

NRG MOTION

PRECISION BEARINGS



**BEARING
CATALOG**

ABOUT THE BRAND

NRG MOTION

HIGH QUALITY BEARING

Brand Philosophy: To create high-quality, affordable bearing products for the mass consumer.

Key Advantages: Compliance with GOST 520-2011.

Competitive Price: Excellent value for money achieved through production optimization.

Reliable Partner: Manufacturing and quality control are ensured by the Russian company TORSNA GROUP LLC.

Quality Assurance: Every item undergoes quality control at all stages of production.

Positioning: An economical and reliable replacement for imported bearings, adapted to the requirements of the Russian market.



CERTIFICATE

ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ ПРОДУКЦИИ

Система добровольной сертификации в области промышленной и экологической безопасности "Промышленный эксперт"
Зарегистрирована Федеральным агентством по техническому регулированию и метрологии 11.04.2016 г.,
регистрационный № РОСС RU.31485.04ИДЮ0

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ 04ИДЮ116.MY.C00605

Срок действия с 03.07.2023 по 02.07.2026

№ 1160858

ОРГАН ПО СЕРТИФИКАЦИИ Орган по сертификации продукции Общество с ограниченной ответственностью «СибПромТест». Место нахождения (адрес юридического лица): 630005, РОССИЯ, Новосибирская область, город Новосибирск, улица Некрасова, дом 48, этаж 9, помещение 44. Телефон: +73832804258. Адрес электронной почты: info@sibpromtest.ru. Свидетельство о признании компетентности органа по сертификации № РОСС RU.31485.04ИДЮ0.128 от 14.12.2022 года.

ПРОДУКЦИЯ Подшипники качения, тела качения, подшипники скольжения,
торговой марки NRG
Серийный выпуск

код ОК
034-2014 (КПЕС
2008), 28.15.10.28.15.10.1
40.28.15.21.120.28.15.31

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
ГОСТ 520-2011, ГОСТ 3722-2014, ГОСТ 22696-2013, ГОСТ 25255-82, ГОСТ 6870-
81, ГОСТ 3635-78

код ТН ВЭД
8482

ИЗГОТОВИТЕЛЬ FZP Bearing factory
Юридический адрес: Unit 13-10, Signature Office, The Boulevard, Mid Valley City, Lingkaran Syed Putra,
59200 Kuala Lumpur, Malaysia

СЕРТИФИКАТ ВЫДАН ООО "ТОРСНА ГРУПП"
Юридический адрес: 119330, Москва г, ул Мосфильмовская, д. 70, кв. 787
Телефон: +7(499)702-702-3. E-mail: info@torsna.ru
ИНН: 972932785

НА ОСНОВАНИИ Протокола испытаний № 198-06-23-Д-ВТ от 29.06.2023 года, выданного
Испытательной лабораторией "Вольтекс" Общества с ограниченной ответственностью "ПрофНадзор"
(Свидетельство о признании компетентности РОСС RU.31485.04ИДЮ0.121)

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема сертификации: 3с



Руководитель органа

Эксперт

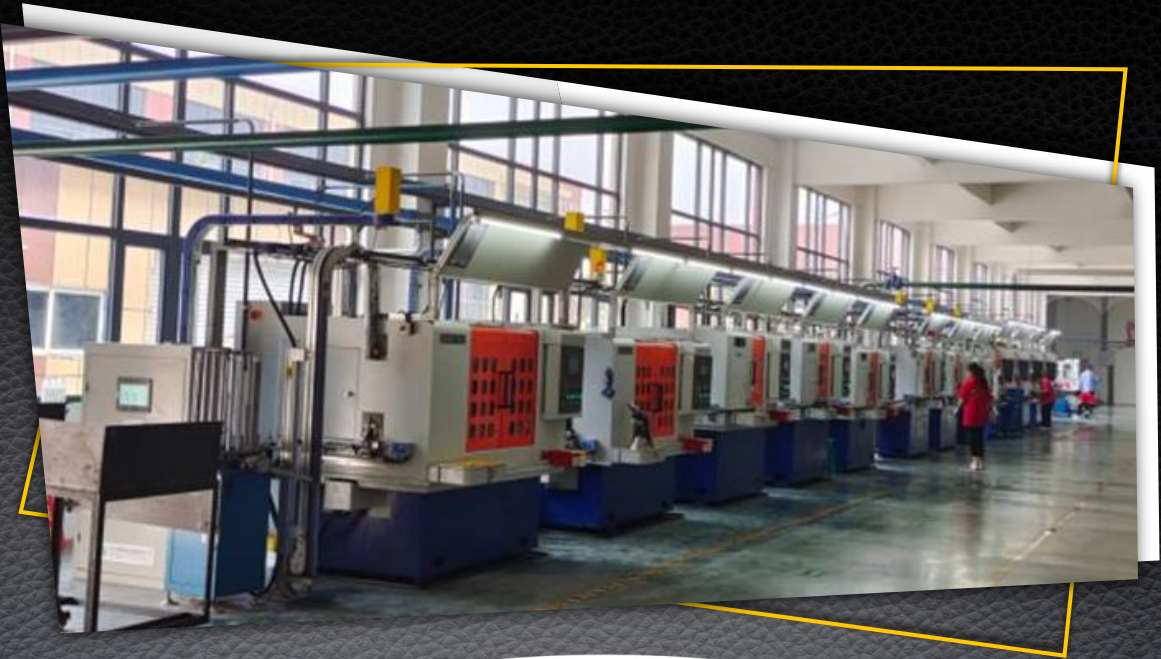
Подпись

Подпись

И.В. Михайлов
инициалы, фамилия

М.Н. Бабенков
инициалы, фамилия

PRODUCTION





Full-Cycle High-Tech Bearing Production

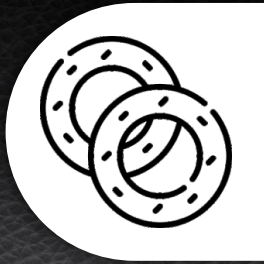
NRG Motion bearings are manufactured at a fully automated, robotic full-cycle production complex.

The implementation of advanced equipment enables the production of finished goods that meet the highest standards of quality and precision, catering to the needs of the industry of the Russian Federation.

Key Production Principles:

- **Technological Autonomy:** Minimization of operational interference and the human factor through a high degree of robotics.
- **Closed Production Cycle:** Full control over all technological stages—from raw material processing to the release of the finished product.
- **Focus on the Russian Market:** Manufacturing competitive products aimed at strengthening import independence and developing the domestic industry.

PRODUCTION PROCESS



BEARING RING PRODUCTION

Raw material: Steel tube

Stages:

Blank cutting

Heat treatment (~850°C)

Quenching (oil bath)

Tempering (~150°C)

Grinding and polishing

BEARING PRODUCTION CYCLE

Lead time: from one week to
one month



BEARING ROLLING ELEMENT PRODUCTION

Raw material: Steel bar

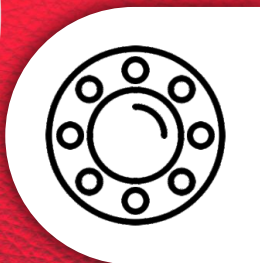
Stages:

Bar cutting

Cold heading

Heat treatment

Grinding and polishing



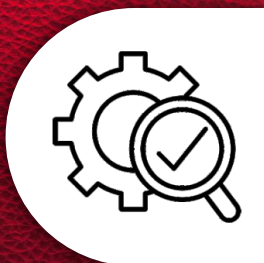
BEARING CAGE PRODUCTION

Materials and Methods:

Steel: Sheet metal stamping

Polymer: Injection molding

Brass: Machining



BEARING ASSEMBLY AND QUALITY CONTROL

Process:

1. Automated assembly
2. Even ball distribution
3. Cage installation
4. Anti-corrosion coating
5. Individual packaging

RADIAL BALL BEARINGS

RADIAL BALL BEARINGS

A universal and cost-effective solution for a wide range of applications.

