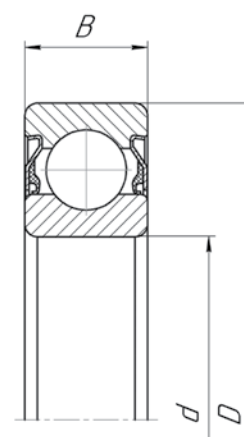


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6204	6204-2ZC3	70-80204AC17	20	47	14	0,10	13,33	6,5	15000	-	4
	6204-RS	160204A	20	47	14	0,10	13,33	6,5	10000	-	6
	6204-RSP6	6-160204A	20	47	14	0,10	13,33	6,5	10000	-	6
	6204-2RS	180204AC17	20	47	14	0,10	13,33	6,5	10000	-	7
	6204-2RSC2	60-180204AC17	20	47	14	0,10	13,33	6,5	10000	-	7
	6204-2RSC3	70-180204AC17	20	47	14	0,10	13,33	6,5	10000	-	7
	6204-2RSP63QE6	76-180204AC17Ш2	20	47	14	0,10	13,33	6,5	10000	-	7
6204-2RS X-Shield	180204AK10C17	20	47	14	0,10	13,33	6,5	10000	-	8	
6205	6205	205A	25	52	15	0,12	14,7	7,0	12000	15000	1
	6205P6	6-205A	25	52	15	0,12	14,7	7,0	12000	15000	1
	6205P6	6-205AШ1	25	52	15	0,12	14,7	7,0	12000	15000	1
	6205P6	6-205AKYШ1	25	52	15	0,12	14,7	7,0	12000	15000	1
	6205C3	70-205A	25	52	15	0,12	14,7	7,0	12000	15000	1
	6205N	50205A	25	52	15	0,12	14,7	7,0	12000	15000	2
	6205NP6	6-50205A	25	52	15	0,12	14,7	7,0	12000	15000	2
	6205NP6	6-50205AШ	25	52	15	0,12	14,7	7,0	12000	15000	2
	6205-Z	60205A	25	52	15	0,12	14,7	7,0	12000	-	3
	6205-ZP6	6-60205A	25	52	15	0,12	14,7	7,0	12000	-	3
	6205-2Z	80205AC17	25	52	15	0,12	14,7	7,0	12000	-	4
	6205-2ZC3	70-80205AC17	25	52	15	0,12	14,7	7,0	12000	-	4
	6205-2ZTVP6	6-80205AEC17	25	52	15	0,12	14,7	7,0	12000	-	4
	6205-2ZP6	6-80205AC17Ш1	25	52	15	0,12	14,7	7,0	12000	-	4
	6205-2ZTV	80205AEYC17	25	52	15	0,12	14,7	7,0	12000	-	4
	6205-RS	160205A	25	52	15	0,12	14,7	7,0	12000	-	6
	6205-2RS	180205AC17	25	52	15	0,12	14,7	7,0	8500	-	7
6205-2RS X-Shield	180205AK10C17	25	52	15	0,12	14,7	7,0	8500	-	8	



SINGLE ROW DEEP GROOVE BALL BEARINGS

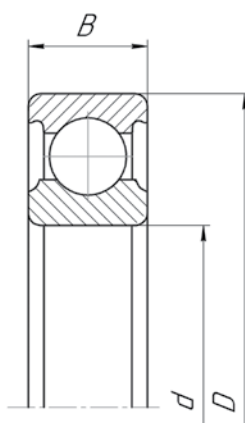


Fig. 1

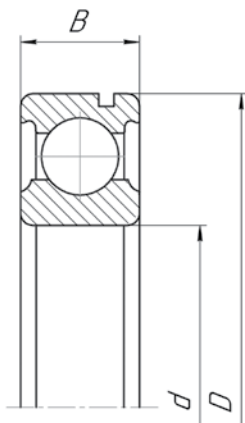


Fig. 2

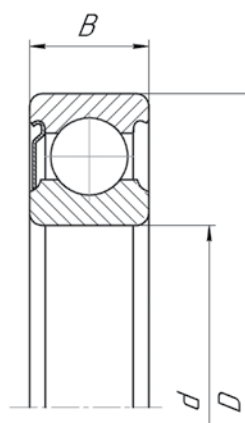


Fig. 3

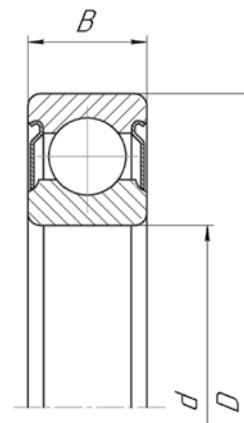


Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6205	6205-2RSC3	70-180205AC17	25	52	15	0,12	14,7	7,0	8500	-	7
	6205-2RSP63	76-180205AC17	25	52	15	0,12	14,7	7,0	8500	-	7
	6205-2RSP63QE6	76-180205AK1C9Ш2Y	25	52	15	0,12	14,7	7,0	8500	-	7
6206	6206	206A	30	62	16	0,20	19,5	11,2	10000	13000	1
	6206P6	6-206A	30	62	16	0,20	19,5	11,2	10000	13000	1
	6206N	50206A	30	62	16	0,20	19,5	11,2	10000	13000	2
	6206-Z	60206A	30	62	16	0,20	19,5	11,2	10000	-	3
	6206-2Z	80206AC17	30	62	16	0,20	19,5	11,2	10000	-	4
	6206-RS	160206A	30	62	16	0,20	19,5	11,2	7500	-	6
	6206-2RS	180206AC9	30	62	16	0,20	19,5	11,2	7500	-	7
	6206-2RS	180206AC17	30	62	16	0,20	19,5	11,2	7500	-	7
	6206-2RS X-Shield	180206AK10C17	30	62	16	0,20	19,5	11,2	7500	-	8
	6206-2RSP6	6-180206AC9	30	62	16	0,20	19,5	11,2	7500	-	7
	6206-2RSC3	70-180206AC17	30	62	16	0,20	19,5	11,2	7500	-	7
	6206-2RSP63QE6	76-180206AK1C9Ш2Y	30	62	16	0,20	19,5	11,2	7500	-	7
6207	6207	207A	35	72	17	0,29	26,8	15,3	9000	11000	1
	6207	207AШ	35	72	17	0,29	26,8	15,3	9000	11000	1
	6207P6	6-207A	35	72	17	0,29	26,8	15,3	9000	11000	1
	6207P6	6-207AШ1	35	72	17	0,29	26,8	15,3	9000	11000	1
	6207C3	70-207A	35	72	17	0,29	26,8	15,3	9000	11000	1
	6207N	50207A	35	72	17	0,29	26,8	15,3	9000	11000	2
	6207N	50207AШ	35	72	17	0,29	26,8	15,3	9000	11000	2
	6207-Z	60207A	35	72	17	0,29	26,8	15,3	9000	-	3
	6207-Z	60207AШ	35	72	17	0,29	26,8	15,3	9000	-	3
	6207-2Z	80207AC17	35	72	17	0,29	26,8	15,3	9000	-	4
	6207-ZN	150207A	35	72	17	0,29	26,8	15,3	9000	-	5



SINGLE ROW DEEP GROOVE BALL BEARINGS

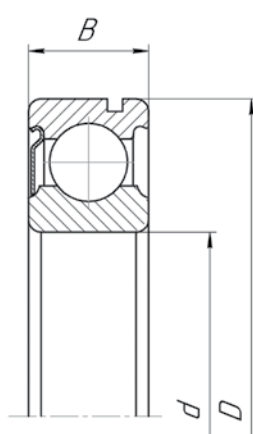


Fig. 5

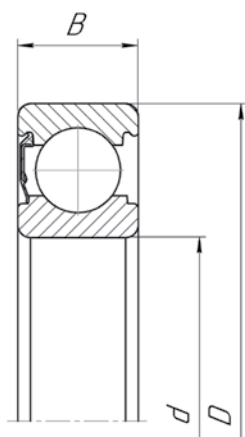


Fig. 6

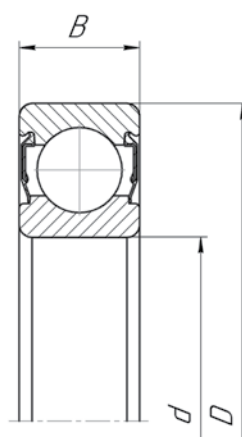


Fig. 7

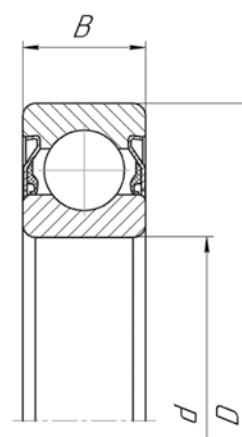


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6207	6207-RS	160207A	35	72	17	0,29	26,8	15,3	6300	-	6
	6207-2RS	180207AC17	35	72	17	0,29	26,8	15,3	6300	-	7
	6207-2RS	180207AC17Ш	35	72	17	0,29	26,8	15,3	6300	-	7
	6207-2RS X-Shield	180207AK10C17	35	72	17	0,29	26,8	15,3	6300	-	8
	6207-2RSP6	6-180207AC17	35	72	17	0,29	26,8	15,3	6300	-	7
6208	6208	208A	40	80	18	0,36	33,6	19,0	8500	10000	1
	6208P6	6-208A	40	80	18	0,36	33,6	19,0	8500	10000	1
	6208C3	70-208A	40	80	18	0,36	33,6	19,0	8500	10000	1
	6208TV	208AE	40	80	18	0,36	33,6	19,0	8500	10000	1
	6208N	50208A	40	80	18	0,36	33,6	19,0	8500	10000	2
	6208NTV	50208AE	40	80	18	0,36	33,6	19,0	8500	10000	2
	6208-Z	60208A	40	80	18	0,36	33,6	19,0	8500	-	3
	6208-2Z	80208AC17	40	80	18	0,36	33,6	19,0	8500	-	4
	6208-ZN	150208A	40	80	18	0,36	33,6	19,0	8500	-	5
	6208-RS	160208	40	80	18	0,36	33,6	19,0	5600	-	6
	6208-2RS	180208C17	40	80	18	0,36	33,6	19,0	5600	-	7
	6208-2RS X-Shield	180208AK10C17	40	80	18	0,36	33,6	19,0	5600	-	8
	6208-2RSP6	6-180208C17	40	80	18	0,36	33,6	19,0	5600	-	7
6208-2RSC3	70-180208C17	40	80	18	0,36	33,6	19,0	5600	-	7	
6209	6209	209A	45	85	19	0,42	34,9	21,6	7500	9000	1
	6209P6	6-209AШ1	45	85	19	0,42	34,9	21,6	7500	9000	1
	6209P6	6-209AYШ1	45	85	19	0,42	34,9	21,6	7500	9000	1
	6209N	50209	45	85	19	0,42	34,9	21,6	7500	9000	2
	6209NP6	6-50209AYШ1	45	85	19	0,42	34,9	21,6	7500	9000	2
	6209-Z	60209A	45	85	19	0,42	34,9	21,6	7500	-	3
	6209-2Z	80209AC17	45	85	19	0,42	34,9	21,6	7500	-	4

SINGLE ROW DEEP GROOVE BALL BEARINGS

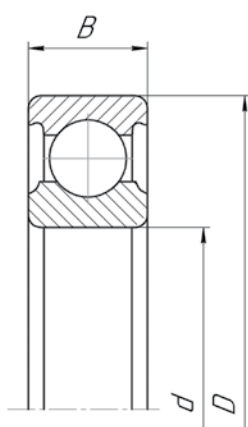


Fig. 1

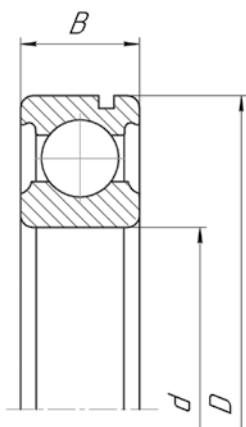


Fig. 2

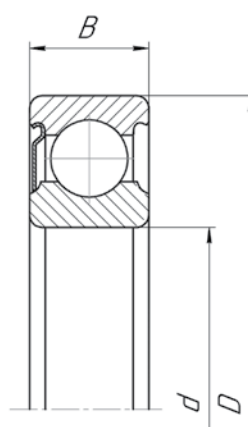


Fig. 3

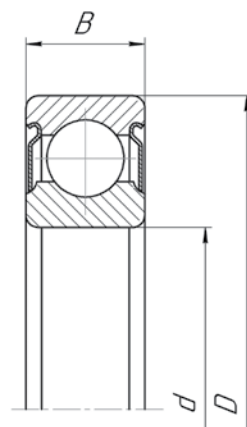


Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6210	6210	210	50	90	20	0,45	35,1	23,2	7000	8500	1
	6210	210AYШ1	50	90	20	0,45	35,1	23,2	7000	8500	1
	6210N	50210	50	90	20	0,45	35,1	23,2	7000	8500	2
	6210-Z	60210	50	90	20	0,45	35,1	23,2	7000	-	3
	6210-Z	60210AYШ1	50	90	20	0,45	35,1	23,2	7000	-	3
	6210-2Z	80210C17	50	90	20	0,45	35,1	23,2	7000	-	4
	6210-ZN	150210	50	90	20	0,45	35,1	23,2	7000	-	5
6210-2RS	180210C17	50	90	20	0,45	35,1	23,2	5000	-	6	
6211	6211	211A	55	100	21	0,63	45,8	29,0	6300	7500	1
	6211	211AYШ1	55	100	21	0,63	45,8	29,0	6300	7500	1
	6211P62	66-211AYШ1	55	100	21	0,63	45,8	29,0	6300	7500	1
	6211N	50211A	55	100	21	0,63	45,8	29,0	6300	7500	2
	6211-Z	60211A	55	100	21	0,63	45,8	29,0	6300	-	3
	6211-2Z	80211AC17	55	100	21	0,63	45,8	29,0	6300	-	4
	6211-2RS	180211AC17	55	100	21	0,63	45,8	29,0	4400	-	7
	-	1180211AC17	55	100	23	0,67	45,8	29,0	4400	-	7
-	1180211AK10C17	55	100	23	0,67	45,8	29,0	4400	-	8	
6212	6212	212A	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212	212AYШ1	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212P6	6-212AYШ1	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212P62	66-212AYШ1	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212C3	70-212A	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212C4	80-212A	60	110	22	0,74	54,6	31,0	6000	7000	1
	6212N	50212A	60	110	22	0,74	54,6	31,0	6000	7000	2
	6212-Z	60212	60	110	22	0,74	54,6	31,0	6000	-	3
	6212-2Z	80212C17	60	110	22	0,74	54,6	31,0	6000	-	4



SINGLE ROW DEEP GROOVE BALL BEARINGS

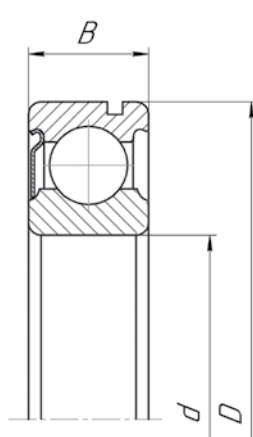


Fig. 5

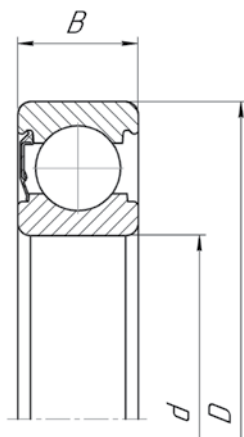


Fig. 6

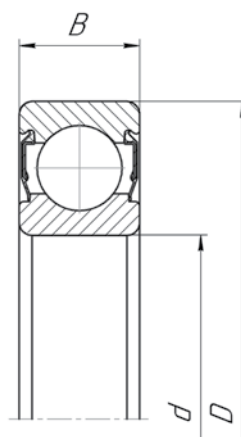


Fig. 7

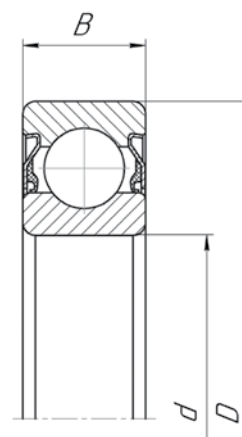


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6212	6212-ZN	150212	60	110	22	0,74	54,6	31,0	6000	-	5
	6212-RSP6	6-160212A	60	110	22	0,74	54,6	31,0	4000	-	6
	6212-2RS	180212AC17	60	110	22	0,74	54,6	31,0	4000	-	7
6213	6213	213A	65	120	23	1,0	58,8	40,5	5300	6300	1
	6213P6	6-213AW1	65	120	23	1,0	58,8	40,5	5300	6300	1
	6213C3	70-213A	65	120	23	1,0	58,8	40,5	5300	6300	1
	6213N	50213A	65	120	23	1,0	58,8	40,5	5300	6300	2
	6213-Z	60213	65	120	23	1,0	58,8	40,5	5300	-	3
	6213-2Z	80213C17	65	120	23	1,0	58,8	40,5	5300	-	4
6214	6214	214	70	125	24	1,1	61,8	45,0	5000	6000	1
	6214P6	6-214AW1	70	125	24	1,1	61,8	45,0	5000	6000	1
	6214-Z	60214A	70	125	25	1,1	61,8	45,0	5000	-	3
	6214-2Z	80214AC17	70	125	24	1,1	61,8	45,0	5000	-	4
6215	6215	215	75	130	25	1,2	66,3	49,0	4800	5600	1
	6215P6	6-215	75	130	25	1,2	66,3	49,0	4800	5600	1
	6215P6	6-215W1	75	130	26	1,2	66,3	49,0	4800	5600	1
	6215N	50215A	75	130	25	1,2	66,3	49,0	4800	5600	2
	6215-2Z	80215AC17	75	130	25	1,2	66,3	49,0	4800	-	4
	6215-2ZC4	80-80215AC3	75	130	25	1,2	66,3	49,0	4800	-	4
6216	6216	216	80	140	26	1,4	70,2	55,0	4500	6300	1
	6216P6	6-216	80	140	26	1,4	70,2	55,0	4500	6300	1
6217	6217	217A	85	150	28	1,8	87,4	64,0	4300	5000	1
	6217	217AW	85	150	28	1,8	87,4	64,0	4300	5000	1
	6217P6	6-217	85	150	28	1,8	87,4	64,0	4300	5000	1
	6217P6	6-217AW1	85	150	28	1,8	87,4	64,0	4300	5000	1
	6217N	50217A	85	150	28	1,8	87,4	64,0	4300	5000	1