Single-row deep groove ball bearings are the most widely used type of rolling bearing. Their popularity stems from their versatility, high reliability, and optimal balance between cost and performance.

Key Features and Advantages:

Universal Load Capacity: The bearing design, where the raceways of the outer and inner rings have a radius slightly larger than that of the balls, enables them to effectively handle not only radial loads but also significant bidirectional axial loads.

High-Speed Capability: Due to minimal friction losses, this bearing type is suitable for high-speed operation.

Low Noise and Vibration: Ideally suited for mechanisms with stringent requirements for quiet operation.

Various Designs: Bearings are supplied in an open version or can be shielded on one or both sides with metal shields (ZZ, 2Z) or sealed with contact rubber seals (RS, 2RS). Sealed models are typically supplied with pre-packed grease, ensuring a long service life without maintenance.

Areas of Application: Their wide range of compatible loads and speeds makes them suitable for virtually unlimited applications: from household appliances and electric motors to automotive components, industrial gearboxes, and high-precision equipment.



MINIATURE RADIAL BALL BEARINGS



MINIATURE RADIAL BALL BEARINGS

Size					Load factor		Marking	
d (mm)	D (mm)	r (mm)	B (mm)	B1 (mm)	Dynamic	Static	Open	With a shield
1	3	0.05	1	-	0.075	0.025	681	-
	3	0.1	1.5	-	0.075	0.025	MR31	-
	4	0.1	1.6	-	0.075	0.025	691	-
1.2	4	0.1	1.8	2.5	0.085	0.03	MR41X	MR41XZZ
1.5	4	0.15	1.2	2	0.085	0.03	681X	681XZZ
	5	0.1	2	2.6	0.13	0.045	691X	691XZZ
	6	0.1	2.5	3	0.25	0.10	601X	601XZZ
2	5	0.1	1.5	2.3	0.13	0.045	682	682ZZ
	5	0.1	2	2.5	0.13	0.045	MR52	MR52ZZ
	6	0.15	2.3	3	0.25	0.10	692	692ZZ
	6	0.15	2.5	2.5	0.25	0.10	MR62	MR62ZZ
	7	0.15	2.5	3	0.30	0.15	MR72	MR72ZZ
	7	0.15	2.8	3.5	0.30	0.15	602	602ZZ
2.5	6	0.15	1.8	2.6	0.16	0.06	682X	682XZZ
	7	0.15	2.5	3.5	0.30	0.15	692X	692XZZ
	8	0.2	2.5	-	0.43	0.19	MR82X	MR82XZZ
	8	0.15	2.8	4	0.43	0.19	602X	602XZZ
3	6	0.1	2	2.5	0.16	0.06	MR63	MR63ZZ
	7	0.15	2	3	0.24	0.10	683	683ZZ
	8	0.15	2.5	3	0.43	0.19	MR83	MR83ZZ
	8	0.15	3	4	0.43	0.19	693	693ZZ
	9	0.2	2.5	4	0.44	0.19	ME93	ME93ZZ
	9	0.15	3	5	0.44	0.19	603	603ZZ
	13	0.3	5	5	1.01	0.49	633	633ZZ
4	7	0.1	2	2.5	0.16	0.06	MR74	MR74ZZ
	8	0.15	2	3	0.30	0.12	MR84	MR84ZZ
	9	0.15	2.5	4	0.49	0.22	684	684ZZ
	10	0.2	3	4	0.45	0.19	MR104	MR104ZZ
	11	0.15	4	4	0.55	0.25	694	694ZZ
	12	0.2	4	4	0.74	0.35	604	604ZZ
5	8	0.1	2	2.5	0.21	0.10	MR85	MR85ZZ
	9	0.15	2.5	3	0.33	0.14	MR95	MR95ZZ
	10	0.15	3	4	0.33	0.14	MR105	MR105ZZ
	11	0.15	-	4	0.55	0.25	-	MR115ZZ
	11	0.15	3	5	0.55	0.25	685	685ZZ
	13	0.2	4	4	0.83	0.40	695	695ZZ
	14	0.2	5	5	1.02	0.49	605	605ZZ
6	10	0.15	2.5	3	0.38	0.18	MR106	MR106ZZ
	12	0.2	3	4	0.55	0.25	MR126	MR126ZZ
	13	0.15	3.5	5	0.83	0.40	686	686ZZ
	15	0.2	5	5	1.03	0.49	696	696ZZ
	17	0.3	6	6	1.53	0.75	606	606ZZ
	22	0.3	7	7	2.56	1.38	636	636ZZ
7	11	0.15	2.5	3	0.35	0.16	MR117	MR117ZZ
	13	0.2	3	4	0.42	0.21	MR137	MR137ZZ
	14	0.15	3.5	5	0.91	0.45	687	687ZZ
	17	0.3	5	5	1.24	0.64	697	697ZZ
8	12	0.15	2.5	3.5	0.42	0.21	MR128	MR128ZZ
	14	0.2	3.5	4	0.63	0.31	MR148	MR148ZZ
	16	0.2	4	5	0.97	0.50	688	688ZZ
	19	0.3	6	6	1.73	0.88	698	698ZZ
	24	0.3	8	8	2.58	1.38	628	628ZZ
	28	0.3	9	9	3.54	1.99	638	638ZZ
9	17	0.2	4	5	1.03	0.55	689	689ZZ
	20	0.3	6	6	1.92	1.01	699	699ZZ
	24	0.3	7	7	2.60	1.38	609	609ZZ
	26	0.6	8	8	3.54	1.99	629	629ZZ

MINIATURE RADIAL BALL BEARINGS

Size				Load factor		Limiting speed (rpm)		Marking	
d (mm)	D (mm)	r (mm)	B (mm)	Dynamic	Static	Bearing lubricant		Open	With a shield
						Bearing grease	Bearing oil		
10	15	0.15	3	66	34	36000	43000	61700	-
	15	0.15	4	66	34	36000	43000	-	61700ZZ
	19	0.3	7	133	56	34000	40500	613800	613800ZZ
12	18	0.2	4	72	41	31000	37000	61701	61701ZZ
	21	0.3	7	149	68	30500	36000	613801	613801ZZ
15	21	0.2	4	81	44	27000	32000	61702	61702ZZ
	24	0.3	7	162	79	26000	31500	613802	613802ZZ
17	23	0.2	4	80	50	25000	30000	61703	61703ZZ
	26	0.3	7	175	90	24000	29500	613803	613803ZZ
20	27	0.2	4	84	57	21000	25000	61704	61704ZZ
25	32	0.2	4	90	66	19000	23000	61705	61705ZZ
30	37	0.2	4	95	76	17000	20000	61706	61706ZZ
35	44	0.3	5	155	130	14000	17000	61707	61707ZZ
40	50	0.3	6	207	177	13000	16000	61708	61708ZZ
45	55	0.3	6	213	192	12000	14000	61709	61709ZZ



SINGLE-ROW RADIAL BALL BEARINGS



SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
3	10	4	0.53	0.180	61200	72000	0.0015	623
4	9	2.5	0.53	0.180	65025	76500	0.0007	618/4
	11	4	0.71	0.230	61200	72000	0.0017	619/4
	12	4	0.79	0.230	57375	67500	0.0021	604
	13	5	0.92	0.290	51255	60300	0.0031	624
	16	5	1.1	0.380	45900	54000	0.0054	634
5	11	3	0.63	0.250	57375	67500	0.0012	618/5
	13	4	0.87	0.34	51255	60300	0.0025	619/5
	16	5	1.12	0.38	45900	54000	0.0050	625
	19	6	2.30	0.94	38250	45000	0.009	635
6	13	3.5	0.87	0.34	51255	60300	0.002	618/6
	15	5	1.2	0.47	48195	56700	0.0039	619/6
	19	6	2.30	0.94	38250	45000	0.0084	626
7	14	3.5	0.94	0.4	48195	56700	0.0022	618/7
	17	5	1.45	0.55	42840	50400	0.0049	619/7
	19	6	2.30	0.94	40545	47700	0.0075	607
	22	7	3.4	1.35	34425	40500	0.013	627
8	16	4	1.3	0.56	42840	50400	0.0030	618/8
	19	6	1.9	0.73	38250	45000	0.0071	619/8
	22	7	3.4	1.35	36720	43200	0.012	608
	24	8	3.9	1.63	30600	36000	0.017	628
9	17	4	1.40	0.63	40545	47700	0.0034	618/9
	20	6	2.1	0.85	36720	43200	0.0076	619/9
	24	7	3.9	1.63	32895	38700	0.014	609
	26	8	4.65	1.93	29070	34200	0.02	629
10	15	3	66	34	36000	43000	0.005	61700
	19	5	1.40	0.58	36720	43200	0.0055	61800
	19	7	133	056	34000	40500	0.007	63800
	22	6	2.0	0.84	34425	40500	0.01	61900
	26	8	4.7	1.93	30600	36000	0.019	6000
	28	8	4.5	1.93	30600	36000	0.022	16100
	30	9	5.3	2.32	26010	30600	0.032	6200
	35	11	8.4	3.34	24480	28800	0.053	6300
12	18	4	72	41	31000	37000	0.004	61701
	21	5	1.40	0.66	32895	38700	0.0063	61801
	21	7	149	0.68	30500	36000	0.005	63801
	24	6	2.2	0.97	30600	36000	0.011	61901
	28	8	5.30	2.32	29070	34200	0.022	6001
	30	8	5	2.32	26010	30600	0.023	16101
	32	10	7.2	3.04	24480	28800	0.037	6201
	37	12	9.9	4.07	21420	25200	0.06	6301
15	21	4	81	44	27000	32000	0.006	61702
	24	5	1.53	0.79	29070	34200	0.0074	61802
	24	7	162	0.79	26000	31500	0.01	63802

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
15	28	7	4.28	2.2	26010	30600	0.016	61902
	32	8	5.7	2.8	24480	28800	0.025	16002
	32	9	5.7	2.8	24480	28800	0.03	6002
	35	11	7.9	3.68	21420	25200	0.045	6202
	42	13	11.7	5.3	18360	21600	0.082	6302
17	23	4	80	50	25000	30000	0.007	61703
	26	5	1.65	0.92	26010	30600	0.0082	61803
	26	7	175	0.90	24000	29500	0.013	63803
	30	7	4.53	2.5	24480	28800	0.018	61903
	35	8	6.24	3.19	21420	25200	0.032	16003
	35	10	6.24	3.19	21420	25200	0.039	6003
	40	9	9.37	4.66	18360	21600	0.048	98203
	40	12	9.8	4.66	18360	21600	0.065	6203
	47	14	14	6.42	16830	19800	0.12	6303
	62	17	22.5	10.6	13770	16200	0.27	6403
20	27	4	84	57	21000	25000	0.013	61704
	32	7	3.95	2.3	21420	25200	0.018	61804
	37	9	6.25	3.6	19890	23400	0.038	61904
	42	8	7.14	4	18360	21600	0.05	16004
	42	9	7.8	4.5	18360	21600	0.051	98204
	42	12	9.8	4.9	18360	21600	0.069	6004
	47	14	13.3	6.5	15300	18000	0.11	6204
	52	15	16.5	7.7	14535	17100	0.14	6304
	72	19	30	14.7	11475	13500	0.4	6404
22	50	14	13.8	7.5	14535	17100	0.12	62/22
	56	16	18.3	9.2	13770	16200	0.18	63/22
25	32	4	90	66	19000	23000	0.017	61705
	37	7	4.28	2.6	18360	21600	0.022	61805
	42	9	6.88	4.3	16830	19800	0.045	61905
	47	8	7.9	4.7	15300	18000	0.06	16005
	47	12	11.7	6.5	15300	18000	0.08	6005
	52	9	10.4	6.5	13770	16200	0.078	98205
	52	15	14.5	7.7	13770	16200	0.13	6205
	62	17	22.9	11.4	12240	14400	0.23	6305
	80	21	35	19	9945	11700	0.53	6405
28	58	16	16.5	9.4	12240	14400	0.18	62/28
	68	18	24.6	13.5	10710	12600	0.29	63/28
30	37	4	95	76	17000	20000	0.022	61706
	42	7	4.4	2.9	15300	18000	0.027	61806
	47	9	7.14	4.5	14535	17100	0.051	61906
	55	9	11.7	7.3	13005	15300	0.085	16006
	55	13	13.5	8.2	13005	15300	0.12	6006
	62	16	19.9	11	11475	13500	0.20	6206
	72	19	29	15.7	9945	11700	0.35	6306
	90	23	42.8	23.2	8415	9900	0.74	6406

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
35	44	5	155	130	14000	17000	0.025	61707
	47	7	4.7	3.2	13770	16200	0.03	61807
	55	10	9.37	6.7	12240	14400	0.08	61907
	62	9	12.8	8	11475	13500	0.11	16007
	62	14	16.5	10	11475	13500	0.16	6007
	72	17	26.5	15	9945	11700	0.29	6207
	80	21	34.4	18.7	9180	10800	0.46	6307
	100	25	54.2	30.4	7650	9000	0.95	6407
40	50	6	207	177	13000	16000	0.03	61708
	52	7	4.9	3.4	12240	14400	0.034	61808
	62	12	13.5	9.8	10710	12600	0.12	61908
	68	9	13.5	9	10710	12600	0.13	16008
	68	15	17.5	11.4	10710	12600	0.19	6008
	80	18	31.9	18.7	8415	9900	0.37	6208
	90	23	41.5	23.6	8415	9900	0.63	6308
	110	27	62.5	35.8	6885	8100	1.25	6408
45	55	6	213	192	12000	14000	0.035	61709
	58	7	6.5	6	10710	12600	0.04	61809
	68	12	13.8	10.6	9945	11700	0.14	61909
	75	10	16.2	10.6	9180	10800	0.17	16009
	75	16	21.7	14.4	9180	10800	0.25	6009
	85	19	34.4	21.2	8415	9900	0.41	6209
	100	25	54.2	30.9	7268	8550	0.83	6309
	120	29	74.6	44.1	6503	7650	1.55	6409
50	65	7	6.7	6.7	9945	11700	0.052	61810
	72	12	14.4	11.6	9180	10800	0.14	61910
	80	10	16.5	11.2	8415	9900	0.18	16010
	80	16	22.5	15.7	8415	9900	0.26	6010
	90	20	36.4	22.8	7650	9000	0.46	6210
	110	27	63.7	37.3	6503	7650	1.05	6310
	130	31	85.4	51	5738	6750	1.9	6410
	55	72	9	8.86	8.7	9180	10800	0.083
80		13	16.2	13.8	8415	9900	0.19	61911
90		11	19.9	13.8	7650	9000	0.26	16011
90		18	29	20.8	7650	9000	0.39	6011
100		21	45.3	28.5	6885	8100	0.61	6211
120		29	72.7	44.1	6120	7200	1.35	6311
140		33	97.6	60.8	5355	6300	2.3	6411
60		78	10	11.7	11.2	8415	9900	0.11
	85	13	16.2	14.1	7650	9000	0.2	61912
	95	11	20.4	14.7	7268	8550	0.28	16012
	95	18	30.1	22.8	7268	8550	0.42	6012
	110	22	54.2	35.3	6120	7200	0.78	6212
	130	31	83.5	51	5355	6300	1.7	6312
	150	35	105.9	68.2	4820	5670	2.75	6412