SINGLE ROW DEEP GROOVE BALL BEARINGS

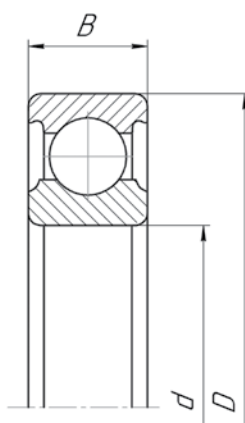


Fig. 1

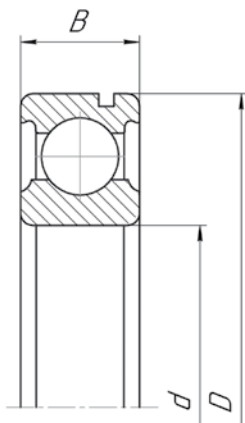


Fig. 2

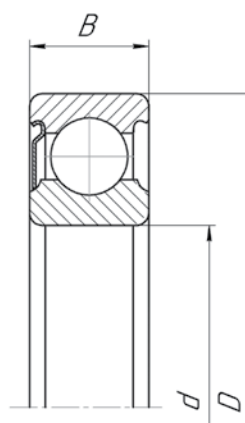


Fig. 3

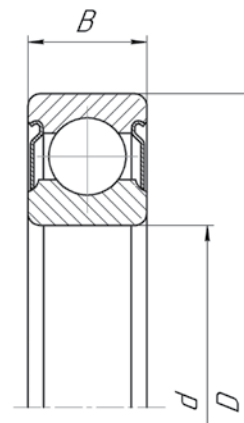


Fig. 4

Bearing designation			Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №
									Type of grease		
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6217	6217-Z	60217A	85	150	28	1,8	87,4	64,0	4300	-	2
	6217-2Z	80217AC17	85	150	28	1,8	87,4	64,0	4300	-	3
	6217-ZN	150217A	85	150	28	1,8	87,4	64,0	4300	-	5
	6217-2RS	180217AC17	85	150	28	1,8	87,4	64,0	2800	-	7
	6217-2RSP6	6-180217AC17	85	150	28	1,8	87,4	64,0	2800	-	7
6218	6218	218A	90	160	30	2,2	101	71,5	3800	4500	1
	6218P6	6-218A	90	160	30	2,2	101	71,5	3800	4500	1
	6218C3	70-218A	90	160	30	2,2	101	71,5	3800	4500	1
	6218C4	80-218A	90	160	30	2,2	101	71,5	3800	4500	1
	6218N	50218A	90	160	30	2,2	101	71,5	3800	4500	2
	6218-2Z	80218AC17	90	160	30	2,2	101	71,5	3800	-	4
6220	6220	220A	100	180	34	3,2	128	93,0	3400	4000	1
	6220P6	6-220A	100	180	34	3,2	128	93,0	3400	4000	1
	6220-Z	60220	100	180	34	3,2	128	93,0	3400	-	3
	6220-2Z	80220C17	100	180	34	3,2	128	93,0	3400	-	4
6222	6222	222A	110	200	38	4,4	153	118	3000	3600	1
6224	6224	224A	120	215	40	5,4	156	131	2800	3400	1
	6224P6	6-224A	120	215	40	5,4	156	131	2800	3400	1
	6224P6	6-224AШ1	120	215	40	5,4	156	131	2800	3400	1
6226	6226	226A	130	230	40	6,1	168	146	2600	3200	1
	6226P6	6-226A	130	230	40	6,1	168	146	2600	3200	1
6228	6228	228A	140	250	42	8,1	173	150	2400	3000	1
	6228P6	6-228A	140	250	42	8,1	173	150	2400	3000	1
6304	6304	304	20	52	15	0,14	16,7	7,8	13000	16000	1
	6304P6	6-304	20	52	15	0,14	16,7	7,8	13000	16000	1
	6304C3	70-304	20	52	15	0,14	16,7	7,8	13000	16000	1

SINGLE ROW DEEP GROOVE BALL BEARINGS

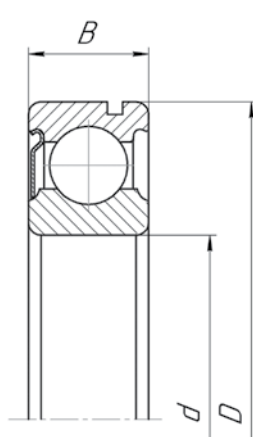


Fig. 5

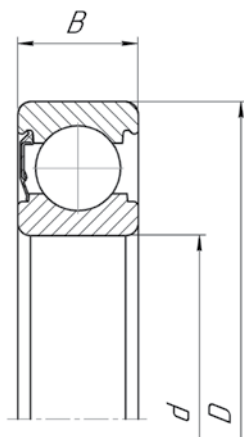


Fig. 6

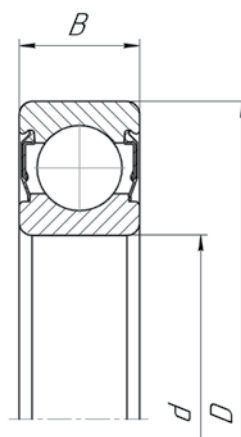


Fig. 7

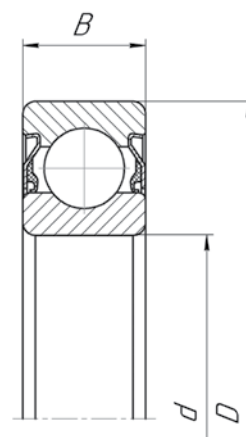


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6304	6304-Z	60304A	20	52	15	0,14	16,7	7,8	13000	-	3
	6304-2Z	80304AC17	20	52	15	0,14	16,7	7,8	13000	-	4
	6304-2ZP6	6-80304AC17	20	52	15	0,14	16,7	7,8	13000	-	4
	6304-2RS	180304AC9	20	52	15	0,14	16,7	7,8	9300	-	7
	6304-2RS	180304AC17	20	52	15	0,14	16,7	7,8	9300	-	7
	6304-2RSP6	6-180304AC17	20	52	15	0,14	16,7	7,8	9300	-	7
	6304-2RSC3	70-180304AC17	20	52	15	0,14	16,7	7,8	9300	-	7
	-	1160304K	20	52	18	0,16	16,7	7,8	9300	-	6
	-	1180304AC9	20	52	18	0,16	16,7	7,8	9300	-	7
-	6-1180304AC9	20	52	18	0,16	16,7	7,8	9300	-	7	
6305	6305	305A	25	62	17	0,22	23,6	11,6	11000	14000	1
	6305	305AШ	25	62	17	0,22	23,6	11,6	11000	14000	1
	6305P6	6-305A	25	62	17	0,22	23,6	11,6	11000	14000	1
	6305P6	6-305AШ1	25	62	17	0,22	23,6	11,6	11000	14000	1
	6305TVP6	6-305A1EШ1	25	62	17	0,22	27,5	12,9	11000	14000	1
	6305TVP6	6-305A1EKШ1	25	62	17	0,22	27,5	12,9	11000	14000	1
	6305C3	70-305A	25	62	17	0,22	23,6	11,6	11000	14000	1
	6305N	50305A	25	62	17	0,22	23,6	11,6	11000	14000	2
	6305N	50305AШ	25	62	17	0,22	23,6	11,6	11000	14000	2
	6305NP6	6-50305AШ1	25	62	17	0,22	23,6	11,6	11000	14000	2
	6305-Z	60305A	25	62	17	0,22	23,6	11,6	11000	-	3
	6305-Z	60305AШ	25	62	17	0,22	23,6	11,6	11000	-	3
	6305-ZC3	70-60305AШ	25	62	17	0,22	23,6	11,6	11000	-	3
	6305-2Z	80305AC17	25	62	17	0,22	23,6	11,6	11000	-	4
	6305-2RS	180305AC17	25	62	17	0,22	23,6	11,6	8500	-	7
6305-2RS	180305AC17Ш	25	62	17	0,22	23,6	11,6	8500	-	7	

SINGLE ROW DEEP GROOVE BALL BEARINGS

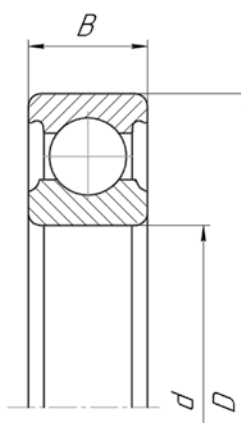


Fig. 1

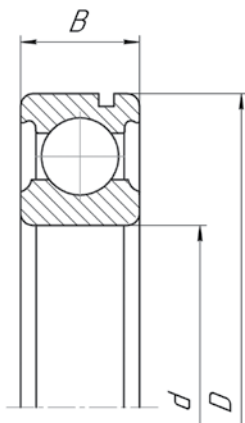


Fig. 2

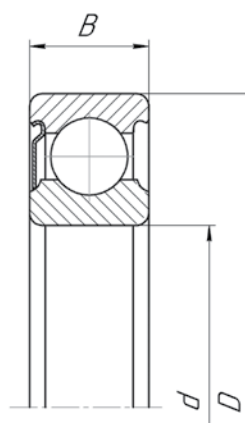


Fig. 3

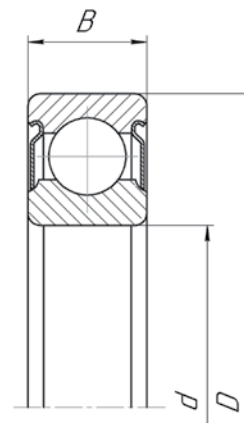


Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6305	6305-2RSP6	6-180305AC17	25	62	17	0,22	23,6	11,6	8500	-	7
	6305-2RSP6	6-180305AC9Ш1	25	62	17	0,22	23,6	11,6	8500	-	7
	6305-2RSC3	70-180305AC17	25	62	17	0,22	23,6	11,6	8500	-	7
	6305-2RSP63	76-180305AC9Ш1	25	62	17	0,22	23,6	11,6	8500	-	7
	-	1160305	25	62	21	0,27	23,6	11,6	8500	-	6
	-	1180305AC9	25	62	21	0,27	23,6	11,6	8500	-	7
	-	6-1180305AC9	25	62	21	0,27	23,6	11,6	8500	-	7
6306	6306	306	30	72	19	0,35	28,1	14,6	9000	11000	1
	6306P6	6-306	30	72	19	0,35	28,1	14,6	9000	11000	1
	6306P6	6-306Ш1	30	72	19	0,35	28,1	14,6	9000	11000	1
	6306C3	70-306	30	72	19	0,35	28,1	14,6	9000	11000	1
	6306N	50306K	30	72	19	0,35	28,1	14,6	9000	11000	2
	6306NP6	6-50306KYШ1	30	72	19	0,35	28,1	14,6	9000	11000	2
6306	6306-Z	60306	30	72	19	0,35	28,1	14,6	9000	-	3
	6306-2Z	80306C17	30	72	19	0,35	28,1	14,6	9000	-	4
	6306-ZN	150306	30	72	19	0,35	28,1	14,6	9000	-	5
	6306-2RS	180306K3YC17	30	72	19	0,35	28,1	14,6	6300	-	7
	6306-2RSP6	6-180306K3YC17Ш	30	72	19	0,35	28,1	14,6	6300	-	7
	6306-2RSP6	6-180306K3YL20Ш	30	72	19	0,35	28,1	14,6	6300	-	7
	6306-2RSP64QE6	76-180306K3C9Ш2Y	30	72	19	0,35	28,1	14,6	6300	-	7
	6306-2RS X-Shield	180306K10C17	30	72	19	0,35	28,1	14,6	6300	-	8
6307	6307	307A	35	80	21	0,44	34,9	19,0	8500	10000	1
	6307P6	6-307A	35	80	21	0,44	34,9	19,0	8500	10000	1
	6307P6	6-307AШ1	35	80	21	0,44	34,9	19,0	8500	10000	1
	6307N	50307	35	80	21	0,44	34,9	19,0	8500	10000	2
	6307-Z	60307A	35	80	21	0,44	34,9	19,0	8500	-	3



SINGLE ROW DEEP GROOVE BALL BEARINGS

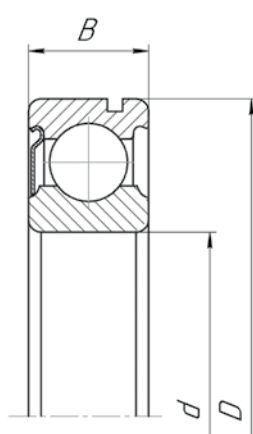


Fig. 5

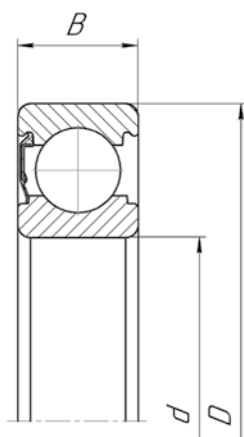


Fig. 6

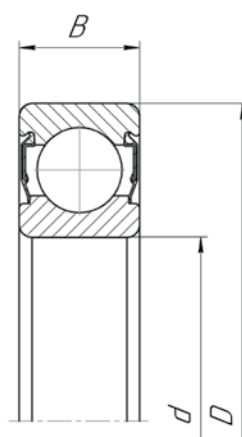


Fig. 7

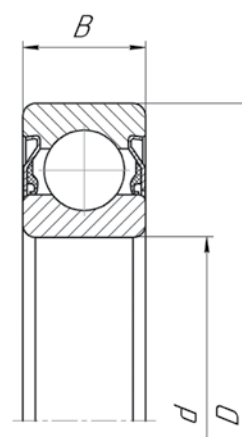


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6307	6307-2Z	80307AC17	35	80	21	0,44	34,9	19,0	8500	-	4
	6307-ZN	150307A	35	80	21	0,44	34,9	19,0	8500	-	5
	6307-2RS	180307C17	35	80	21	0,44	34,9	19,0	6000	-	7
	6307-2RSC3	70-180307C17	35	80	21	0,44	34,9	19,0	6000	-	7
	6307-2RSP63QE6	76-180307AC9Ш2Y	35	80	21	0,44	34,9	19,0	6000	-	7
6308	6308	308A	40	90	23	0,62	42,3	24,0	7500	9000	1
	6308P6	6-308A	40	90	23	0,62	42,3	24,0	7500	9000	1
	6308P6	6-308AШ1	40	90	23	0,62	42,3	24,0	7500	9000	1
	6308C3	70-308A	40	90	23	0,62	42,3	24,0	7500	9000	1
	6308N	50308A	40	90	23	0,62	42,3	24,0	7500	9000	2
	6308-Z	60308A1	40	90	23	0,62	42,3	24,0	7500	-	3
	6308-2Z	80308AC17	40	90	23	0,62	42,3	24,0	7500	-	4
	6308-2ZC3	70-80308AC17	40	90	23	0,62	42,3	24,0	7500	-	4
	6308-ZN	150308A	40	90	23	0,62	42,3	24,0	7500	-	5
	6308-2RS	180308C17	40	90	23	0,62	42,3	24,0	5000	-	7
	6308-2RSP6	6-180308C17	40	90	23	0,62	42,3	24,0	5000	-	7
	6308-2RSC3	70-180308C17	40	90	23	0,62	42,3	24,0	5000	-	7
	6308-2RS X-Shield	180308AK10C17	40	90	23	0,62	42,3	24,0	5000	-	8
6309	6309	309A	45	100	25	0,83	55,3	31,5	6700	8000	1
	6309P6	6-309A	45	100	25	0,83	55,3	31,5	6700	8000	1
	6309P6	6-309AШ1	45	100	25	0,83	55,3	31,5	6700	8000	1
	6309N	50309	45	100	25	0,83	55,3	31,5	6700	8000	2
	6309-Z	60309	45	100	25	0,83	55,3	31,5	6700	-	3
	6309-2Z	80309C17	45	100	25	0,83	55,3	31,5	6700	-	4
	6309-ZN	150309	45	100	25	0,83	55,3	31,5	6700	-	5
6309-2RS	180309C17	45	100	25	0,83	55,3	31,5	4400	-	7	



SINGLE ROW DEEP GROOVE BALL BEARINGS

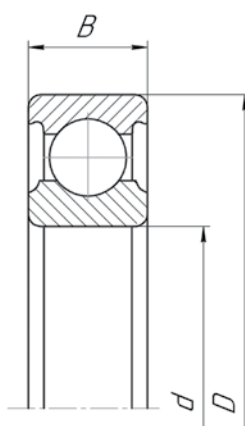


Fig. 1

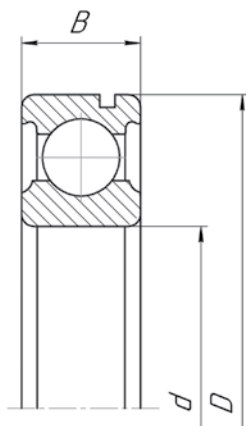


Fig. 2

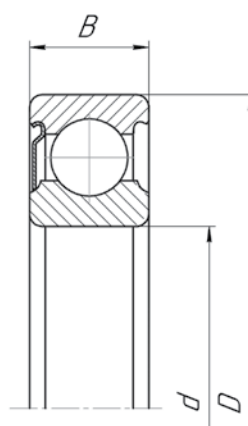


Fig. 3

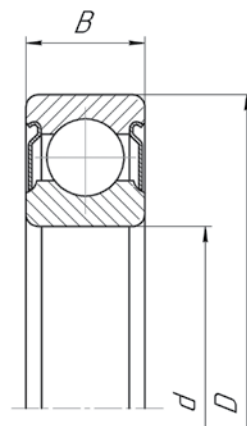


Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6309	6309-2RSP6	6-180309C17	45	100	25	0,83	55,3	31,5	4400	-	7
	6309-2RSP63	76-180309C9Ш1	45	100	25	0,83	55,3	31,5	4400	-	7
	6309-2RSP63QE6	76-180309C9Ш2Y	45	100	25	0,83	55,3	31,5	4400	-	7
	6309-2RS X-Shield	180309AK10C17	45	100	25	0,83	55,3	31,5	4400	-	8
6310	6310	310A	50	110	27	1,1	64,9	38,0	6300	7500	1
	6310P6	6-310A	50	110	27	1,1	64,9	38,0	6300	7500	1
	6310P6	6-310AШ1	50	110	27	1,1	64,9	38,0	6300	7500	1
	6310C3	70-310A	50	110	27	1,1	64,9	38,0	6300	7500	1
	6310N	50310A	50	110	27	1,1	64,9	38,0	6300	7500	2
	6310-Z	60310A	50	110	27	1,1	64,9	38,0	6300	-	3
	6310-2Z	80310AC17	50	110	27	1,1	64,9	38,0	6300	-	4
	6310-2ZC3	70-80310AC17	50	110	27	1,1	64,9	38,0	6300	-	4
	6310-ZN	150310A	50	110	27	1,1	64,9	38,0	6300	-	5
	6310-2RS	180310AC17	50	110	27	1,1	64,9	38,0	4000	-	7
	6310-2RSP63QE6	76-180310AC9Ш2Y	50	110	27	1,1	64,9	38,0	4000	-	7
6310-2RS X-Shield	180310AK10C17	50	110	27	1,1	64,9	38,0	4000	-	8	
6311	6311	311A	55	120	29	1,4	75,1	45,0	5600	6700	1
	6311P6	6-311A	55	120	29	1,4	75,1	45,0	5600	6700	1
	6311C3	70-311A	55	120	29	1,4	75,1	45,0	5600	6700	1
	6311N	50311A	55	120	29	1,4	75,1	45,0	5600	6700	2
	6311-Z	60311	55	120	29	1,4	75,1	45,0	5600	-	3
	6311-2Z	80311C17	55	120	29	1,4	75,1	45,0	5600	-	4
	6311-ZN	150311A	55	120	29	1,4	75,1	45,0	5600	-	5
6312	6312	312A	60	130	31	1,8	86,0	52,0	5000	6000	1
	6312	6-312A	60	130	31	1,8	86,0	52,0	5000	6000	1
	6312C3	70-312A	60	130	31	1,8	86,0	52,0	5000	6000	1
	6312N	50312A	60	130	31	1,8	86,0	52,0	5000	6000	2

SINGLE ROW DEEP GROOVE BALL BEARINGS

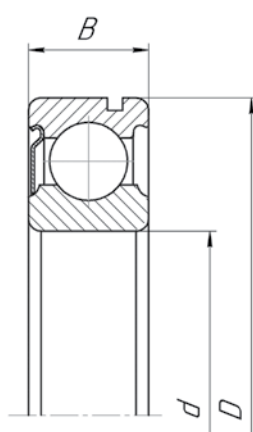


Fig. 5

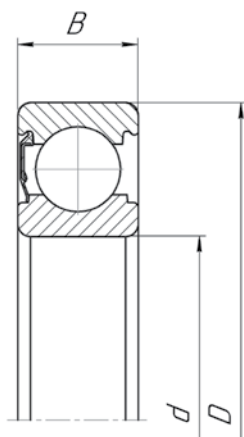


Fig. 6

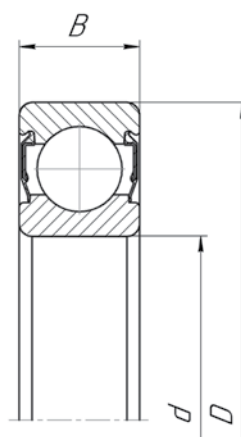


Fig. 7

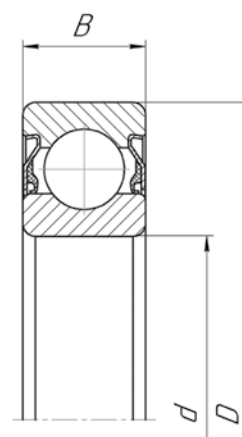


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6312	6312-Z	60312	60	130	31	1,8	86,0	52,0	5000	-	3
	6312-2Z	80312C17	60	130	31	1,8	86,0	52,0	5000	-	4
	6312-2RS	180312C17	60	130	31	1,8	86,0	52,0	3300	-	7
	6312-2RSP6	6-180312C9	60	130	31	1,8	86,0	52,0	3300	-	7
	6312-2RSP63QE6	76-180312AK1C9Ш2Y	60	130	31	1,8	86,0	52,0	3300	-	7
6313	6313	313A	65	140	33	2,2	96,9	60,0	4800	5600	1
	6313	6-313A	65	140	33	2,2	96,9	60,0	4800	5600	1
	6313P6	6-313AШ1	65	140	33	2,2	96,9	60,0	4800	5600	1
	6313C3	70-313A	65	140	33	2,2	96,9	60,0	4800	5600	1
	6313N	50313A	65	140	33	2,2	96,9	60,0	4800	5600	2
	6313-Z	60313A	65	140	33	2,2	96,6	60,0	4800	-	3
	6313-2Z	80313AC17	65	140	33	2,2	96,6	60,0	4800	-	4
6314	6314	314A	70	150	35	2,6	109	68,0	4500	5300	1
	6314P6	6-314AШ1	70	150	35	2,6	109	68,0	4500	5300	1
	6314C3	70-314A	70	150	35	2,6	109	68,0	4500	5300	1
	6314N	50314A	70	150	35	2,6	109	68,0	4500	5300	2
	6314-Z	60314A	70	150	35	2,6	109	68,0	4500	-	3
	6314-2Z	80314AC17	70	150	35	2,6	109	68,0	4500	-	4
6315	6315	315A	75	160	37	3,0	118	76,5	4300	5000	1
	6315	315AШ	75	160	37	3,0	118	76,5	4300	5000	1
	6315P6	6-315A	75	160	37	3,0	118	76,5	4300	5000	1
	6315P6	6-315AШ1	75	160	37	3,0	118	76,5	4300	5000	1
	6315C3	70-315AШ	75	160	37	3,0	118	76,5	4300	5000	1
	6315N	50315A	75	160	37	3,0	118	76,5	4300	5000	2
	6315-Z	60315A	75	160	37	3,0	118	76,5	4300	-	3
	6315-ZC3	70-60315A	75	160	37	3,0	118	76,5	4300	-	3
	6315-2Z	80315AC17	75	160	37	3,0	118	76,5	4300	-	4



SINGLE ROW DEEP GROOVE BALL BEARINGS

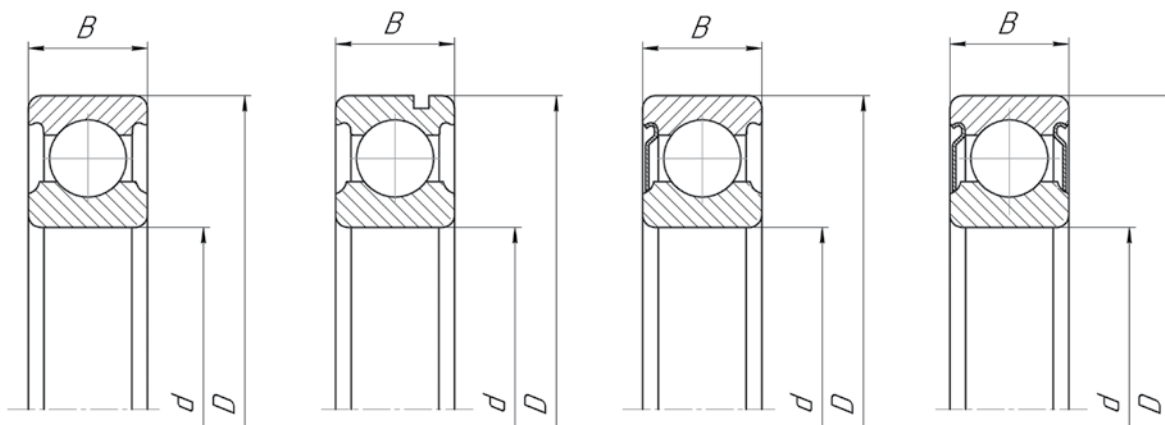


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6315	6315-2ZC3	70-80315AC17	75	160	37	3,0	118	76,5	4300	-	4
	6315-2RSP63QE6	76-180315AK1C9Ш2Y	75	160	37	3,0	118	76,5	2700	-	7
6316	6316	316A	80	170	39	3,7	130	86,5	3800	4500	1
	6316	316AШ	80	170	39	3,7	130	86,5	3800	4500	1
	6316P6	6-316AШ1	80	170	39	3,7	130	86,5	3800	4500	1
	6316-2RS	180316AC17	80	170	39	3,7	130	86,5	2500	-	7
6317	6317	317A	85	180	41	4,3	140	96,5	3600	4300	1
	6317P6	6-317A	85	180	41	4,3	140	96,5	3600	4300	1
	6317P6	6-317Ш1Y	85	180	41	4,3	140	96,5	3600	4300	1
	6317P6QE6	6-317Ш2Y	85	180	41	4,3	140	96,5	3600	4300	1
	6317C3	70-317A	85	180	41	4,3	140	96,5	3600	4300	1
	6317P63QE6	76-317ЛШ2	85	180	41	4,3	140	96,5	3600	4300	1
	6317P63QE6	76-317Ш2Y	85	180	41	4,3	140	96,5	3600	4300	1
	6317-Z	60317A	85	180	41	4,3	140	96,5	3600	-	3
	6317-2Z	80317AC17	85	180	41	4,3	140	96,5	3600	-	4
6317-2ZP63	76-80317AC9	85	180	41	4,3	140	96,5	3600	-	4	
6318	6318	318A	90	190	43	4,9	151	108	3400	4000	1
	6318C3	70-318A	90	190	43	4,9	151	108	3400	4000	1
6319	6319	319A	95	200	45	5,9	160	118	3200	3800	1
	6319P6	6-319A	95	200	45	5,9	160	118	3200	3800	1
6320	6320	320A	100	215	47	7,2	183	140	3000	3600	1
	6320P63QE6	76-320ЛШ2	100	215	47	7,2	183	140	3000	3600	1
6322	6322	322A	110	240	50	9,4	213	180	2600	3200	1
	6322P63QE6	76-322ЛШ2	110	240	50	9,4	213	180	2600	3200	1
6406	6406	406	30	90	23	0,70	47,0	26,7	8500	10000	1
	6406P6	6-406	30	90	23	0,70	47,0	26,7	8500	10000	1

SINGLE ROW DEEP GROOVE BALL BEARINGS

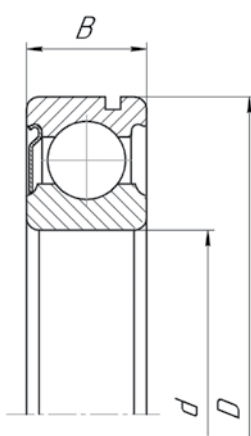


Fig. 5

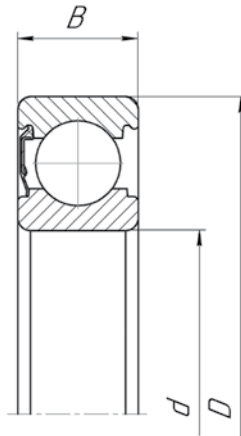


Fig. 6

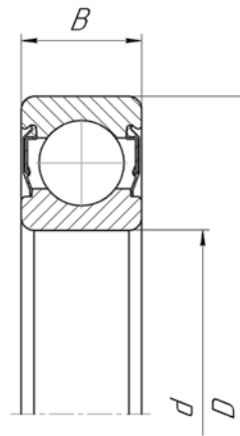


Fig. 7

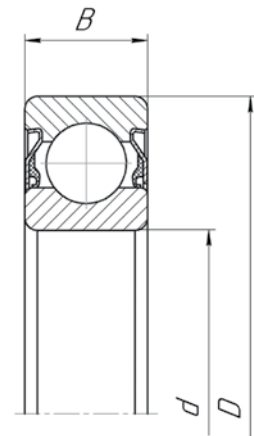


Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №	
								Type of grease			
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	Mineral oil		
6406	6406C3	70-406	30	90	23	0,70	47,0	26,7	8500	10000	1
	6406N	50406	30	90	23	0,70	47,0	26,7	8500	10000	2
6407	6407	407	35	100	25	0,90	55,3	31,0	7000	8500	1
	6407N	50407	35	100	25	0,90	55,3	31,0	7000	8500	2
6408	6408	408	40	110	27	1,2	63,7	36,5	6700	8000	1
	6408N	50408	40	110	27	1,2	63,7	36,5	6000	7000	2
6409	6409	409	45	120	29	1,5	76,1	45,5	6000	7000	1
	6409P6	6-409Ш1	45	120	29	1,5	76,1	45,5	6000	7000	1
	6409C3	70-409	45	120	29	1,5	76,1	45,5	6000	7000	1
	6409N	50409	45	120	29	1,5	76,1	45,5	6000	7000	2
	6409NC3	70-50409	45	120	29	1,5	76,1	45,5	6000	7000	2
6410	6410	410	50	130	31	2,0	87,1	52,0	5300	6300	1
	6410N	50410	50	130	31	2,0	87,1	52,0	5300	6300	2
6411	6411	411	55	140	33	2,3	100	63,0	5000	6000	1
	6411N	50411	55	140	33	2,3	100	63,0	4800	5600	2
6412	6412	412	60	150	35	2,8	108	70,0	4800	5600	1
	6412N	50412	60	150	35	2,8	108	70,0	4500	5300	2
6413	6413	413A	65	160	37	3,2	124	78,0	4500	5300	1
	6413P6	6-413Ш1	65	160	37	3,2	124	78,0	4500	5300	1
	6413C3	70-413A	65	160	37	3,2	124	78,0	4500	5300	1
	6413N	50413A	65	160	37	3,2	124	78,0	4500	5300	2
6414	6414	414A	70	180	42	4,7	150	105	3800	4500	1
6416	6416	416A	80	200	48	6,8	172	125	3400	4000	1
62203	62203-2RS	180503C17	17	40	16	0,08	10,4	4,7	12000		7
	62203-2RSP6	6-180503C17	17	40	16	0,08	10,4	4,7	12000		7
62204	62204-2RS	180504C17	20	47	18	0,13	13,3	6,5	10000		7

SINGLE ROW DEEP GROOVE BALL BEARINGS

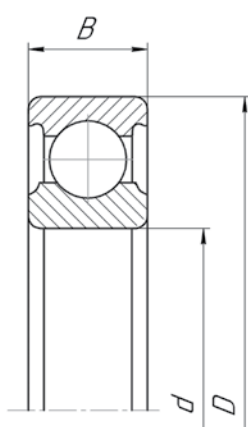


Fig. 1

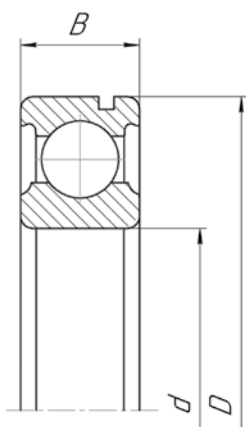


Fig. 2

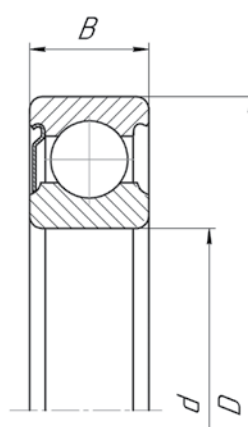


Fig. 3

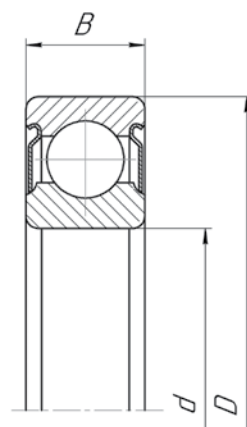


Fig. 4

Bearing designation			Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
									Type of grease	
ISO	GOST		d	D	B	m	Dynamic	Static	Solid	
62204	62204-2RSP6	6-180504C17	20	47	18	0,13	13,3	6,5	10000	7
62205	62205-2RS	180505YC17Ш	25	52	18	0,15	14,7	7,0	8500	7
	62205-2RSP6	6-180505YC17	25	52	18	0,15	14,7	7,0	8500	7
	62205-2RSP6	6-180505YC17Ш1	25	52	18	0,15	14,7	7,0	8500	7
	62205-2RSP6	6-180505YC17Ш1	25	52	18	0,15	14,7	7,0	8500	7
62208	62208-2RS	180508AC17	40	80	23	0,46	33,6	19,0	5600	7
	62208-2RSP6	6-180508AC17	40	80	23	0,46	33,6	19,0	5600	7
	62208-2RSP6	6-180508YL20Ш	40	80	23	0,46	33,6	19,0	5600	7
	62208-2RSP6	6-180508AKYL20Ш	40	80	23	0,46	33,6	19,0	5600	7
62303	62303-2RS	180603C17	17	47	19	0,20	13,5	6,5	11000	7
	62303-2RSP6	6-180603C17	17	47	19	0,20	13,5	6,5	11000	7
62304	62304-2RS	180604C17	20	52	21	0,20	15,9	7,8	9500	7
62305	62305-2RS	180605AC9	25	62	24	0,30	23,6	11,6	7500	7
	62305-2RS	180605AC17	25	62	24	0,30	23,6	11,6	7500	7
	62305-2RSP6	6-180605C17	25	62	24	0,30	23,6	11,6	7500	7
	62305-2RSP6	6-180605AC9Ш1	25	62	24	0,30	23,6	11,6	7500	7
	62305-2RSP63	76-180605AC9Ш1	25	62	24	0,30	23,6	11,6	7500	7
62306	62306-2RS	180606C9	30	72	27	0,47	28,1	14,6	6300	7
	62306-2RS	180606C17	30	72	27	0,47	28,1	14,6	6300	7
	62306-2RSP6	6-180606C17	30	72	27	0,47	28,1	14,6	6300	7
62307	62307-2RS	180607C9	35	80	31	0,62	34,9	19,0	5600	7
	62307-2RS	180607C17	35	80	31	0,62	34,9	19,0	5600	7
	62307-2RSP6	6-180607C9	35	80	31	0,62	34,9	19,0	5600	7
	62307-2RSP6	6-180607C17	35	80	31	0,62	34,9	19,0	5600	7
62308	62308-2RS	180608C9	40	90	33	0,90	42,3	24,0	5000	7
	62308-2RS	180608C17	40	90	33	0,90	42,3	24,0	5000	7
	62308-2RSP6	6-180608C9	40	90	33	0,90	42,3	24,0	5000	7
62309	62309-2RS	180609AC9	45	100	36	1,2	55,3	31,5	4400	7