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
65	85	10	12.2	12.5	7650	9000	0.13	61813
	90	13	17.1	15.7	7268	8550	0.22	61913
	100	11	22.1	16.3	6885	8100	0.3	16013
	100	18	31.3	24.5	6885	8100	0.44	6013
	120	23	57.4	39.7	5738	6750	0.99	6213
	140	33	95.6	58.8	5126	6030	2.1	6313
	160	37	116.7	76.5	4590	5400	3.30	6413
70	90	10	12.2	13	6885	8100	0.14	61814
	100	16	23.4	20.8	6503	7650	0.35	61914
	110	13	28.6	24.5	6120	7200	0.43	16014
	110	20	38.9	30.4	6120	7200	0.6	6014
	125	24	62.5	44.1	5355	6300	1.05	6214
	150	35	108.8	66.7	4820	5670	2.5	6314
	180	42	140.2	102	4055	4770	4.85	6414
75	95	10	12.5	-	6503	7650	0.15	61815
	105	16	23.8	19	6120	7200	0.37	61915
	110	12	28.1	26.5	6120	7200	0.38	16115
	115	13	29.6	26.5	5738	6750	0.46	16015
	115	20	40.8	32.9	5738	6750	0.64	6015
	130	25	67.7	48.3	5126	6030	1.2	6215
	160	37	116.7	75	4284	5040	3	6315
190	45	150	111.8	3825	4500	6.8	6415	
80	100	10	12.8	14.8	6120	7200	0.15	61816
	110	16	24.6	20	5738	6750	0.4	61916
	125	14	34.4	30.9	5355	6300	0.6	16016
	125	22	48.5	39.3	5355	6300	0.85	6016
	140	26	71.4	54	4590	5400	1.4	6216
	170	39	127.4	84.8	4055	4770	3.6	6316
	200	48	159.8	122.6	3672	4320	8	6416
85	110	13	19.2	20.4	5738	6750	0.27	61817
	120	18	31.3	29.5	5355	6300	0.55	61917
	130	14	35.1	32.9	5126	6030	0.63	16017
	130	22	51	42.2	5126	6030	0.89	6017
	150	28	85.4	62.8	4284	5040	1.8	6217
	180	41	137.3	94.6	3825	4500	4.25	6317
	210	52	170.6	134.3	3443	4050	9.5	6417
90	115	13	19.2	21.6	5355	6300	0.28	61818
	125	18	32.6	30.9	5126	6030	0.59	61918
	140	16	42.8	38.3	4820	5670	0.85	16018
	140	24	59.3	49.1	4820	5670	1.15	6018
	160	30	99	72.1	4055	4770	2.15	6218
	190	43	148	105.9	3672	4320	4.9	6318
	225	54	182.3	147	3290	3870	11.5	6418

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
95	120	13	19.6	22.4	5126	6030	0.3	61819
	130	18	33.2	32.9	4820	5670	0.61	61919
	145	16	43.9	40.7	4590	5400	0.89	16019
	145	24	62.5	53	4590	5400	1.2	6019
	170	32	111.8	79.9	3825	4500	2.6	6219
	200	45	155.9	115.7	3443	4050	5.65	6319
100	125	13	19.6	23.6	4820	5670	0.31	61820
	140	20	41.5	40.2	4590	5400	0.83	61920
	150	16	45.3	43.2	4284	5040	0.91	16020
	150	24	62.5	53	4284	5040	1.25	6020
	180	34	124.5	91.15	3672	4320	3.15	6220
	215	47	170.6	137.3	3290	3870	7	6320
105	130	13	20.4	19.3	4820	5670	0.32	61821
	145	20	43.4	43.2	4284	5040	0.87	61921
	160	18	53	50	4055	4770	1.2	16021
	160	26	74.6	64.2	4055	4770	1.6	6021
	190	36	137.3	102	3443	4050	3.7	6221
	225	49	178.4	150	3060	3600	8.25	6321
110	140	16	27.6	25.5	4284	5040	0.6	61822
	150	20	42.8	44.2	4284	5040	0.9	61922
	170	19	58.9	55.9	3825	4500	1.45	16022
	170	28	83.5	72.1	3825	4500	1.95	6022
	200	38	148	115.7	3290	3870	4.35	6222
	240	50	199	176.5	2907	3420	9.55	6322
120	150	16	28.6	27.6	4055	4770	0.65	61824
	165	22	54.2	55.9	3825	4500	1.2	61924
	180	19	62.5	62.9	3672	4320	1.6	16024
	180	28	86.7	78.5	3672	4320	2.05	6024
	215	40	143.1	115.7	3060	3600	5.15	6224
	260	55	203.9	182.3	2601	3060	12.5	6324
130	165	18	36.9	42.2	3672	4320	0.93	61826
	180	24	63.7	65.7	3443	4050	1.85	61926
	200	22	81.6	79.9	3290	3870	2.35	16026
	200	33	109.8	98	3290	3870	3.15	6026
	230	40	152.9	129.4	2754	3240	5.8	6226
	280	58	224.5	211.7	3443	4050	17.5	6326 M
140	175	18	38.3	45.6	3443	4050	0.99	61828
	190	24	65	70.6	4284	5040	1.7	61928 MA
	210	22	79	84.8	3060	3600	2.5	16028
	210	33	108.8	105.9	3060	3600	3.35	6028
	250	42	161.8	147	2601	3060	7.45	6228
	300	62	246	240.2	3290	3870	22	6328 M

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
150	190	20	47.9	59.8	3290	3870	1.4	61830
	210	28	86.7	91.2	4055	4770	3.05	61930 MA
	225	24	90.4	96.1	2907	3420	3.15	16030
	225	35	122.6	1226	2907	3420	4.8	6030
	270	45	170.6	162.7	2448	2880	9.4	6230
	320	65	270.5	279.4	3060	3600	26	6330 M
160	200	20	48.5	62.8	3060	3600	1.4	61832
	220	28	90.5	96.1	3825	4500	3.2	61932 MA
	240	25	97.6	105.9	2754	3240	3.7	16032
	240	38	140.2	140.2	2754	3240	5.9	6032
	240	38	140.2	140.2	3672	4320	5.9	6032 M
	290	48	182.3	182.3	2295	2700	14	6232
	340	68	270.5	279.3	2907	3420	29	6332 M
170	215	22	60.6	76.5	2754	3240	1.9	61834
	230	28	91.8	103.9	3672	4320	3.4	61934 MA
	260	28	116.7	126.5	2448	2880	5	16034
	260	42	164.7	169.6	3290	3870	7.9	6034 M
	310	52	207.8	219.7	2907	3420	17.5	6234 M
	360	72	305.8	334	2601	3060	34.5	6334 M
180	225	22	61.2	80	2601	3060	2	61836
	250	33	116.7	1312	3290	3870	5.05	61936 MA
	280	31	135.3	143	3060	3600	6.6	16036
	280	46	186.3	197	3060	3600	10.5	6036 M
	320	52	224.5	236	2754	3240	18.5	6236 M
	380	75	344	397	2448	2880	42.5	6336 M
190	240	24	74.6	96	2448	2880	2.6	61838
	260	33	114.7	133	3290	3870	5.25	61938 MA
	290	31	145.1	163	2295	2700	7.9	16038
	290	46	191.2	212	2907	3420	11	6038 M
	340	55	245	275	2601	3060	23	6238 M
	400	78	363.6	422	2295	2700	49	6338 M
200	250	24	74.6	100	2448	2880	2.7	61840
	280	38	145.1	163	2907	3420	7.4	61940 MA
	310	34	164.7	186	2142	2520	8.85	16040
	310	51	211.7	240	2754	3240	14	6040 M
	360	58	264.7	304	2448	2880	28	6240 M
220	270	24	76.5	108	2142	2520	3.8	61844
	300	38	148	177	2754	3240	11.5	61944 MA
	340	37	170.6	200	1836	2160	18.5	16044
	340	56	242.1	285	2448	2880	37	6044 M
	400	65	290.1	358	2295	2700	72.5	6244 M
	460	88	401.9	510	1989	2340		6344 M
240	300	28	105.9	147	1989	2340	4.5	61848
	320	38	155.9	196	2448	2880	8.6	61948 MA
	360	37	174.5	216	2295	2700	145	16048 MA