SINGLE ROW DEEP GROOVE BALL BEARINGS

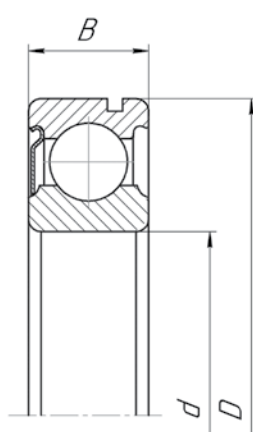


Fig. 5

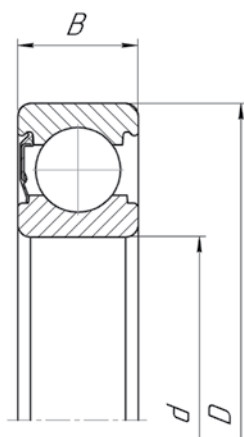


Fig. 6

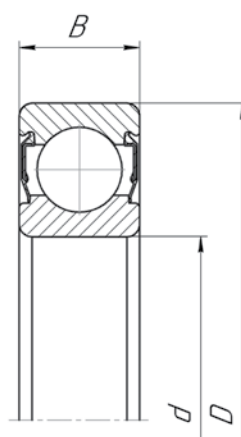


Fig. 7

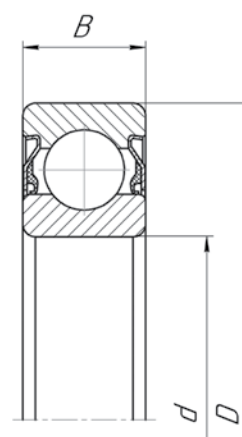


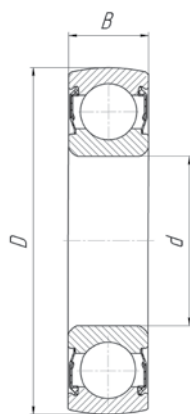
Fig. 8

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №
								Type of grease		
ISO	GOST	d	D	B	m	Dynamic	Static	Solid		
62309	62309-2RSP6	6-180609C9	45	100	36	1,2	55,3	31,5	4400	7
	62309-2RSP63	76-180609AC9Ш1	45	100	36	1,2	55,3	31,5	4400	7
62310	62310-2RS	180610C17	50	110	40	1,6	64,9	38,0	4000	7
	62310-2RSP6	6-180610C17	50	110	40	1,6	64,9	38,0	4000	7
	62310-2RS X-Shield	180610AK10C17	50	110	40	1,6	64,9	38,0	4000	8
62312	62312-2RS	180612AC17	60	130	46	2,5	86,0	52,0	3300	7
65203	65203-RS	20703K	17	40	14	0,07	9,5	4,5	4000	6
	65203-RSP6	6-20703K	17	40	14	0,07	9,5	4,5	4000	6
65303	65303-RS	20803K	17	47	15	0,1	14,3	6,5	3200	6
	65303-RSTV	20803EK	17	47	15	0,1	14,3	6,5	3200	6
	65303-RSTVP6	6-20803EK	17	47	15	0,1	14,3	6,5	3200	6

Non-standardized series

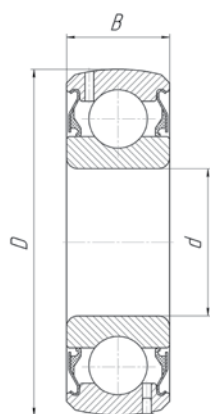
-	6-60903A1	16	40	12	0,1	9,5	4,5	16000	-	3
615722	6-50706VШ1	30	75	19	0,4	33,3	17,8	8000	10000	2
615722	6-50706EYШ1	30	75	19	0,4	20,2	17,8	8000	10000	2
615722	6-50706AEYШ1	30	75	19	0,4	32,8	17,8	8000	10000	2
-	180707C17	35	80	23	0,5	34,9	19,0	6000	-	7
-	180712AK10C17	60	110	24	0,85	54,6	31,0	4000	-	8

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SPHERICAL MOUNTING SURFACE OF OUTER RING



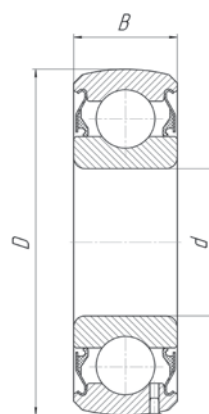
Maintenance free

Fig. 9



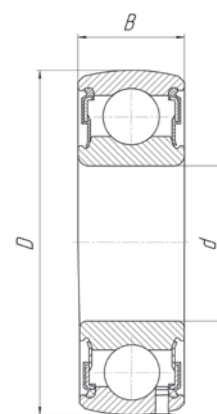
Relubricable

Fig. 10



Maintenance free

Fig. 11



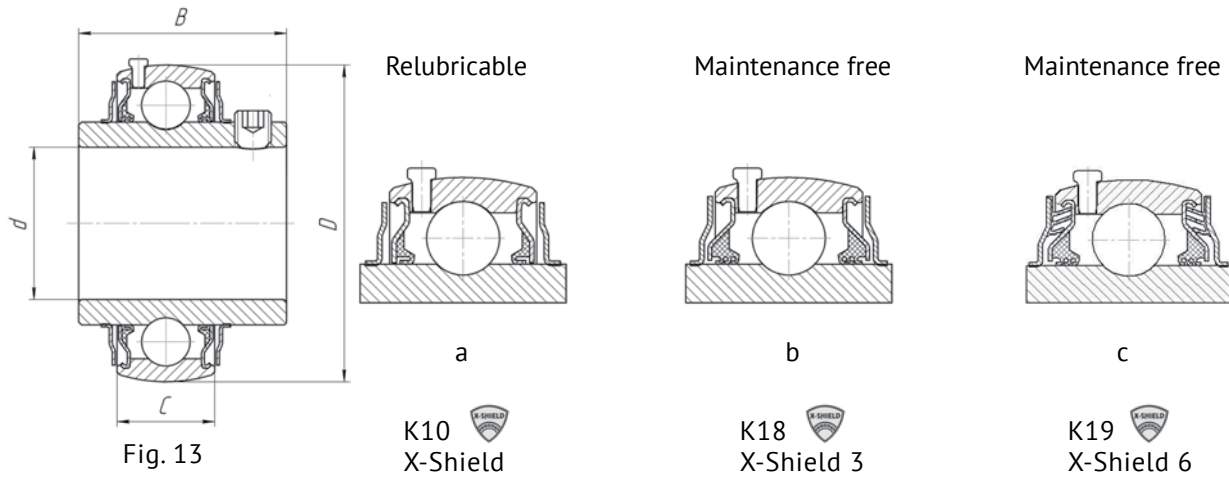
Maintenance free

Fig. 12

Bearing designation			Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
									Type of grease	
ISO	GOST		d	D	B	m	Dynamic	Static	Solid	
76204	76204-2RS X-Shield	580204AK10C17	20	47	14	0,10	13,3	6,5	10000	11
76205	76205-2RS	580205AC17	25	52	15	0,12	14,7	7,0	8500	9
	76205-2RSTV	580205AEK7C17	25	52	15	0,12	14,7	7,0	8500	12
	76205-2RSTV X-Shield	580205AEK10C17	25	52	15	0,12	14,7	7,0	8500	11
76306	76306-2RS	580306K7C17	30	72	19	0,34	28,1	14,6	6300	12

HARP / GOST										
1580206EK10T2C17		30	62	18	0,22	19,5	11,3		7500	11
1580207EK10T2C17		35	72	20	0,31	26,8	15,3		6300	11
1580209EK10T2C17		45	85	21	0,40	34,9	21,6		5000	11
1580211EHK10T2C17		55	100	23	0,66	45,8	29,0		4300	10
1580211EK10T2C17		55	100	23	0,66	45,8	29,0		4300	11

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SPHERICAL MOUNTING SURFACE OF OUTER RING AND LOCKING PIN ON INNER RING



Bearing designation		Dimensions, mm				Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
									Type of grease	
ISO	HARP/GOST	d	D	B	C	m	Dynamic	Static	Solid	
UC205	480205AEHK10T2C17-UC205	25	52	34,1	16	0,19	14,7	7,9	7000	13a
	480205AEK18T2C17	25	52	34,1	16	0,19	14,7	7,9	1400	13b
	480205AEK19T2C17	25	52	34,1	16	0,19	14,7	7,9	900	13c
UC206	480206EHK10T2C17-UC206	30	62	38,1	18	0,31	19,5	11,3	6300	13a
	480206EK18T2C17	30	62	38,1	18	0,31	19,5	11,3	1200	13b
	480206EK19T2C17	30	62	38,1	18	0,31	19,5	11,3	800	13c
UC207	480207EHK10T2C17-UC207	35	72	42,9	20	0,47	25,7	15,3	5300	13a
	480207EK18T2C17	35	72	42,9	20	0,47	25,7	15,3	1000	13b
	480207EK19T2C17	35	72	42,9	20	0,47	25,7	15,3	700	13c
UC208	480208EHK10T2C17-UC208	40	80	49,2	21	0,60	32,6	19,8	4800	13a
	480208EK18T2C17	40	80	49,2	21	0,60	32,6	19,8	900	13b
	480208EK19T2C17	40	80	49,2	21	0,60	32,6	19,8	600	13c
UC209	480209EHK10T2C17-UC209	45	85	49,2	21	0,66	32,8	20,5	4300	13a
	480209EK18T2C17	45	85	49,2	21	0,66	32,8	20,5	800	13b
	480209EK19T2C17	45	85	49,2	21	0,66	32,8	20,5	550	13c
UC210	480210EHK10T2C17-UC210	50	90	51,6	23	0,75	35,1	23,3	4000	13a
	480210EK18T2C17	50	90	51,6	23	0,75	35,1	23,3	750	13b
	480210EK19T2C17	50	90	51,6	23	0,75	35,1	23,3	500	13c

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SPHERICAL MOUNTING SURFACE OF OUTER RING AND ECCENTRIC LOCKING RING

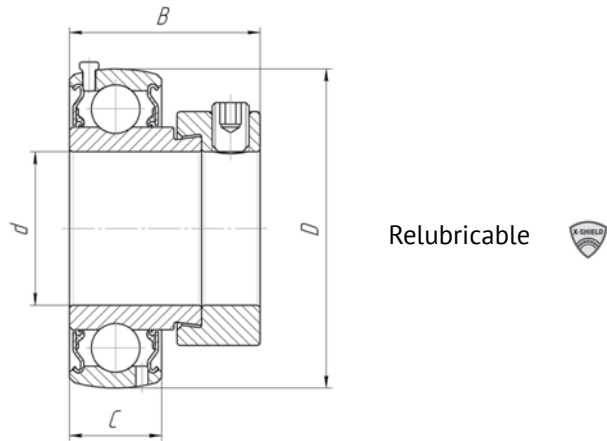


Fig. 14

Bearing designation		Dimensions, mm				Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
									Type of grease	
ISO	HARP/GOST	d	D	B	C	m	Dynamic	Static	Solid	
ES205	780205KAEHK10T2C17-ES205	25	52	31	15	0,19	14,7	7,9	7000	14
ES206	780206KEHK10T2C17-ES206	30	62	35,7	18	0,32	19,5	11,3	6300	14
ES207	780207KEHK10T2C17-ES207	35	72	38,9	19	0,53	25,7	15,3	5300	14
ES208	780208KEHK10T2C17-ES208	40	80	43,7	21	0,64	32,6	19,8	4800	14

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SPHERICAL MOUNTING SURFACE OF OUTER RING AND ECCENTRIC LOCKING RING

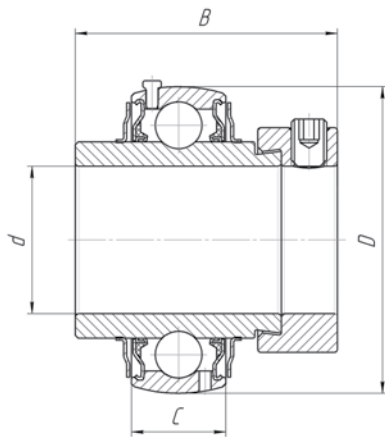
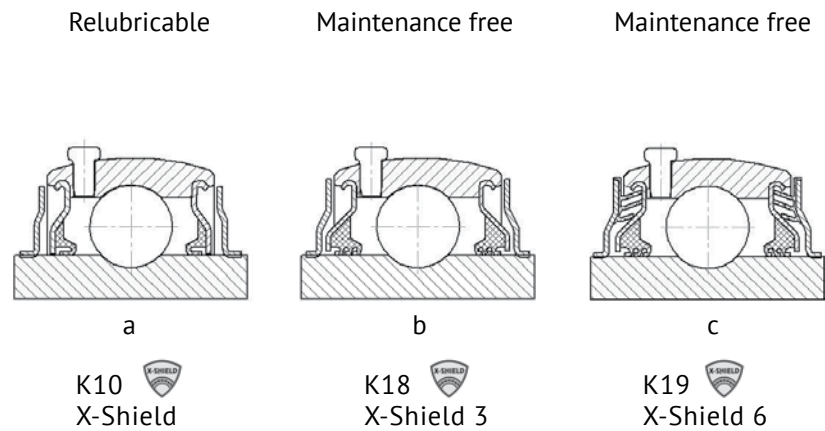
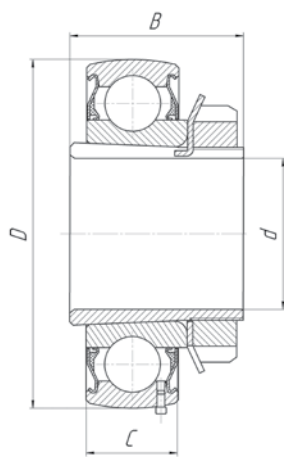


Fig. 15



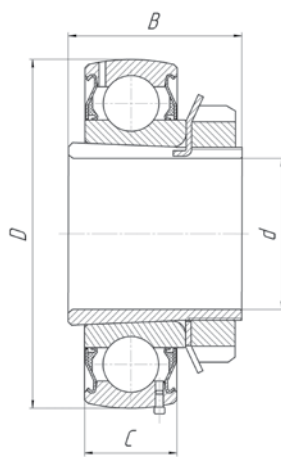
Bearing designation		Dimensions, mm				Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
									Type of grease	
ISO	HARP/GOST	d	D	B	C	m	Dynamic	Static	Solid	
EX205	780205AEHK10T2C17-EX205	25	52	44,4	16	0,25	14,7	7,9	7000	15a
	780205AEK18T2C17	25	52	44,4	16	0,25	14,7	7,9	1400	15b
	780205AEK19T2C17	25	52	44,4	16	0,25	14,7	7,9	900	15c
EX206	780206AEHK10T2C17-EX206	30	62	48,4	18	0,39	19,5	11,3	6300	15a
	780206AEK18T2C17	30	62	48,4	18	0,39	19,5	11,3	1200	15b
	780206AEK19T2C17	30	62	48,4	18	0,39	19,5	11,3	800	15c
EX207	780207EHK10T2C17-EX207	35	72	51,1	20	0,61	25,7	15,3	5300	15a
	780207EK18T2C17	35	72	51,1	20	0,61	25,7	15,3	1000	15b
	780207EK19T2C17	35	72	51,1	20	0,61	25,7	15,3	700	15c
EX210	780210AEHK10T2C17-EX210	50	90	62,7	23	0,94	35,1	23,3	4000	15a
	780210AEK18T2C17	50	90	62,7	23	0,94	35,1	23,3	750	15b
	780210AEK19T2C17	50	90	62,7	23	0,94	35,1	23,3	500	15c
-	780716EHK7C17	80	150	71	39	4,6	71,0	53,0	2400	15a

SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SPHERICAL MOUNTING SURFACE OF OUTER RING AND ADAPTER SLEEVE



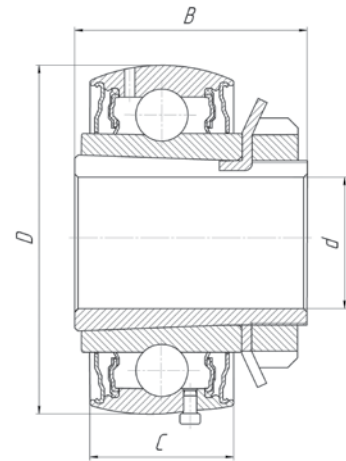
Maintenance free

Fig. 16



Relubricable

Fig. 17



Relubricable

Fig. 18

Bearing designation	Dimensions, mm				Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
	d	D	B	C		Dynamic	Static	Type of grease	
HARP/GOST					m			Solid	
680210A2HK7C17	50	100	45	25	1,1	45,5	29,6	4000	18
680210AEHK10C17	50	100	45	25	1,1	45,8	29,0	4000	17
680314EHK7C17	70	150	70	39	3,6	71,0	53,0	3000	18
1680204AEK10C17	20	52	29	16	0,20	14,7	7,0	8500	16
1680205EK10T2C17	25	62	31	18	0,30	19,5	11,3	7000	16
1680206EK10T2C17	30	72	35	20	0,49	26,8	15,3	6300	16
1680207EK10T2C17	35	80	36	21	0,54	33,6	19,0	5300	16
1680208EK10T2C17	40	85	39	21	0,68	34,9	21,6	4800	16
1680208EHK10T2C17	40	85	39	21	0,68	34,9	21,6	4800	17



SINGLE ROW DEEP GROOVE BALL BEARINGS WITH SEALS AND ADAPTER SLEEVE

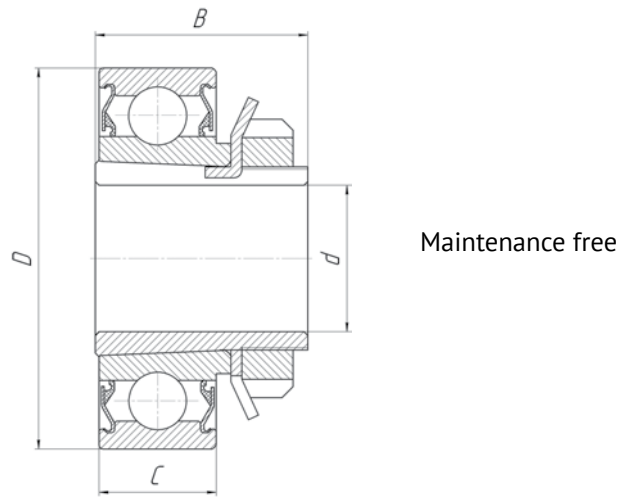


Fig. 19

Bearing designation	Dimensions, mm				Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
								Type of grease	
HARP/GOST	d	D	B	C	m	Dynamic	Static	Solid	
380706T2C17	30	85	35	23	0,76	32,5	18	4800	19
380706K10T2C17	30	85	35	23	0,76	32,5	18	4800	19
380707T2C17	35	85	36	23	0,74	32,5	18	4800	19
380707K10T2C17	35	85	36	23	0,74	32,5	18	4800	19
380708EK10T2C17	40	85	39	23	0,74	27	19,3	4800	19



DOUBLE ROW SPHERICAL BALL BEARINGS

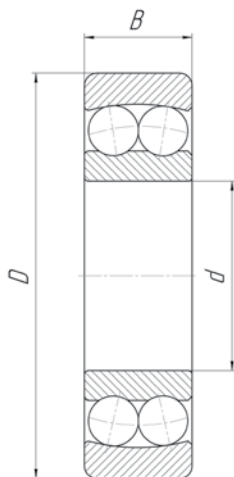


Fig. 20

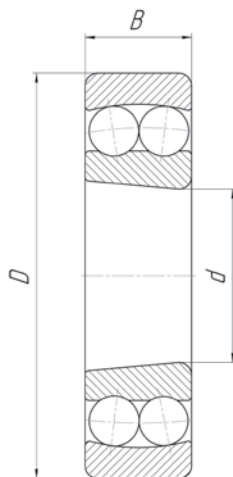


Fig. 21

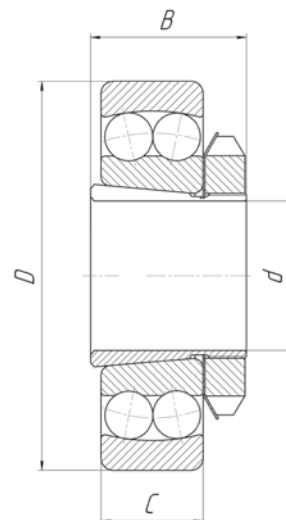


Fig. 22

Bearing designation			Dimensions, mm				Weight, kg m	Load ratings, kN		Max. rotational speed, rpm		«Fig. №»
ISO	HARP / GOST	d	D	B	C	Dynamic		Static	Type of grease			
							Solid		Mineral oil			
1203	1203	1203	17	40	12	-	0,07	8,0	2,7	18000	22000	
1204	1204	1204	20	47	14	-	0,12	10,0	3,5	15000	18000	20
	11204K	1205K+H205	20	52	26	15	0,20	12,2	4,0	13000	16000	22
1205	1205	1205	25	52	15	-	0,14	12,2	4,4	13000	16000	20
	111205	1205K	25	52	15	-	0,14	12,2	4,4	13000	16000	21
	11205K	1206K+H206	25	62	27	16	0,30	15,6	6,2	10000	13000	22
1206	1206	1206	30	62	16	-	0,23	15,6	6,2	10000	13000	20
	111206	1206K	30	62	16	-	0,23	15,6	6,2	10000	13000	21
	11206K	1207K+H207	30	72	29	17	0,50	16,0	7,0	9000	11000	22
1207	1207	1207	35	72	17	-	0,30	16,0	7,0	9000	11000	20
	111207	1207K	35	72	17	-	0,30	16,0	7,0	9000	11000	21
	11207K	1208K+H208	35	80	31	18	0,60	19,3	8,8	8500	10000	22
1208	1208	1208	40	80	18	-	0,40	19,3	8,8	8500	10000	20
	111208	1208K	40	80	18	-	0,40	19,3	8,8	8500	10000	21
	11208	1209K+H209	40	85	33	19	0,70	22,0	10,0	7500	9000	22
1209	1209	1209	45	85	19	-	0,50	22,0	10,0	7500	9000	20
	111209	1209K	45	85	19	-	0,40	22,0	10,0	7500	9000	21
	11209	1210K+H210	45	90	35	20	0,80	22,8	11,0	7000	8500	22
1210	1210	1210	50	90	20	-	0,50	22,8	11,0	7000	8500	20
	111210	1210K	50	90	20	-	0,50	22,8	11,0	7000	8500	21
	11210K1	1211K+H211	50	100	37	21	1,0	27,0	13,7	6300	7500	22
1211	1211	1211	55	100	21	-	0,70	27,0	13,7	6300	7500	20
	111211	1211K	55	100	21	-	0,70	27,0	13,7	6300	7500	21
	11211	1212K+H212	55	110	38	22	1,2	30,0	16,0	5600	6700	22
1212	1212	1212	60	110	22	-	0,90	30,0	16,0	5600	6700	20
	111212	1212K	60	110	22	-	0,80	30,0	16,0	5600	6700	21
	11212K	1213K+H213	60	120	40	23	1,6	31,0	17,3	5300	6300	22

DOUBLE ROW SPHERICAL BALL BEARINGS

Bearing designation			Dimensions, mm				Weight, kg	Load ratings, kN		Max. rotational speed, rpm		«Fig. №»
ISO	HARP / GOST	d	D	B	C	m	Dynamic	Static	Type of grease			
									Solid	Mineral oil		
1213	1213	1213	65	120	23	-	1,2	31,0	17,3	5300	6300	20
	1213K	111213	65	120	23	-	1,1	31,0	17,3	5300	6300	21
	1213K+H213	11212K	60	120	40	23	1,6	31,0	17,3	5300	6300	22
1215	1215	1215	75	130	25	-	1,4	39,0	21,6	4800	5600	20
	1215K	111215	75	130	25	-	1,3	39,0	21,6	4800	5600	21
	1215K+H215	11213	65	130	43	25	2,1	39,0	21,6	4800	5600	22
1216	1216	1216	80	140	26	-	1,7	40,0	23,6	4500	5300	20
	1216K	111216	80	140	26	-	1,7	40,0	23,6	4500	5300	21
	1216K+H216	11214	70	140	46	26	2,6	40,0	23,6	4500	5300	22
1217	1217	1217	85	150	28	-	2,1	49,0	28,5	4000	4800	20
	1217K	111217	85	150	28	-	2,0	49,0	28,5	4000	4800	21
	1217K+H217	11215	75	150	50	28	3,1	48,8	28,5	4000	4800	22
1218	1218	1218	90	160	30	-	2,6	57,0	32,0	3800	4500	20
	1218K	111218	90	160	30	-	2,4	57,0	32,0	3800	4500	21
	1218K+H218	11216	80	160	52	30	3,7	57,0	32,0	3800	4500	22
1301	1301	1301	12	37	12	-	0,07	9,5	2,8	18000	22000	20
1303	1303	1303	17	47	14	-	0,13	12,5	4,2	14000	17000	20
1304	1304	1304	20	52	15	-	0,20	12,5	4,4	12000	15000	20
1305	1305	1305	25	62	17	-	0,30	18,0	6,7	9500	13000	20
1306	1306	1306	30	72	19	-	0,40	21,2	8,5	9000	11000	20
	1306P6	6-1306	30	72	19	-	0,40	21,2	8,5	9000	11000	20
	1306K	111306	30	72	19	-	0,40	21,2	8,5	9000	11000	21
	1306K+H306	11305K	25	72	31	19	0,50	21,2	8,5	9000	11000	22
1307	1307	1307	35	80	21	-	0,50	25,0	10,6	7500	9000	20
	1307K	111307	35	80	21	-	0,50	25,0	10,6	7500	9000	21
	1307K+H307	11306K	30	80	35	21	0,70	25,0	10,6	7500	9000	22

DOUBLE ROW SPHERICAL BALL BEARINGS

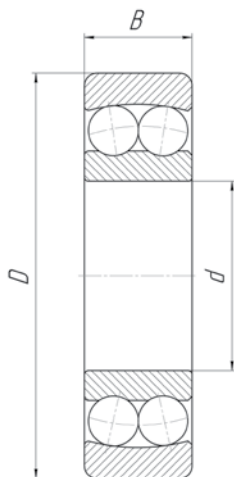


Fig. 20

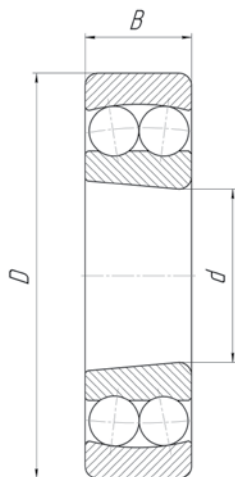


Fig. 21

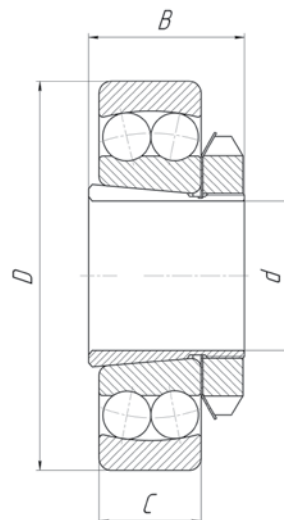


Fig. 22

Bearing designation			Dimensions, mm				Weight, kg	Load ratings, kN		Max. rotational speed, rpm		«Fig. №»
ISO	HARP / GOST	d	D	B	C	m	Dynamic	Static	Type of grease			
									Solid	Mineral oil		
1308	1308	1308	40	90	23	-	0,70	29,0	12,9	6700	8000	20
	1308K	111308	40	90	23	-	0,70	29,0	12,9	6700	8000	21
	1308K+H308	11307K	35	90	36	23	0,90	29,0	12,9	6700	8000	22
1309	1309	1309	45	100	25	-	0,90	38,0	17,0	6300	7500	20
	1309K	111309	45	100	25	-	0,90	38,0	17,0	6300	7500	21
	1309K+H309	11308	40	100	39	25	1,2	38,0	17,0	6300	7500	22
1310	1310	1310	50	110	27	-	1,3	41,5	19,3	5600	6700	20
	1310K	111310	50	110	27	-	1,2	41,5	19,3	5600	6700	21
	1310K+H310	11309	45	110	42	27	1,5	41,5	19,3	5600	6700	22
1311	1311	1311	55	120	29	-	1,6	51,0	24,0	5000	6000	20
	1311K	111311	55	120	29	-	1,5	51,0	24,0	5000	6000	21
	1311K+H311	11310K1	50	120	45	29	1,9	50,7	24,0	5000	6000	22
1312	1312	1312	60	130	31	-	1,8	57,0	28,0	4500	5300	20
	1312K	111312	60	130	31	-	1,7	57,0	28,0	4500	5300	21
	1312K+H312	11311	55	130	47	31	2,4	57,0	28,0	4500	5300	22
1313	1313	1313	65	140	33	-	2,4	62,0	31,0	4300	5000	20
	1313K	111313	65	140	33	-	2,4	62,0	31,0	4300	5000	21
	1313K+H313	11312K	60	140	50	33	2,8	62,0	31,0	4300	5000	22
	1313KTV+H313	11312EK	60	140	50	33	2,8	62,0	31,0	4300	5000	22
1314	1314	1314	70	150	35	-	3,0	75,0	37,5	4000	4800	20
1315	1315	1315	75	160	37	-	3,6	78,3	40,5	3800	4500	20
	1315K	111315	75	160	37	-	3,6	78,3	40,5	3800	4500	21
	1315K+H315	11313	65	160	55	37	4,4	79,3	40,5	3800	4500	22
1316	1316KTV+H316	11314E	70	170	59	39	5,0	88,4	42,0	3600	4300	22
1318	1318K	111318	90	190	43 (45)	-	5,6	117	56,0	3200	3800	21
	1318K+H318	11316K	80	190	65	43 (45)	6,9	117	56,0	3200	3800	22

DOUBLE ROW SPHERICAL BALL BEARINGS

Bearing designation			Dimensions, mm				Weight, kg	Load ratings, kN		Max.rotational speed, rpm		«Fig. №»
ISO	HARP / GOST	d	D	B	C	m	Dynamic	Static	Type of grease			
									Solid	Mineral oil		
2206	2206	1506	30	62	20	-	0,30	15,3	6,1	9500	12000	20
	2206K	111506	30	62	20	-	0,30	15,3	6,1	9500	12000	21
	2206K+H306	11505K	25	62	31	20	0,40	15,3	6,1	9500	12000	22
2207	2207	1507	35	72	23	-	0,40	21,6	8,8	8500	10000	20
	2207K	111507	35	72	23	-	0,40	21,6	8,8	8500	10000	21
	2207K+H307	11506K	30	72	35	23	0,60	21,6	8,8	8500	10000	22
2208	2208	1508	40	80	23	-	0,50	22,5	9,5	7500	9000	20
2212	2212	1512KY	60	110	28	-	1,1	34,0	17,3	5600	6700	20
2305	2305	1605	25	62	24	-	0,35	24,5	8,5	9500	12000	20
2306	2306	1606	30	72	27	-	0,50	31,2	11,4	8500	10000	20
	2306K	111606	30	72	27	-	0,50	31,2	11,4	8500	10000	21
	2306K+H2306	11605K	25	72	38	27	0,50	21,2	8,5	9000	11000	22
2307	2307	1607	35	80	31	-	0,70	39,0	14,6	7000	8500	20
	2307K	111607	35	80	31	-	0,42	39,0	14,6	7000	8500	21
	2307K+H2307	11606K	30	80	43	31	0,80	37,9	12,9	7000	8500	22
2308	2308	1608	40	90	33	-	0,90	45,0	17,6	6300	7500	20
	2308K	111608	40	90	33	-	0,90	45,0	17,6	6300	7500	21
2309	2309TV	1609E	45	100	36	-	1,2	54,0	19,4	5600	6700	20
2310	2310	1610	50	110	40	-	1,6	63,7	26,5	5300	6300	20
	2310K	111610	50	110	40	-	1,6	63,7	26,5	5300	6300	21
	2310K+H2310	11609	45	110	55	40	1,9	63,7	26,5	5300	6300	22
2311	2311	1611	55	120	43	-	2,1	75,0	31,5	4500	5600	20
	2311K	111611	55	120	43	-	2,1	75,0	31,5	4500	5600	21
2312	2312	1612	60	130	46	-	2,6	86,5	37,5	4000	5000	20
	2312K	111612	60	130	46	-	2,5	86,5	37,5	4000	5000	21
	2312K+H2312	11611	55	130	62	46	3,0	86,5	33,0	4000	5000	22
2313	2313	1613	65	140	48	-	3,2	95,0	43,0	3600	4500	20
	2313K	111613	65	140	48	-	3,2	95,0	43,0	3600	4500	21

ANGULAR CONTACT BALL BEARINGS

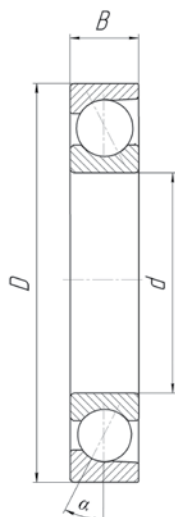


Fig. 23

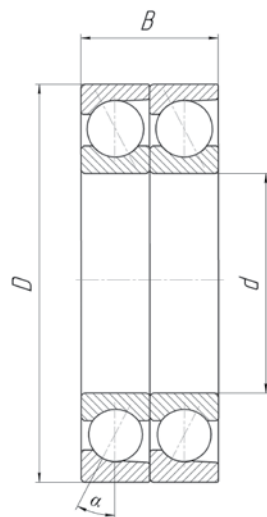


Fig. 24

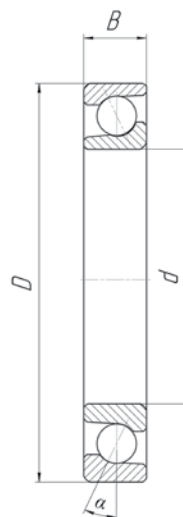


Fig. 25

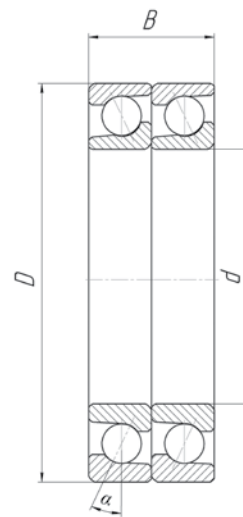


Fig. 26

Bearing designation			Dimensions, mm			Contact angle	Weight, kg	Load ratings, kN		Max. rotational speed, rpm		Fig. №
										Type of grease		
ISO	HARP/GOST	d	D	B	$\alpha, ^\circ$	m	Dynamic	Static	Solid	Mineral oil		
7000	7018AC	46118A	90	140	24	26	1,1	57,0	47,2	4800	6300	23
7000	7020AC	46120A	100	150	24	26	1,3	75,1	55,1	4300	5600	23
	7022ACMP6	6-46122Л	110	170	28	26	2,3	98,0	73,5	4000	5300	23
	7024ACMP6	6-46124Л	120	180	28	26	2,5	104	80,8	3600	4800	23
	7026ACMP6	6-46126Л	130	200	33	26	3,7	131	103	3200	4500	23
7200	7207ACP6	6-46207AE1Ш1	35	72	17	26	0,28	27,1	16,4	9000	11000	23
7300	7305B	26305K	25	62	17	40	0,30	26,0	15,0	9500	14000	25
	7305BP6	6-26305K	25	62	17	40	0,30	26,0	15,0	9500	14000	25
	7305BUA	426305K	25	62	34	40	0,50	44,5	28,6	7500	10000	26
	7305BUAP6	6-426305K	25	62	34	40	0,50	44,5	28,6	7500	10000	26
	7320ACMP6	6-46320Л	100	215	47	26	8,6	212	177	2400	3400	23
	7322BMP6	6-66322Л	110	240	50	36	11,5	235	190	2000	3000	23

SPECIAL TYPES OF AUTOMOTIVE BEARINGS

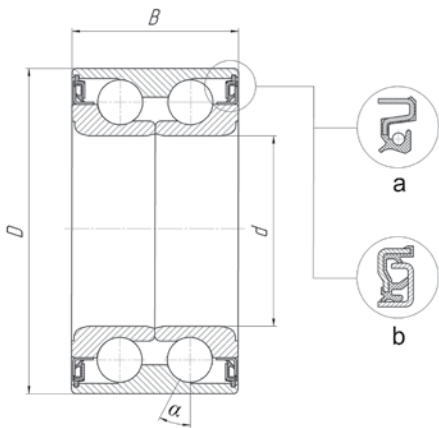


Fig. 27

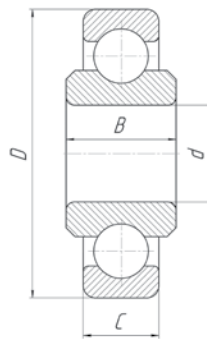


Fig. 28

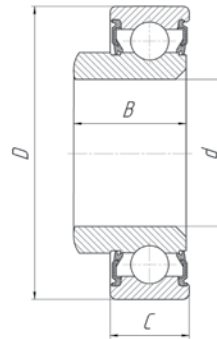


Fig. 29

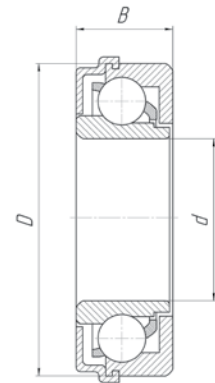


Fig. 30

Bearing designation	Dimensions, mm				Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
	d	D	B	C		Dynamic	Static	Type of grease	
HARP/GOST	d	D	B	C	m	Dynamic	Static	Solid	
900902 (TF69Y0-2902840)	14,05	42	16	16	0,93	12,9	8,3	-	28
76-520806K1YL19Ш1	31	55	18,5	19	0,14	11,2	7,4	7000	29
76-520806EK1YL19Ш1	31	55	18,5	19	0,14	11,2	7,4	7000	29
6-256907AEK12L19	34	64	37	-	0,46	40,0	27,8	3200	27a
6-256907AEK14L19	34	64	37	-	0,46	40,0	27,8	3200	27b
6-280114AC23	70	110	28	20	0,68	39,6	31,0	6000	29
986714K1C23	70	105	21	-	0,53	19,6	18,4	2800	30

SPECIAL TYPES OF AGRICULTURAL BEARINGS

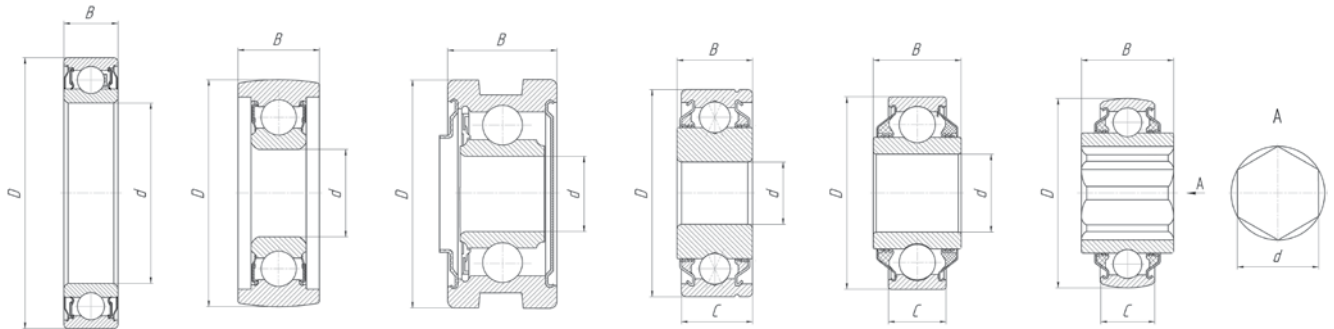


Fig. 31

Fig. 32

Fig. 33

Fig. 34

Fig. 35

Fig. 36

Bearing designation		Dimensions, mm				Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
									Type of grease	
HARP/GOST	Comparative designation	d	D	B	C	m	Dynamic	Static	Solid	
376905EKL19	AA205DD	16	53,09	18,29	19,4	0,22	14,0	7,9	1200	34
530903L19	203KRR.AH02	16,26	40	18,29	12	0,09	10,1	4,8	1500	35
70-140803AC17	-	17	46	20	-	0,20	9,5	4,5	10000	33
420905EL19	205KRRB2	22,25	52	25,40	15	0,20	14,0	7,8	1200	36
180706KC17	-	30	78	28	-	0,53	28,1	14,6	6300	32
2180120AEC17	-	100	150	30	-	1,5	63,5	54,0	2700	31
70-2180120AEC17	-	100	150	30	-	1,5	63,5	54,0	2700	31



CYLINDRICAL ROLLER BEARINGS

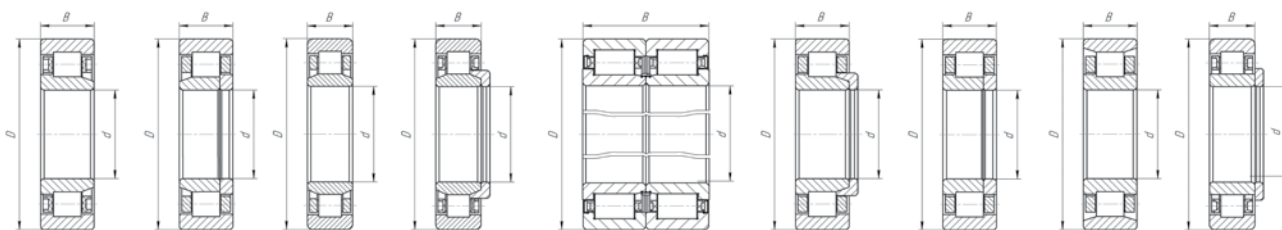


Рис. 37

Рис. 38

Рис. 39

Рис. 40

Рис. 41

Рис. 42

Рис. 43

Рис. 44

Рис. 45

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
								Type of grease	
ISO	GOST	d	D	B	m	Dynamic	Static	Solid	
NU417MC3	70-32417M	85	210	52	10,4	332	351	3600	39
NU417MC4	80-32417M	85	210	52	10,4	332	351	3600	39
NJ417PHA+HJ417	H0-62417E1M*	85	210	52/66	9,8	332	351	3600	42
NJ417M+HJ417	H0-62417K1M*	85	210	52/66	10,6	332	351	3600	42
NUP417PHA	H0-92417E1M*	85	210	52	10,5	332	351	3600	43
NUP417M	H0-92417K2M*	85	210	52	10,5	332	351	3600	43
NU419MC3	70-32419M	95	240	55	13,5	419	443	3200	39
NU419M	H0-32419M*	95	240	55	13,5	419	443	3200	39
NU419PHA	H0-32419E1M*	95	240	55	12,4	419	443	3200	39
N320M	2320M	100	215	47	8,2	303	313	2800	44
NU320P63MA	76-32320M	100	215	47	8,5	296	348	2800	39
N222M	2222M	110	200	38	5,1	229	250	3000	44
N322M	2322M	110	240	50	12,1	401	467	3000	44
NU322M	32322M	110	240	50	12,3	401	467	3000	39
NU322MC2	20-32322M	110	240	50	12,3	401	467	3000	39
NU322MC3	70-32322M	110	240	50	12,3	401	467	3000	39
NU332P63M	76-32322M	110	240	50	11,5	401	467	3000	39
NU322MC4	80-32322M*	110	240	50	12,3	401	467	3000	39
NJ322M	42322M	110	240	50	12,5	401	467	3000	37
N224M	2224M	120	215	40	6,3	284	374	2800	44
NU224M	32224M	120	215	40	6,2	284	374	2800	39
N324M	2324M	120	260	55	15,4	504	593	1600	44
NU324M	32324M	120	260	55	15,1	504	593	1600	39
NJ324M	42324M	120	260	55	15,2	504	593	1600	37
NU424MC3	70-32424M	120	310	72	29,6	695	805	1900	39
NU424M	H0-32424M*	120	310	72	29,6	695	805	1900	39
-	30-42724ЛМ*	120	240	80	18,2	548	713	1800	37
-	30-232724ЛМ*	120	240	80/81,2	18,2	548	713	1800	38

CYLINDRICAL ROLLER BEARINGS

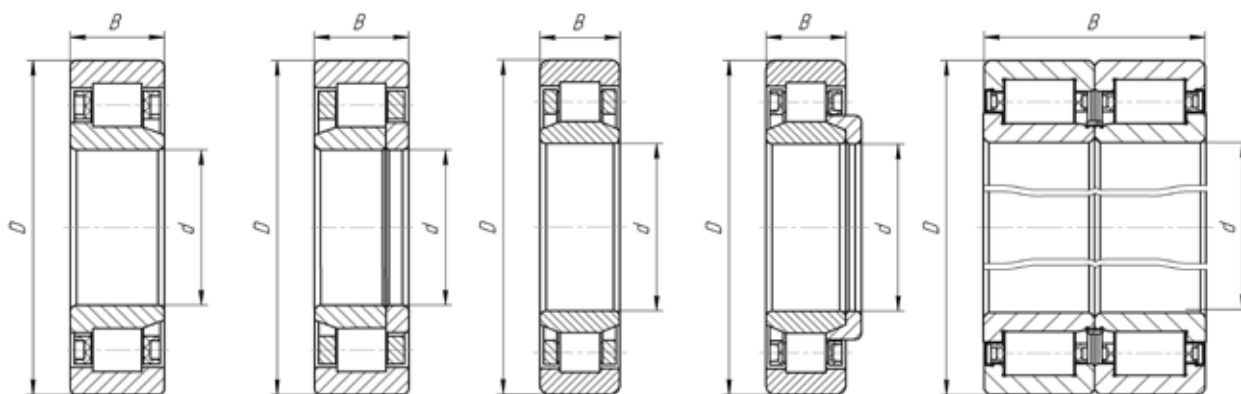


Fig. 37

Fig. 38

Fig. 39

Fig. 40

Fig. 41

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max.rotational speed, rpm	Fig. №
ISO	GOST	d	D	B		Dynamic	Static	Type of grease	
					Solid				
N226EM	2226AM	130	230	40	7,3	320	390	2600	44
N326M	2326M	130	280	58	18,4	603	716	2000	44
NU326M	32326M	130	280	58	18,3	603	716	2000	39
NJ326M	42326M	130	280	58	18,6	603	716	2000	37
-	30-32726Л1М*	130	250	80	18,5	554	722	1800	39
-	30-42726E2М*	130	250	80	17,1	584	774	1800	37
-	30-42726Л4М*	130	250	80	18,9	554	722	1800	37
-	36-42726E2М*	130	250	80	17,1	584	774	1800	37
-	30-232726E2М*	130	250	80/81,2	17,1	584	774	1800	38
-	30-232726Л4М*	130	250	80/81,2	18,9	554	722	1800	38
-	36-232726E2М*	130	250	80/81,2	17,1	584	774	1800	38
-	H6-82726E2K1MVC43*	130	250	160/161,2	35,0	1001	1548	1800	41
-	H6-82726E2K1MVC44*	130	250	160/161,2	35,0	1001	1548	1800	41
-	H6-82726E2K1MVC45*	130	250	160/161,2	35,0	1001	1548	1800	41
N228M	2228M	140	250	42	8,6	318	411	2400	44
NU228M	32228M	140	250	42	13,9	318	411	2400	39
NJ228M	42228M	140	250	42	14,0	318	411	2400	37
NJ428MC3	70-42428M	140	360	82	48,8	905	1046	1700	37
NJ428M	H0-42428M*	140	360	82	48,8	905	1046	1700	37
-	30-42728EM*	140	260	80	18,2	625	833	1800	37
-	30-42728Л4М*	140	260	80	19,9	625	833	1800	37
-	30-232728EM*	140	260	80/81,2	18,2	625	833	1800	38
-	30-232728Л4М*	140	260	80/81,2	19,9	625	833	1800	38
-	H0-32330EM*	150	320	65	24,3	675	777	2300	39
NU330M	H0-32330MY1*	150	320	65	26,8	675	777	2300	39
-	H0-42330EM*	150	320	65	24,3	675	777	2300	37

CYLINDRICAL ROLLER BEARINGS

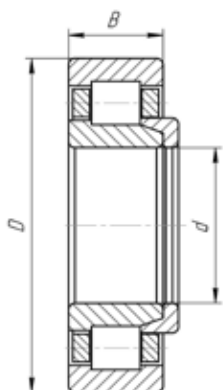


Fig. 42

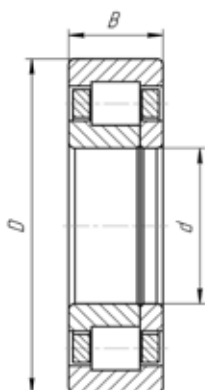


Fig. 43

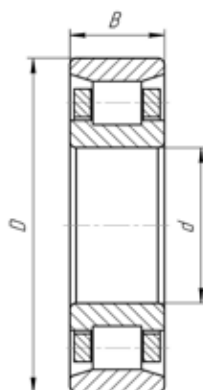


Fig. 44

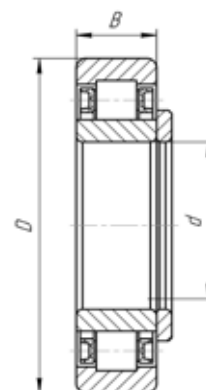
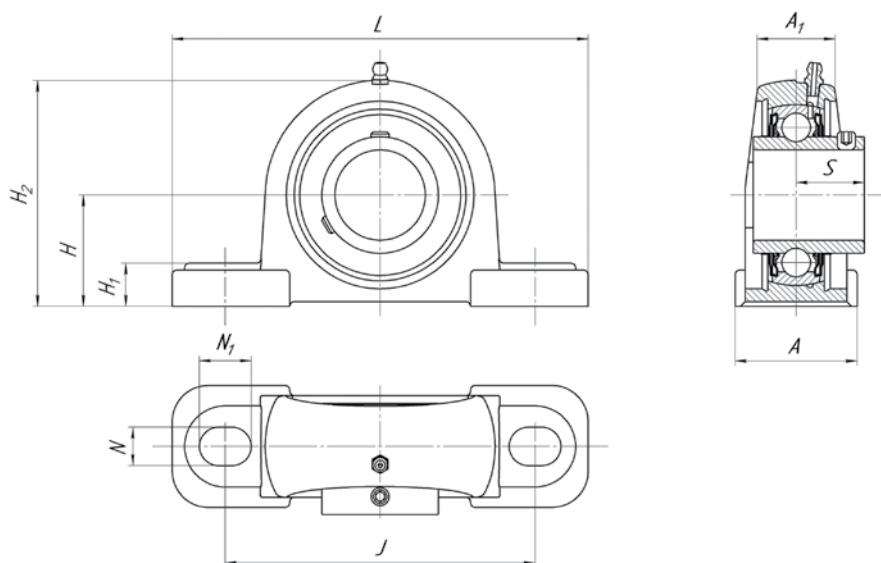