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
240	360	56	250	309	2295	2700	19	6048 M
	440	72	350.9	456	1989	2340	51	6248 M
	500	95	433.2	574	1836	2160	92.5	6348 M
260	320	28	108.8	160	1836	2160	4.8	61852
	360	46	207.8	265	2295	2700	14.5	61952 MA
	400	44	233.3	304	2142	2520	21.5	16052 MA
	400	65	285.2	368	2142	2520	29.5	6052 M
	480	80	382.3	520	1836	2160	65	6252 M
	540	102	496.9	696	1683	1980	115	6352 M
280	350	33	135.3	197	1683	1980	7.4	61856
	380	46	211.7	279	2142	2520	15	61956 MA
	420	44	237.2	329	1989	2340	23	16056 MA
	420	65	296	397	1989	2340	31	6056 M
	500	80	414.6	588	1683	1980	71	6256 M
300	380	38	168.6	241	1989	2340	10.5	61860 MA
	420	56	264.7	368	1836	2160	24.5	61960 MA
	460	50	280.3	397	1836	2160	32	16060 MA
	460	74	350.9	491	1836	2160	44	6060 M
	540	85	452.8	657	1530	1800	88.5	6260 M
320	400	38	168.6	250	1836	2160	11	61864 MA
	440	56	270.5	393	1836	2160	25.5	61964 MA
	480	50	275.4	397	1683	1980	34	16064 MA
	480	74	363.6	530	1683	1980	46	6064 M
340	420	38	174.5	270	1836	2160	11.5	61868MA
	460	56	275.4	417	1683	1980	26.5	61968MA
	520	57	338.2	510	1530	1800	45	16068MA
	520	82	414.6	628	1530	1800	62	6068M
360	440	38	178.4	280	1683	1980	12	61872 MA
	480	56	285.2	442	1683	1980	28	61972 MA
	540	57	344	539	1454	1710	49	16072 MA
	540	82	452.8	721	1454	1710	64.5	6072 M
380	480	46	237.2	382	1530	1800	20	61876 MA
	520	65	331.3	530	1454	1710	40	61976 MA
	560	57	369.5	608	1377	1620	51	16076 MA
	560	82	452.8	735	1377	1620	67.5	6076 M
400	500	46	242.1	397	1454	1710	20.5	61880 MA
	540	65	338.2	559	1377	1620	41.5	61980 MA
	600	90	509.7	848	1301	1530	87.5	6080 M
420	520	46	246	417	1377	1620	21.5	61884 MA
	560	65	344	589	1377	1620	43	61984 MA
	620	90	496.9	863	1224	1440	91.5	6084 M

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
440	540	31	155	285	870	1000	16.5	60888
	540	46	250	432	1377	1620	22.5	61888 MA
	600	50	305	550	870	1000	41	60988
	600	74	401.9	706	1224	1440	60.5	61988 MA
	650	94	542	946	1148	1350	105	6088 M
460	580	56	312.7	559	1224	1440	35	61892 MA
	620	72	410	765	870	1100	63	61992
	620	74	414.6	735	1224	1440	62.5	61992 MA
	680	100	570.4	1039	1148	1350	120	6092 MB
480	600	56	318.6	588	1224	1440	36.5	61896 MA
	650	78	440.1	799	1148	1350	74	61996 MA
	700	100	605.7	1117	1071	1260	125	6096 MB
500	620	37	220	445	800	950	20	608/500
	620	56	325.4	608	1148	1350	40.5	618/500 MA
	660	75	440	720	750	900	68.8	619/500X3F1
	670	78	452.8	848	1071	1260	77	619/500 MA
	720	100	593	1117	995	1170	135	60/500 N1MAS
530	650	56	325.4	645	1071	1260	39.5	618/530 MA
	710	57	410	810	690	840	60	609/530
	710	82	478.3	912	995	1170	90.5	619/530 MA
	780	112	637	1245	918	1080	185	60/530 N1MAS
560	680	37	220	460	710	860	30	608/560
	680	56	338.2	682	995	1170	42	618/560 MA
	750	85	484.2	961	918	1080	105	619/560 MA
	820	115	649.8	1441	918	1080	210	60/560 N1MAS
600	730	42	260	550	670	800	41	608/600
	730	60	356.8	750	918	1080	52	618/600 MA
	800	90	573.4	1197	842	990	125	619/600 MA
	870	118	692	1450	600	700	233	60/600/HC
630	780	48	355	765	640	760	41	608/630
	780	69	433.2	946	842	990	73	618/630 MA
	850	71	475	1050	600	710	112	609/630
	850	100	611.6	1314	842	990	160	619/630 N1MA
	920	128	802.7	1725	765	900	285	60/630 N1MAS
670	820	69	433.2	980	842	990	83.5	618/670 MA
	900	103	662.5	1470	765	900	185	619/670 MA
	980	136	886	1999	689	810	345	60/670 N1MAS
710	870	74	465.6	1078	765	900	93.5	618/710 MA
	950	78	545	1280	500	610	148	609/710
	950	106	649.8	1470	689	810	220	619/710 MA
	1030	140	936.9	2157	650	765	375	60/710 MA
750	920	78	516.5	1226	689	810	110	618/750 MA
	1000	112	745.8	1765	650	765	255	619/750 MA
	1090	150	975	2370	450	530	490	60/750

SINGLE-ROW RADIAL BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
800	980	57	390	990	430	510	100	608/800
	980	82	547.9	1343	650	765	130	618/800 MA
	1060	115	815.4	2000	612	720	275	619/800 MA
	1150	155	989.9	2500	574	675	535	60/800
850	1030	57	385	1000	450	500	75	N1MAS 608/850
	1030	82	547.9	1402	574	675	140	618/850 MA
	1120	118	815	2150	400	480	315	619/850
	1220	165	1090	2980	370	430	640	60/850
900	1090	85	605.7	1567	536	630	160	618/900 MA
	1180	122	830	2270	360	440	355	619/900
	1280	170	1080	3120	330	410	725	60/900
950	1150	90	663	1620	360	430	188	618/950F1
	1250	132	985	2850	330	410	395	619/950
	1360	180	1145	3315	310	380	850	60/950
1000	1220	71	540	1550	350	400	175	608/1000
	1220	100	624.3	1765	459	540	245	618/1000 MA
	1320	103	800	2340	330	380	405	609/1000
	1320	140	985	2880	330	380	525	619/1000
	1420	185	1320	3900	280	340	925	60/1000
1060	1280	100	713.5	2077.7	428	504	260	618/1060 MA
	1400	150	985	3030	290	330	615	619/1060
	1500	195	1320	3860	250	330	1090	60/1060
1120	1360	106	726.2	2157	405	477	315	618/1120 MA
	1460	150	1010	3070	270	330	640	619/1120
	1580	200	1430	4480	250	300	1245	60/1120
1180	1420	106	745.8	2312.9	367	432	330	618/1180 MB
	1540	160	1115	3630	210	270	765	619/1180
1250	1500	112	830	2740	210	270	390	618/1250
1280	1560	150	939	2750	220	280	606	66/1280F1
1320	1600	122	955	2830	200	260	512	618/1320F3
	1720	128	1180	4060	190	230	835	609/1320
1400	1700	132	1070	3980	190	230	620	618/1400
	1820	185	1550	5520	180	230	1260	619/1400
1500	1820	140	1685.7	5980	245	288	690	618/1500 MB
	1950	195	1680	6220	160	190	1515	619/1500
1600	1950	155	1240	4750	150	180	975	618/1600
	2060	200	1820	6880	140	170	1660	619/1600
1700	2060	160	1240	4950	130	160	1110	618/1700
	2180	212	1950	7680	120	150	1930	619/1700



SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
3	10	4	0.53	0.18	57000	0.0015	623-Z	623-ZZ
	10	4	0.53	0.18	38000	0.0015	623-RS	623-2RS
4	9	3.5	0.53	0.18	66500	0.001	-	628/4-ZZ
	9	4	0.53	0.18	66500	0.0013	-	638/4-ZZ
	11	4	0.71	0.23	59850	0.0017	-	619/4-ZZ
	12	4	0.79	0.28	57000	0.0021	604-Z	604-ZZ
	13	5	0.92	0.29	50350	0.0031	624-Z	624-ZZ
	16	5	1.09	0.38	45600	0.0054	634-Z	634-ZZ
	16	5	1.09	0.38	45600	0.0054	634-RZ	634-2RZ
	16	5	1.09	0.38	26600	0.0054	634-RS	634-2RS
5	11	4	0.63	0.25	57000	0.0014	-	628/5-ZZ
	11	5	0.63	0.25	57000	0.0016	-	638/5-ZZ
	13	4	0.87	0.34	50350	0.0025	-	619/5-ZZ
	16	5	1.12	0.38	45600	0.005	625-Z	625-ZZ
	19	6	2.3	0.94	38000	0.009	635-Z	635-ZZ
	19	6	2.3	0.94	38000	0.009	635-RZ	635-2RZ
	19	6	2.3	0.94	22800	0.009	635-RS	635-2RS
6	13	5	0.87	0.34	50350	0.0026	-	628/6-ZZ
	15	5	1.22	0.47	47500	0.0039	-	619/6-ZZ
	19	6	2.3	0.94	38000	0.0084	626-Z	626-ZZ
	19	6	2.3	0.94	22800	0.0084	626-RS	626-2RS
7	14	5	0.94	0.4	47500	0.0031	-	628/7-ZZ
	17	5	1.46	0.55	42750	0.0049	-	619/7-ZZ
	19	6	2.3	0.94	40850	0.0075	607-Z	607-ZZ
	19	6	2.3	0.94	22800	0.0075	607-RS	607-2RS
	22	7	3.39	1.35	34200	0.013	627-Z	627-ZZ
	22	7	3.39	1.35	20900	0.012	627-RS	627-2RS
8	16	5	1.31	0.56	42750	0.0036	-	628/8-ZZ
	16	5	1.31	0.56	24700	0.0036	-	628/8-2RS
	16	6	1.31	0.56	42750	0.0043	-	638/8-ZZ
	19	6	1.87	0.73	38000	0.0071	-	619/8-ZZ
	19	6	1.87	0.73	22800	0.0071	-	619/8-2RS
	22	7	3.39	1.35	36100	0.012	608-Z	608-ZZ
	22	7	3.39	1.35	20900	0.012	608-RS	608-2RS
	22	11	3.39	1.35	20900	0.016	-	630/8-2RS
	24	8	3.83	1.63	30400	0.017	628-Z	628-ZZ
	24	8	3.83	1.63	30400	0.017	628-RZ	628-2RZ
	24	8	3.83	1.63	18050	0.017	628-RS	628-2RS
	28	9	4.53	1.93	28500	0.03	638-RZ	638-2RZ
9	17	5	1.41	0.63	40850	0.0043	628/9-Z	628/9-ZZ
	17	5	1.41	0.63	22800	0.0043	-	628/9-2RS
	20	6	2.04	0.85	36100	0.0076	-	619/9-ZZ
	24	7	3.83	1.63	32300	0.014	609-Z	609-ZZ
	24	7	3.83	1.63	18050	0.014	609-RS	609-2RS

* For bearings with a single shield, the limiting speeds for open-type bearings are applicable.

SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
9	26	8	4.66	1.93	28500	0.02	629-Z	629-ZZ
	26	8	4.66	1.93	18050	0.02	629-RS	629-2RS
10	15	4	66	34	36000	0.0055	-	61700ZZ
	19	5	1.36	0.58	36100	0.0055	-	61800-ZZ
	19	5	1.36	0.58	20900	0.0055	-	61800-2RS
	19	7	133	0.56	34000	0.0055	-	63800ZZ
	22	6	2.04	0.84	34200	0.01	-	61900-ZZ
	22	6	2.04	0.84	19000	0.01	-	61900-2RS
	26	8	4.66	1.93	32300	0.019	6000-Z	6000-ZZ
	26	8	4.66	1.93	18050	0.019	6000-RS	6000-2RS
	26	12	4.53	1.93	18050	0.025	-	63000-2RS
	28	8	4.53	1.93	30400	0.022	-	16100-ZZ
	30	9	5.3	2.32	26600	0.032	6200-Z	6200-ZZ
	30	9	5.3	2.32	16150	0.032	6200-RS	6200-2RS
	30	14	4.97	2.32	16150	0.04	-	62200-2RS
	35	11	8.35	3.34	24700	0.053	6300-Z	6300-ZZ
	35	11	8.35	3.34	14250	0.053	6300-RS	6300-2RS
	35	17	7.9	3.34	14250	0.06	-	62300-2RS
12	18	4	72	41	31000	0.0063	-	61701-ZZ
	21	5	1.41	0.66	34200	0.0063	-	61801-ZZ
	21	5	1.41	0.66	19000	0.0063	-	61801-2RS
	21	7	149	0.68	30500	0.0063	-	63801-ZZ
	24	6	2.21	0.97	30400	0.011	-	61901-ZZ
	24	6	2.21	0.97	18050	0.011	-	61901-2RS
	28	8	5.3	2.32	28500	0.022	6001-Z	6001-ZZ
	28	8	5.3	2.32	16150	0.022	6001-RS	6001-2RS
	28	12	4.97	2.32	16150	0.029	-	63001-2RS
	30	8	4.97	2.32	26600	0.023	-	16101-ZZ
	30	8	4.97	2.32	15200	0.023	-	16101-2RS
	32	10	7.14	3.04	24700	0.037	6201-Z	6201-ZZ
	32	10	7.14	3.04	14250	0.037	6201-RS	6201-2RS
	32	14	6.76	3.04	14250	0.045	-	62201-2RS
	37	12	9.9	4.07	20900	0.06	6301-Z	6301-ZZ
	37	12	9.9	4.07	13300	0.06	6301-RS	6301-2RS
	37	17	9.56	4.07	13300	0.07	-	62301-2RS
15	21	4	81	44	27000	0.0074	-	61702-ZZ
	24	5	1.53	0.79	28500	0.0074	-	61802-ZZ
	24	5	1.53	0.79	16150	0.0074	-	61802-2RS
	24	7	162	0.79	26000	0.016	-	613802-ZZ
	28	7	4.28	2.2	26600	0.016	-	61902-ZZ
	28	7	4.28	2.2	26600	0.016	-	61902-2RZ
	28	7	4.28	2.2	15200	0.016	-	61902-2RS
	32	8	5.74	2.8	24700	0.025	16002-Z	16002-ZZ
	32	9	5.74	2.8	24700	0.03	6002-Z	6002-ZZ
	32	9	5.74	2.8	13300	0.03	6002-RS	6002-2RS
	32	13	5.48	2.8	13300	0.039	-	63002-2RS
	35	11	7.9	3.68	20900	0.045	6202-Z	6202-ZZ

* For bearings with a single shield, the limiting speeds for open-type bearings are applicable.

SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
15	35	11	7.9	3.68	12350	0.045	6202-RS	6202-2RS
	35	14	7.65	3.68	12350	0.054	-	62202-2RS
	42	13	11.67	5.3	18050	0.082	6302-Z	6302-ZZ
	42	13	11.67	5.3	11400	0.082	6302-RS	6302-2RS
	42	17	11.18	5.3	11400	0.11	-	62302-2RS
17	23	4	80	50	25000	0.0082	-	61703-ZZ
	26	5	1.65	0.92	26600	0.0082	-	61803-ZZ
	26	5	1.65	0.92	26600	0.0082	-	61803-2RZ
	26	5	1.65	0.92	15200	0.0082	-	61803-2RS
	26	7	175	0.90	24000	0.0082	-	63803-ZZ
	30	7	4.53	2.5	24700	0.018	-	61903-ZZ
	30	7	4.53	2.5	24700	0.018	-	61903-RZ
	30	7	4.53	2.5	13300	0.018	-	61903-2RS
	35	8	6.25	3.19	20900	0.032	-	16003-ZZ
	35	10	6.25	3.19	20900	0.039	6003-Z	6003-ZZ
	35	10	6.25	3.19	12350	0.039	6003-RS	6003-2RS
	35	14	5.93	3.19	12350	0.052	-	63003-2RS
	40	12	9.76	4.66	18050	0.065	6203-Z	6203-ZZ
	40	12	9.76	4.66	11400	0.065	6203-RS	6203-2RS
	40	16	9.37	4.66	11400	0.083	-	62203-2RS
	47	14	14.02	6.42	16150	0.12	6303-Z	6303-ZZ
	47	14	14.02	6.42	10450	0.12	6303-RS	6303-2RS
	47	19	13.23	6.42	10450	0.15	-	62303-2RS
20	27	4	84	57	21000	0.018	-	61704-ZZ
	32	7	3.95	2.28	20900	0.018	-	61804-2RZ
	32	7	3.95	2.28	12350	0.018	-	61804-2RS
	37	9	6.25	3.58	19000	0.038	-	61904-2RZ
	37	9	6.25	3.58	11400	0.038	-	61904-2RS
	42	12	9.76	4.9	18050	0.069	6004-Z	6004-ZZ
	42	12	9.76	4.9	10450	0.069	6004-RS	6004-2RS
	42	16	9.18	4.9	10450	0.086	-	63004-2RS
	47	14	13.23	6.42	16150	0.11	6204-Z	6204-ZZ
	47	14	13.23	6.42	9500	0.11	6204-RS	6204-2RS
	47	18	12.45	6.42	9500	0.13	-	62204-2RS
	52	15	16.47	7.65	14250	0.14	6304-Z	6304-ZZ
	52	15	16.47	7.65	9025	0.14	6304-RS	6304-2RS
	52	21	15.59	7.65	9025	0.2	-	62304-2RS
22	50	14	13.72	7.5	8550	0.12	-	62/22-2RS
25	32	4	90	66	19000	23000	-	61705ZZ
	37	7	4.28	2.55	18050	0.022	-	61805-2RZ
	37	7	4.28	2.55	10450	0.022	-	61805-2RS
	42	9	6.88	4.22	17100	0.045	-	61905-2RZ
	42	9	6.88	4.22	9500	0.045	-	61905-2RS
	47	12	11.67	6.42	15200	0.08	6005-Z	6005-ZZ
	47	12	11.67	6.42	9025	0.08	6005-RS	6005-2RS
	47	16	10.98	6.42	9025	0.1	-	63005-2RS

* For bearings with a single shield, the limiting speeds for open-type bearings are applicable.

SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
25	52	15	14.51	7.65	13300	0.13	6205-Z	6205-ZZ
	52	15	14.51	7.65	8075	0.13	6205-RS	6205-2RS
	52	18	13.72	7.65	8075	0.15	-	62205-2RS
	62	17	22.94	11.37	12350	0.23	6305-Z	6305-ZZ
	62	17	22.94	11.37	12350	0.23	6035-RZ	6305-2RZ
	62	17	22.94	11.37	7125	0.23	6035-RS	6305-2RS
	62	24	22.05	11.37	7125	0.32	-	62305-2RS
30	37	4	95	76	17000	0.027	-	61706ZZ
	42	7	4.41	2.85	15200	0.027	-	61806-2RZ
	42	7	4.41	2.85	9025	0.027	-	61806-2RS
	47	9	7.14	4.46	14250	0.051	-	61906-2RZ
	47	9	7.14	4.46	8075	0.051	-	61906-2RS
	55	13	13.53	8.14	13300	0.12	6006-Z	6006-ZZ
	55	13	13.53	8.14	13300	0.12	6006-RZ	6006-2RZ
	55	13	13.53	8.14	7600	0.12	6006-RS	6006-2RS
	55	19	13.04	8.14	7600	0.16	-	63006-2RS
	62	16	19.9	10.98	11400	0.2	6206-Z	6206-ZZ
	62	16	19.9	10.98	11400	0.2	6206-RZ	6206-2RZ
	62	16	19.9	10.98	7125	0.2	6206-RS	6206-2RS
	62	20	19.11	10.98	7125	0.24	-	62206-2RS
	72	19	29.01	15.68	10450	0.35	6306-Z	6306-ZZ
	72	19	29.01	15.68	10450	0.35	6306-RZ	6306-2RZ
	72	19	29.01	15.68	5985	0.35	6306-RS	6306-2RS
	72	27	27.54	15.68	5985	0.48	-	62306-2RS
35	44	5	155	130	14000	0.03	-	61707ZZ
	47	7	4.66	3.14	13300	0.03	-	61807-2RZ
	47	7	4.66	3.14	7600	0.03	-	61807-2RS
	55	10	9.37	6.67	12350	0.08	-	61907-2RZ
	55	10	9.37	6.67	7125	0.08	-	61907-2RS
	62	14	16.47	10	11400	0.16	6007-Z	6007-ZZ
	62	14	16.47	10	11400	0.16	6007-RZ	6007-2RZ
	62	14	16.47	10	6650	0.16	6007-RS	6007-2RS
	62	20	15.59	10	6650	0.21	-	63007-2RS
	72	17	26.46	15	9500	0.29	6207-Z	6207-ZZ
	72	17	26.46	15	5985	0.29	6207-RS	6207-2RS
	72	23	24.99	15	5985	0.37	-	62207-2RS
	80	21	34.4	18.62	9025	0.46	6307-Z	6307-ZZ
	80	21	34.4	18.62	5700	0.46	6307-RS	6307-2RS
	80	31	32.54	18.62	5700	0.66	-	62307-2RS
40	50	6	207	177	13000	0.034	-	61708ZZ
	52	7	4.85	3.39	12350	0.034	-	61808-2RZ
	52	7	4.85	3.39	7125	0.034	-	61808-2RS
	62	12	13.53	9.8	11400	0.12	-	61908-2RZ
	62	12	13.53	9.8	6365	0.12	-	61908-2RS
	68	15	17.45	11.37	10450	0.19	6008-Z	6008-ZZ
	68	15	17.45	11.37	10450	0.19	6008-RZ	6008-2RZ
	68	15	17.45	11.37	5985	0.19	6008-RS	6008-2RS