Fig. 45

Bearing designation		Dimensions, mm			Weight, kg	Load ratings, kN		Max. rotational speed, rpm	Fig. №
ISO	GOST	d	D	B		Dynamic	Static	Type of grease	
					m			Solid	
-	H0-42330Л1М*	150	320	65	27,0	675	777	2300	37
NJ330M+HJ330	H0-62330М*	150	320	80	29,8	675	777	2300	42
-	30-32630ЛМ*	150	320	108	43,2	1090	980	1700	39
NJ2330M	30-42630ЛМ*	150	320	108	44,6	1090	980	1700	37
-	30-52630ЛМ*	150	320	108/123	46,2	1090	980	1700	40
-	H0-32332AM1*	160	340	68	31,4	865	1060	2000	39
-	30-32532EM*	160	290	80	22,4	809	957	1800	39
NU223ECMA	30-32532Л1М*	160	290	80	24,5	809	957	1800	39
-	30-42532Л1М*	160	290	80	25,0	809	957	1800	37
-	30-152532EM*	160	290	80/94	23,9	809	957	1800	45
-	30-152532Л1М*	160	290	80/94	26,0	809	957	1800	45
-	30-32732ЛМ*	160	320	108	41,7	1090	1211	1800	39
-	30-52732ЛМ*	160	320	123	44,6	1090	1211	1800	40
-	1B0-32134ЛМ	170	260	42	8,6	302	434	2200	39
-	30-42536EM*	180	320	86	28,9	1010	1094	1600	37
NJ2236ECMA	30-42536ЛМ*	180	320	86	31,8	1010	1094	1600	37
NU2236PHAC3+HJ2236EC	30-52536EM*	180	320	86	30,3	1010	1094	1600	40
NU2236ECMA+HJ2236EC	30-52536ЛМ*	180	320	86	33,1	1010	1094	1600	40
-	30-152536EM*	180	320	86/100	23,9	1010	1094	1700	45
-	30-152536ЛМ*	180	320	86/100	33,0	1010	1094	1600	45
-	30-152536ЛМУ*	180	320	86/100	33,4	1010	1094	1700	45
-	30-42836ЛМУ*	180	320	86	31,8	1010	1094	1700	37
NU1040MAC4	80-32140Л4*	200	310	51	15,0	430	626	1900	39
NUP1040MAC4	80-92140Л3М*	200	310	51	15,8	430	626	1900	43
NU1052MAC4	80-32152ЛМ*	260	400	65	29,2	627	1070	1800	39
NUP1052MAC4	80-92152ЛМ*	260	400	65	30,6	627	1070	1800	43

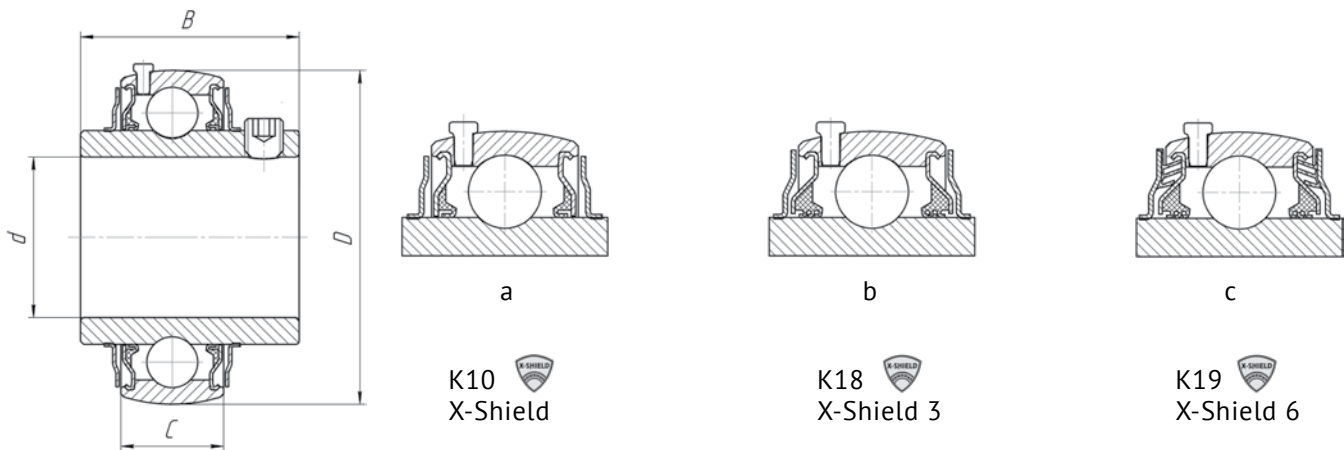
* Bearings are used in railway transport units

UCP BEARING UNITS



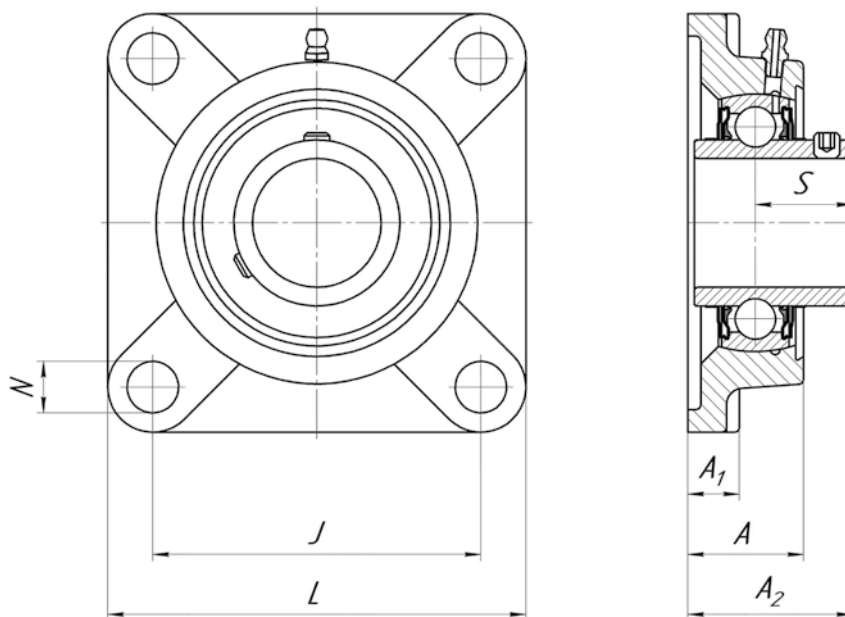
Designation of bearing unit		Designation of HARP bearing	Bearing Unit Type	Dimensions, mm							
HARP	ISO			d	D	B	C	S	L	J	
P480205	UCP205	480205AEHK10T2C17-UC205	Relubricable	25	52	34,1	16	14,3	140	105	
P480205K18		480205AEK18T2C17	Maintenance free	25	52	34,1	16	14,3	140	105	
P480205K19		480205AEK19T2C17	Maintenance free	25	52	34,1	16	14,3	140	105	
P480206	UCP206	480206EHK10T2C17-UC206	Relubricable	30	62	38,1	18	15,9	165	121	
P480206K18		480206EK18T2C17	Maintenance free	30	62	38,1	18	15,9	165	121	
P480206K19		480206EK19T2C17	Maintenance free	30	62	38,1	18	15,9	165	121	
P480207	UCP207	480207EHK10T2C17-UC207	Relubricable	35	72	42,9	20	17,5	167	127	
P480207K18		480207EK18T2C17	Maintenance free	35	72	42,9	20	17,5	167	127	
P480207K19		480207EK19T2C17	Maintenance free	35	72	42,9	20	17,5	167	127	
P480208	UCP208	480208EHK10T2C17-UC208	Relubricable	40	80	49,2	21	19	184	137	
P480208K18		480208EK18T2C17	Maintenance free	40	80	49,2	21	19	184	137	
P480208K19		480208EK19T2C17	Maintenance free	40	80	49,2	21	19	184	137	
P480209	UCP209	480209EHK10T2C17-UC209	Relubricable	45	85	49,2	21	19	190	146	
P480209K18		480209EK18T2C17	Maintenance free	45	85	49,2	21	19	190	146	
P480209K19		480209EK19T2C17	Maintenance free	45	85	49,2	21	19	190	146	
P480210	UCP210	480210EHK10T2C17-UC210	Relubricable	50	90	51,6	23	19	206	159	
P480210K18		480210EK18T2C17	Maintenance free	50	90	51,6	23	19	206	159	
P480210K19		480210EK19T2C17	Maintenance free	50	90	51,6	23	19	206	159	

UCP BEARING UNITS



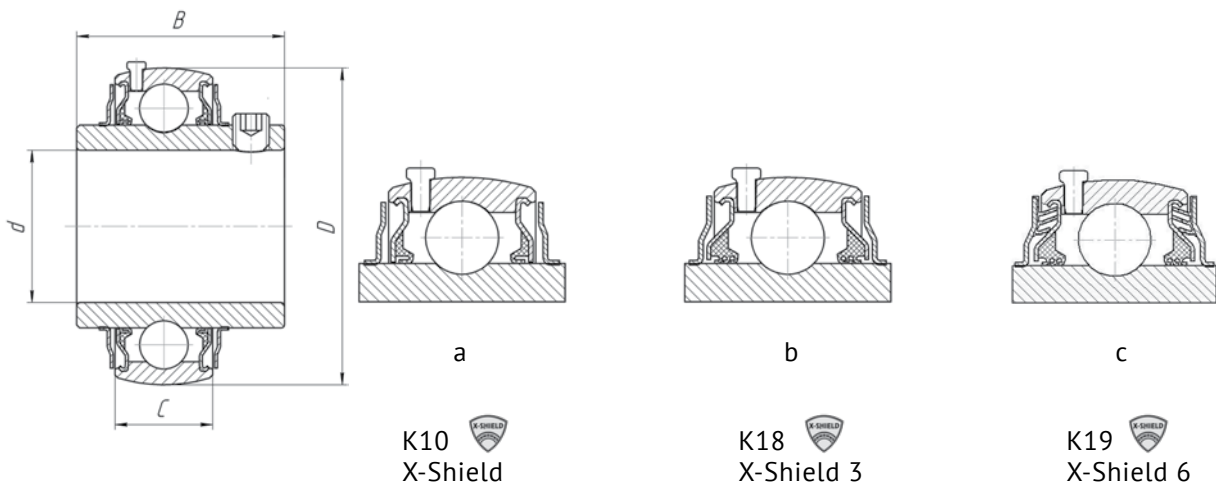
Dimensions, mm								Bearing Mass, kg	Bearing Unit Mass, kg	Loading ratings, kN		Max.rotational speed, rpm
H	H1	H2	A	A1	N	N1	m			M	Dynamic	
36,5	16	70	38	26	13	19	0,19	0,81	14,7	7,9	7000	
36,5	16	70	38	26	13	19	0,19	0,81	14,7	7,9	1400	
36,5	16	70	38	26	13	19	0,19	0,81	14,7	7,9	900	
42,9	18	83	48	30	17	21	0,31	1,1	19,5	11,3	6300	
42,9	18	83	48	30	17	21	0,31	1,1	19,5	11,3	1200	
42,9	18	83	48	30	17	21	0,31	1,1	19,5	11,3	800	
47,6	19	94	48	31	17	21	0,47	1,6	25,7	15,3	5300	
47,6	19	94	48	31	17	21	0,47	1,6	25,7	15,3	1000	
47,6	19	94	48	31	17	21	0,47	1,6	25,7	15,3	700	
49,2	19	100	54	34	17	23	0,60	1,9	32,6	19,8	4800	
49,2	19	100	54	34	17	23	0,60	1,9	32,6	19,8	900	
49,2	19	100	54	34	17	23	0,60	1,9	32,6	19,8	600	
54	20	108	54	37	17	23	0,66	2,2	32,8	20,5	4300	
54	20	108	54	37	17	23	0,66	2,2	32,8	20,5	800	
54	20	108	54	37	17	23	0,66	2,2	32,8	20,5	550	
57,2	22	114	60	39	20	25	0,75	2,7	35,1	23,3	4000	
57,2	22	114	60	39	20	25	0,75	2,7	35,1	23,3	750	
57,2	22	114	60	39	20	25	0,75	2,7	35,1	23,3	500	

UCF BEARING UNITS



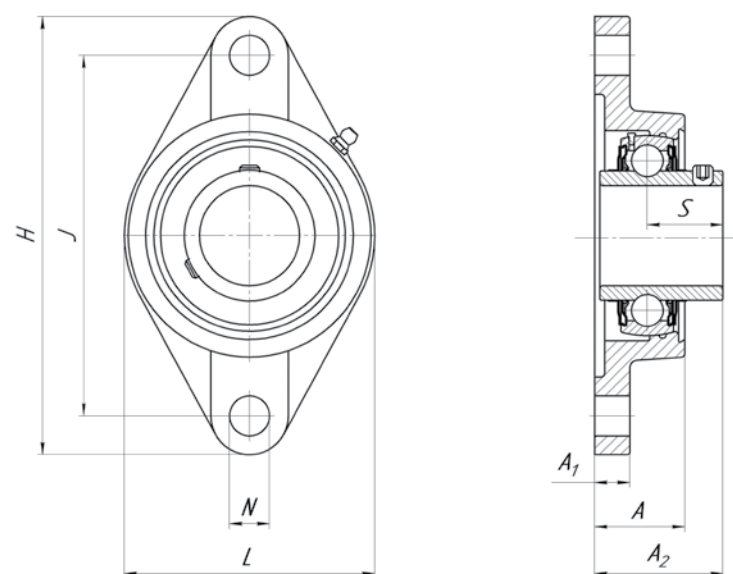
Designation of bearing unit		Designation of HARP bearing	Bearing Unit Type	Dimensions, mm						
HARP	ISO			d	D	B	C	S	L	
F480205	UCF205	480205AEHK10T2C17-UC205	Relubricable	25	52	34,1	16	14	95	
F480205K18		480205AEK18T2C17	Maintenance free	25	52	34,1	16	14	95	
F480205K19		480205AEK19T2C17	Maintenance free	25	52	34,1	16	14	95	
F480206	UCF206	480206EHK10T2C17-UC206	Relubricable	30	62	38,1	18	16	108	
F480206K18		480206EK18T2C17	Maintenance free	30	62	38,1	18	16	108	
F480206K19		480206EK19T2C17	Maintenance free	30	62	38,1	18	16	108	
F480207	UCF207	480207EHK10T2C17-UC207	Relubricable	35	72	42,9	20	17	117	
F480207K18		480207EK18T2C17	Maintenance free	35	72	42,9	20	17	117	
F480207K19		480207EK19T2C17	Maintenance free	35	72	42,9	20	17	117	
F480208	UCF208	480208EHK10T2C17-UC208	Relubricable	40	80	49,2	21	19	130	
F480208K18		480208EK18T2C17	Maintenance free	40	80	49,2	21	19	130	
F480208K19		480208EK19T2C17	Maintenance free	40	80	49,2	21	19	130	
F480209	UCF209	480209EHK10T2C17-UC209	Relubricable	45	85	49,2	21	19	137	
F480209K18		480209EK18T2C17	Maintenance free	45	85	49,2	21	19	137	
F480209K19		480209EK19T2C17	Maintenance free	45	85	49,2	21	19	137	
F480210	UCF210	480210EHK10T2C17-UC210	Relubricable	50	90	51,6	23	19	143	
F480210K18		480210EK18T2C17	Maintenance free	50	90	51,6	23	19	143	
F480210K19		480210EK19T2C17	Maintenance free	50	90	51,6	23	19	143	

UCF BEARING UNITS



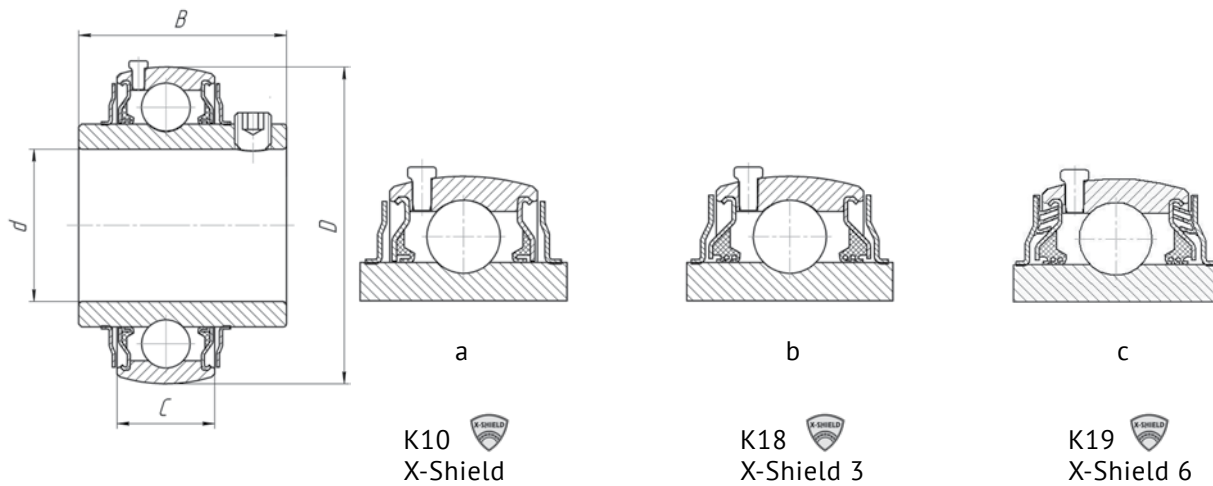
Dimensions, mm						Bearing Mass, kg	Bearing Unit Mass, kg	Loading ratings, kN		Max.rotational speed, rpm
J	N	A	A1	A2	m			M	Dynamic	
70	12	27	13	35,8	7,9	7000	14,7	7,9	7000	
70	12	27	13	35,8	7,9	1400	14,7	7,9	1400	
70	12	27	13	35,8	7,9	900	14,7	7,9	900	
83	12	31	13	40,2	11,3	6300	19,5	11,3	6300	
83	12	31	13	40,2	11,3	1200	19,5	11,3	1200	
83	12	31	13	40,2	11,3	800	19,5	11,3	800	
92	14	34	16	44,4	15,3	5300	25,7	15,3	5300	
92	14	34	16	44,4	15,3	1000	25,7	15,3	1000	
92	14	34	16	44,4	15,3	700	25,7	15,3	700	
102	16	36	16	51,2	19,8	4800	32,6	19,8	4800	
102	16	36	16	51,2	19,8	900	32,6	19,8	900	
102	16	36	16	51,2	19,8	600	32,6	19,8	600	
105	16	38	16	52,2	20,5	4300	32,8	20,5	4300	
105	16	38	16	52,2	20,5	800	32,8	20,5	800	
105	16	38	16	52,2	20,5	550	32,8	20,5	550	
111	16	40	17	54,6	23,3	4000	35,1	23,3	4000	
111	16	40	17	54,6	23,3	750	35,1	23,3	750	
111	16	40	17	54,6	23,3	500	35,1	23,3	500	

UCFL BEARING UNITS



Designation of bearing unit		Designation of HARP bearing	Bearing Unit Type	Dimensions, mm							
HARP	ISO			d	D	B	C	S	L	H	
FL480205	UCFL205	480205AEHK10T2C17-UC205	Relubricable	25	52	34.1	16	14,3	68	130	
FL480205K18		480205AEK18T2C17	Maintenance free	25	52	34.1	16	14,3	68	130	
FL480205K19		480205AEK19T2C17	Maintenance free	25	52	34.1	16	14,3	68	130	
FL480206	UCFL206	480206EHK10T2C17-UC206	Relubricable	30	62	38,1	18	15,9	80	148	
FL480206K18		480206EK18T2C17	Maintenance free	30	62	38,1	18	15,9	80	148	
FL480206K19		480206EK19T2C17	Maintenance free	30	62	38,1	18	15,9	80	148	
FL480207	UCFL207	480207EHK10T2C17-UC207	Relubricable	35	72	42,9	20	17,5	90	161	
FL480207K18		480207EK18T2C17	Maintenance free	35	72	42,9	20	17,5	90	161	
FL480207K19		480207EK19T2C17	Maintenance free	35	72	42,9	20	17,5	90	161	
FL480208	UCFL208	480208EHK10T2C17-UC208	Relubricable	40	80	49.2	21	19	100	175	
FL480208K18		480208EK18T2C17	Maintenance free	40	80	49.2	21	19	100	175	
FL480208K19		480208EK19T2C17	Maintenance free	40	80	49.2	21	19	100	175	
FL480209	UCFL209	480209EHK10T2C17-UC209	Relubricable	45	85	49,2	21	19	108	188	
FL480209K18		480209EK18T2C17	Maintenance free	45	85	49,2	21	19	108	188	
FL480209K19		480209EK19T2C17	Maintenance free	45	85	49,2	21	19	108	188	
FL480210	UCFL210	480210EHK10T2C17-UC210	Relubricable	50	90	51,6	23	19	115	197	
FL480210K18		480210EK18T2C17	Maintenance free	50	90	51,6	23	19	115	197	
FL480210K19		480210EK19T2C17	Maintenance free	50	90	51,6	23	19	115	197	

UCFL BEARING UNITS



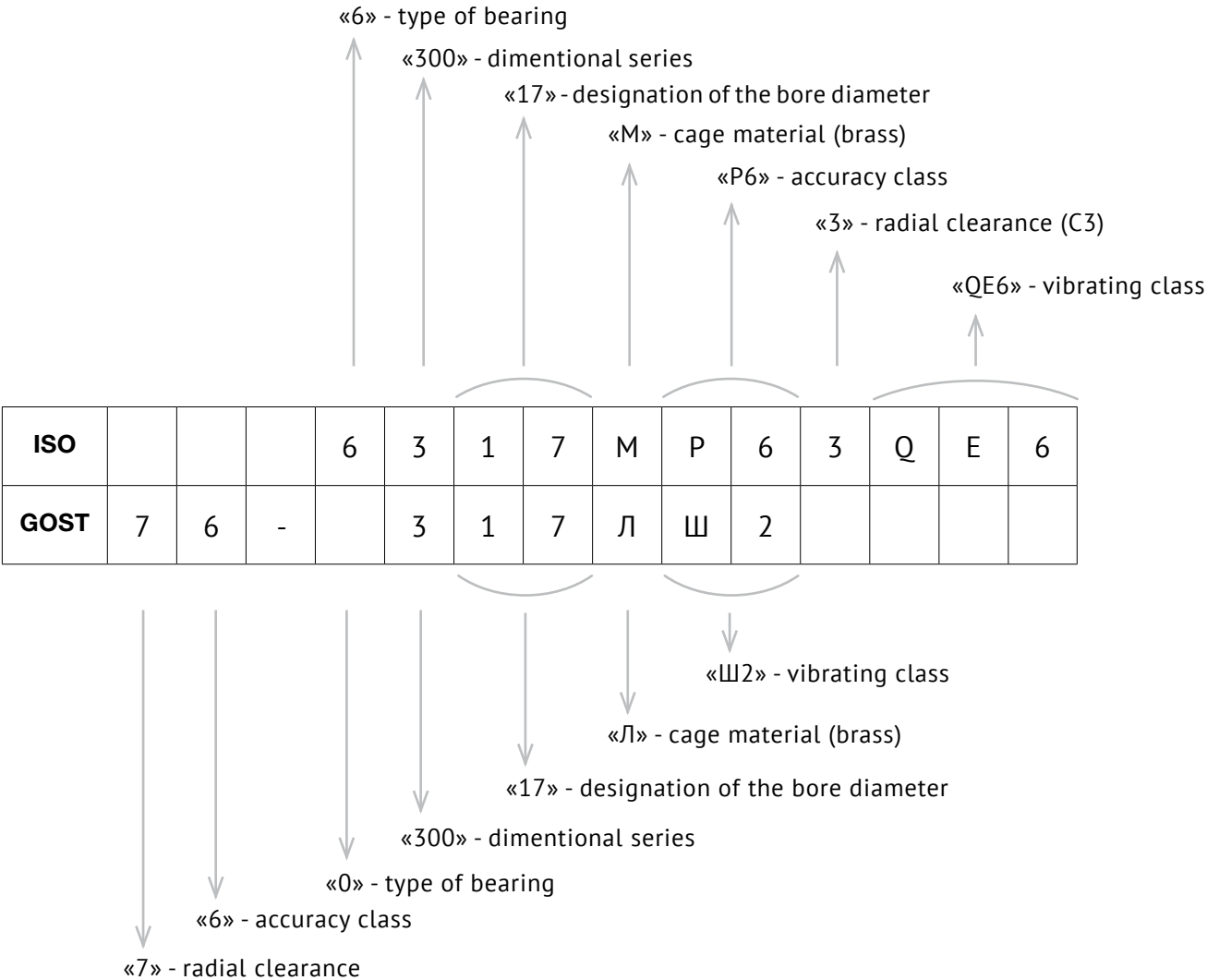
Dimensions, mm					Bearing Mass, kg	Bearing Unit Mass, kg	Loading ratings, kN		Max.rotational speed, rpm
J	N	A	A1	A2			m	M	
99	16	27	13	35,8	0,19	0,57	14,7	7,9	7000
99	16	27	13	35,8	0,19	0,57	14,7	7,9	1400
99	16	27	13	35,8	0,19	0,57	14,7	7,9	900
117	16	31	13	40,2	0,31	0,92	19,5	11,3	6300
117	16	31	13	40,2	0,31	0,92	19,5	11,3	1200
117	16	31	13	40,2	0,31	0,92	19,5	11,3	800
130	16	34	14	44,4	0,47	1,1	25,7	15,3	5300
130	16	34	14	44,4	0,47	1,1	25,7	15,3	1000
130	16	34	14	44,4	0,47	1,1	25,7	15,3	700
144	16	36	14	51,2	0,60	1,5	32,6	19,8	4800
144	16	36	14	51,2	0,60	1,5	32,6	19,8	900
144	16	36	14	51,2	0,60	1,5	32,6	19,8	600
148	19	38	16	52,2	0,66	1,9	32,8	20,5	4300
148	19	38	16	52,2	0,66	1,9	32,8	20,5	800
148	19	38	16	52,2	0,66	1,9	32,8	20,5	550
157	19	40	16	54,6	0,75	2,1	35,1	23,3	4000
157	19	40	16	54,6	0,75	2,1	35,1	23,3	750
157	19	40	16	54,6	0,75	2,1	35,1	23,3	500

HARP BEARINGS DESIGNATION

There are two variants of HARP products designation in the catalogue – according to the international standards ISO (DIN) and GOST. Designation structure is given in the example:

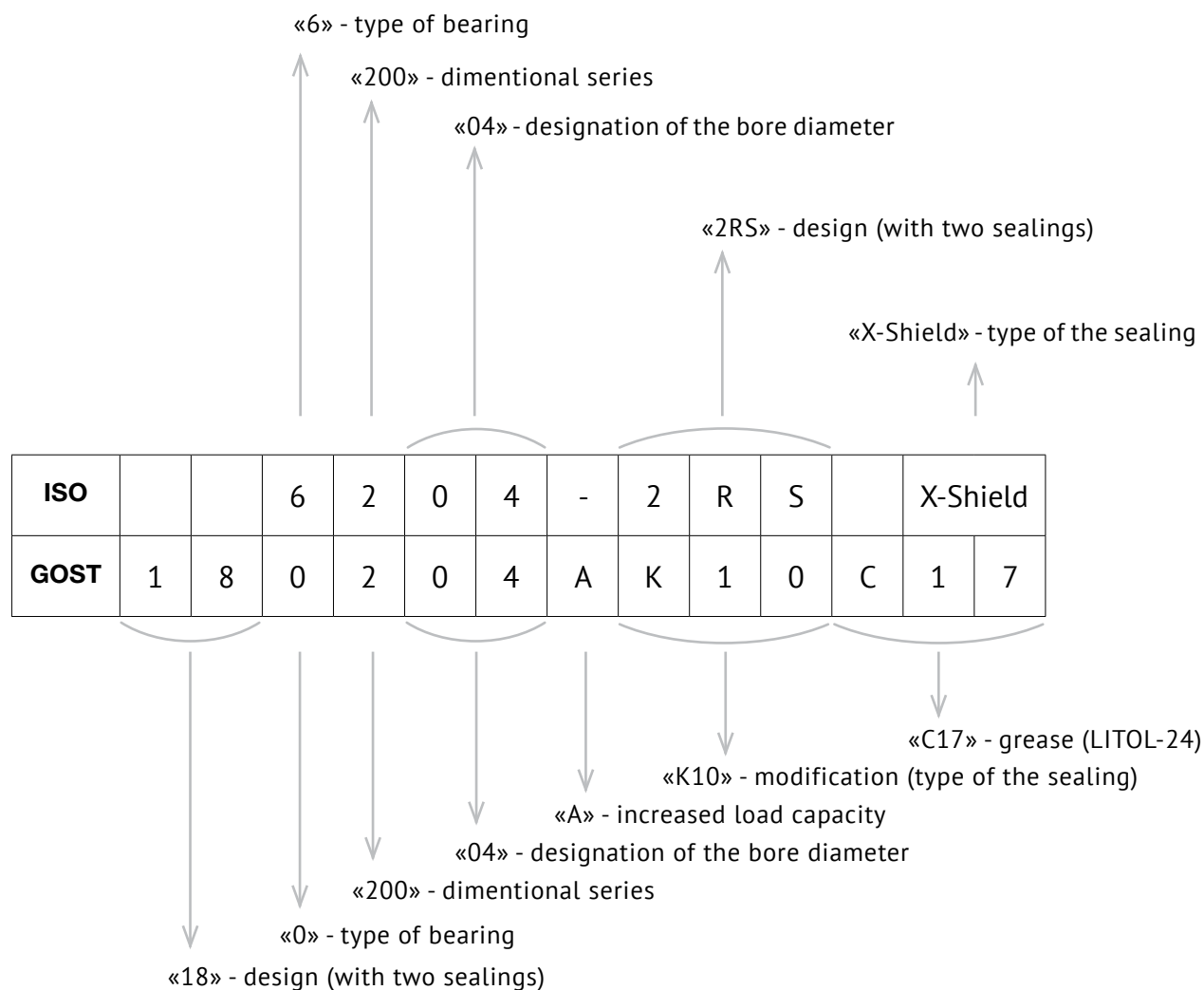
1. Single-row ball bearing with inner diameter 65 mm, increased radial clearance, increased accuracy class, brass cage, vibration limits.

Designation - **6317MP63QE6** (ISO), **76-317ЛШ2** (GOST)



2. Single-row ball bearing with inner diameter 20 mm, increased load capacity, sealed, with two seals of increased tightness, filled with consistent grease LITOL-24.

Designation - 6204-2RS X-Shield (ISO), 180204AK10C17 (GOST)






Technical data and explanation of the indexes are specified on p. 48-51.

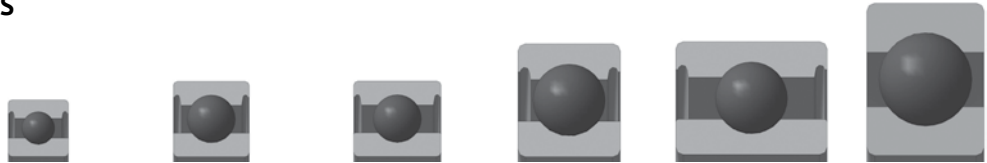
TECHNICAL DATA

Explanations of the indexes in the bearing designation are specified below. The examples of bearings designation you can find on p. 4-5.

1. BEARING TYPE

Type		ISO Index	GOST Index
Single row ball bearing		6	0
Double-row spherical ball bearing		1	1
Angular contact ball bearing		7	6
Cylindrical roller bearings		N	2

2. DIMENSION SERIES



ISO	000	200	2200	300	2300	400
GOST	100	200	500	300	600	400

3. BORE DIAMETER DESIGNATION

Bore diameter d, mm	10	12	15	17	20...495
Index	00	01	02	03	04...99*

* For bearings with bore diameter from 20 to 495 mm the: index x 5 = d

4. ACCURACY CLASS

Accuracy class		Normal	Increased	High
Index	DIN 620	P0*	P6	P5
	ISO 492, GOCT 520	0*	6	5

* Normal accuracy class P0 (0) is not specified in the designation

5. RADIAL CLEARANCE

As standard the bearings are manufactured with normal radial clearance (not specified in the designation). Bearings listed in the tables may be manufactured with reduced or increased radial clearance.

For single-row ball bearings

Radial clearance		Reduced	Normal	Increased	Increased
Index	ISO 5753	C2	Normal	C3	C4
	GOST 24810	6	Normal	7	8

For cylindrical roller bearings

Radial clearance		Normal	Increased	Increased
Index	ISO 5753	Normal	C3	C4
	GOST 24810 for bearings with non-interchangeable rings	Normal*	7*	8*
	GOST 24810 for bearings with interchangeable rings	6*	2*	3*

* Incomplete correspondence of clearances according to GOST and ISO

6. POSSIBLE DESIGNS

Basic bearings designs are specified in the table.



Index according ISO	*	N	Z	2Z	ZN	RS	2RS
Line according to GOST	*	50 000	60 000	80 000	150 000	160 000	180 000

*Basic design, not specified in the bearing designation

Other possible designs see in the tables on p. 4-41.

TECHNICAL DATA

7. MATERIALS

Rings and rolling elements of the standard bearings are made of steel 100Cr6 (ШХ15) with tempering at +150°C.









































Bearings cages are made of steel (stamped), glass-nylon composite (aramide) or brass. The indexes of various cages are specified in the table.

Cage material			Steel	Armamide	Brass
Index	Ball bearings	ISO	Standard	TV	M
		GOST	Standard	E	Л
	Roller bearings	ISO	Standard	TV	M
		GOST	K	E	Standard

The elastic part of sealed and semi-sealed bearings is made of nitrile butadiene rubber, resistant to oils and oil fuels impact.

! Materials of rings, rolling elements, cages, seals and lubricants of standard bearings are balanced for application in the temperatures range -40...+120 °C.

8. SEALS

ISO Index	GOST index	Seal design	Number of working lips	Nmax*	Protection against water and pollution	Protection against mechanical damage	Service life**
Standard (RS, 2RS)	Standard (160000, 180000)		1				
X-Shield	K10		1				
X-Shield (for series UC, EX)	K10 (for series UC, EX)		1+ shield washer				
X-Shield-2	K12		2				
X-Shield-4	K14		4				
X-Shield-3	K17		3				
X-Shield-3	K18		3+ shield washer				
X-Shield-6	K19		6+ shield washer				












* maximum acceptable rotation speed

** in harsh environment – dust, abrasive particle, water, mechanical impacts

TECHNICAL DATA

9. LUBRICANTS

LITOL-24 is a universal lubricant for HARP bearings. The characteristics of the basic lubricants applied in HARP bearings are specified in the table.

GOST index	Name	Standard/ manufacturer	Working temperature, °C	Water resistance, protection from corrosion	Antiwear characte- ristics	Application
C17	LITOL-24	Agrinol (Ukraine)	-40...+120			Universal
C9	LZ-31	ZISh (Russia)	-50...+120			For electric engineering
C23	ShRUS-4M	Agrinol (Ukraine)	-40...+120			For heavy loads
C44	Klubberplex BEM 41-132	Kluber (Germany)	-60...+150			Railway, for wide temperature ranges
L19	SRI Grease NLGI2	Chevron (France)	-30...+150			Automotive, agricultural machinery
L20	Berutox FE 18EP	Carl Bechem (Germany)	-20...+140			Automotive, agricultural machinery

10. VIBRATION LEVEL

The bearings tested on vibration-testing machine, are marked by letter Ш/Sh (GOST). HARP manufactures bearings of vibration classes Ш/Sh (basic), Ш1/Sh1, Ш2/Sh2, Ш3/Sh3.

Vibration class	Ш/Sh (basic)	Ш1/Sh1	Ш2/Sh2	Ш3/Sh3
Reducing of vibration level relatively to basic level, dB	0	-3	-6	-9



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UPEC TRADING – official distributor
Kharkov Bearing Plant (HARP)

4, Marshal Batitskiy Str.,
Kharkov, 61038, Ukraine
phone: + 38 057 711-60-10; 710-10-59
office@upec-trading.com