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SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
40	68	21	16.47	11.37	5985	0.26	-	63008-2RS
	80	18	31.85	18.62	8550	0.37	6208-RZ	6208-2RZ
	80	18	31.85	18.62	8550	0.37	6208-Z	6208-ZZ
	80	18	31.85	18.62	5320	0.37	6208-RS	6208-2RS
	80	23	30.09	18.62	5320	0.44	-	62208-2RS
	90	23	41.46	23.52	8075	0.63	6308-Z	6308-ZZ
	90	23	41.46	23.52	8075	0.63	6308-RZ	6308-2RZ
	90	23	41.46	23.52	4750	0.63	6308-RS	6308-2RS
45	90	33	40.18	23.52	4750	0.89	-	62308-2RS
	55	6	213	192	12000	0.04	-	61709-ZZ
	58	7	6.5	5.98	10450	0.04	-	61809-2RZ
	58	7	6.5	5.98	6365	0.04	-	61809-2RS
	68	12	13.72	10.59	9500	0.14	-	61909-2RZ
	68	12	13.72	10.59	5700	0.14	-	61909-2RS
	75	16	21.66	14.31	9500	0.25	6009-Z	6009-ZZ
	75	16	21.66	14.31	5320	0.25	6009-RS	6009-2RS
	75	23	20.39	14.31	5320	0.34	-	63009-2RS
	85	19	34.4	21.17	8075	0.41	6209-Z	6209-ZZ
	85	19	34.4	21.17	4750	0.41	6209-RS	6209-2RS
	85	23	32.54	21.17	4750	0.48	-	62209-2RS
	100	25	54.2	30.87	7125	0.83	6309-Z	6309-ZZ
	100	25	54.2	30.87	4275	0.83	6309-RS	6309-2RS
	100	36	51.65	30.87	4275	1.15	-	62309-2RS
50	65	7	6.63	6.67	9500	0.052	-	61810-2RZ
	65	7	6.63	6.67	5700	0.052	-	61810-2RS
	72	12	14.31	11.57	9025	0.14	-	61910-2RZ
	72	12	14.31	11.57	5320	0.14	-	61910-2RS
	80	16	22.45	15.68	8550	0.26	6010-Z	6010-ZZ
	80	16	22.45	15.68	8550	0.26	6010-RZ	6010-2RZ
	80	16	22.45	15.68	4750	0.26	6010-RS	6010-2RS
	80	23	21.17	15.68	4750	0.37	-	63010-2RS
	90	20	36.36	22.74	7600	0.46	6210-Z	6210-ZZ
	90	20	36.36	22.74	7600	0.46	6210-RZ	6210-2RZ
	90	20	36.36	22.74	4560	0.46	6210-RS	6210-2RS
	90	23	34.4	22.74	4560	0.52	-	62210-2RS
	110	27	63.7	37.24	6365	1.05	6310-Z	6310-ZZ
	110	27	63.7	37.24	4085	1.05	6310-RS	6310-2RS
55	110	40	60.57	37.24	4085	1.55	-	62310-2RS
	72	9	8.86	8.63	9025	0.083	-	61811-2RZ
	72	9	8.86	8.63	5035	0.083	-	61811-2RS
	80	13	16.17	13.72	8075	0.19	-	61911-2RZ
	80	13	16.17	13.72	4750	0.19	-	61911-2RS
	90	18	29.01	20.78	7600	0.39	6011-Z	6011-ZZ
	90	18	29.01	20.78	4275	0.39	6011-RS	6011-2RS
	100	21	45.28	28.42	6650	0.61	6211-Z	6211-ZZ
	100	21	45.28	28.42	4085	0.61	6211-RS	6211-2RS
	100	25	42.73	28.42	4085	0.7	-	62211-2RS

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SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
55	120	29	72.62	44.1	5985	1.35	6311-Z	6311-ZZ
	120	29	72.62	44.1	3610	1.35	6311-RS	6311-2RS
	120	43	70.07	44.1	3610	1.95	-	62311-2RS
60	78	10	11.67	11.18	8075	0.11	-	61812-2RZ
	78	10	11.67	11.18	4560	0.11	-	61812-2RS
	85	13	16.17	14.02	7600	0.2	-	61912-2RZ
	85	13	16.17	14.02	4275	0.2	-	61912-2RS
	95	18	30.09	22.74	7125	0.42	6012-Z	6012-ZZ
	95	18	30.09	22.74	7125	0.42	6012-RZ	6012-2RZ
	95	18	30.09	22.74	4085	0.42	6012-RS	6012-2RS
	110	22	54.2	35.28	5985	0.78	6212-Z	6212-ZZ
	110	22	54.2	35.28	3800	0.78	6212-RS	6212-2RS
60	110	28	51.65	35.28	3800	0.97	-	62212-2RS
	130	31	83.5	50.96	5320	1.7	6312-Z	6312-ZZ
	130	31	83.5	50.96	3230	1.7	6312-2RS	6312-2RS
	130	46	80.27	50.96	3230	2.5	-	62312-2RS
65	85	10	12.16	12.45	7600	0.13	-	61813-2RZ
	85	10	12.16	12.45	4275	0.13	-	61813-2RS
	90	13	17.06	15.68	7125	0.22	-	61913-2RZ
	90	13	17.06	15.68	4085	0.22	-	61913-2RS
	100	18	31.27	24.5	6650	0.44	6013-Z	6013-ZZ
	100	18	31.27	24.5	3800	0.44	6013-RS	6013-2RS
	120	23	57.33	39.69	5700	0.99	6213-Z	6213-ZZ
	120	23	57.33	39.69	3420	0.99	6213-RS	6213-2RS
	120	31	54.79	39.69	3420	1.25	-	62213-2RS
	140	33	95.55	58.8	5035	2.1	6313-Z	6313-ZZ
	140	33	95.55	58.8	3040	2.1	6313-RS	6313-2RS
	140	48	90.46	58.8	3040	3	-	62313-2RS
70	90	10	12.16	12.94	7125	0.14	-	61814-2RZ
	90	10	12.16	12.94	4085	0.14	-	61814-2RS
	100	16	23.33	20.78	6650	0.35	-	61914-2RZ
	100	16	23.33	20.78	3800	0.35	-	61914-2RS
	110	20	38.91	30.38	5985	0.6	6014-Z	6014-ZZ
	110	20	38.91	30.38	3420	0.6	6014-RS	6014-2RS
	125	24	62.43	44.1	5320	1.1	6214-Z	6214-ZZ
	125	24	62.43	44.1	3230	1.1	6214-RS	6214-2RS
	125	31	59.29	44.1	3230	1.3	-	62214-2RS
	150	35	108.78	66.64	4750	2.5	6314-Z	6314-ZZ
	150	35	108.78	66.64	2850	2.5	6314-RS	6314-2RS
	150	51	101.92	66.64	2850	3.55	-	62314-2RS
75	95	10	12.45	14.02	6650	0.15	-	61815-2RZ
	95	10	12.45	14.02	3800	0.15	-	61815-2RS
	105	16	23.72	18.92	5985	0.37	-	61915-2RZ
	105	16	23.72	18.92	3420	0.37	-	61915-2RS
	115	20	40.77	32.83	5700	0.64	6015-Z	6015-ZZ
	115	20	40.77	32.83	5700	0.64	6015-RZ	6015-2RZ

* For bearings with a single shield, the limiting speeds for open-type bearings are applicable.

SINGLE-ROW RADIAL BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed*	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Single shield	Double shield
75	115	20	40.77	32.83	3230	0.64	6015-RS	6015-2RS
	130	25	67.53	48.02	5035	1.2	6215-Z	6215-ZZ
	130	25	67.53	48.02	3040	1.2	6215-RS	6215-2RS
	160	37	116.62	74.97	4275	3	6315-Z	6315-ZZ
	160	37	116.62	74.97	2660	3	6315-RS	6315-2RS
80	100	10	12.8	14.7	5985	0.15	-	61816-2RZ
	100	10	12.8	14.7	3420	0.15	-	61816-2RS
	110	16	24.6	20	5700	0.4	-	61916-2RZ
	110	16	24.6	20	3230	0.4	-	61916-2RS
	125	22	48.5	39.2	3040	0.85	6016-RS	6016-2RS
	140	26	71.4	53.9	4560	1.4	6216-Z	6216-ZZ
	125	22	48.5	39.2	5320	0.85	6016-Z	6016-ZZ
	140	26	71.4	53.9	2850	1.4	6216-RS	6216-2RS
	170	39	127.4	84.8	4085	3.6	6316-Z	6316-ZZ
	170	39	127.4	84.8	2470	3.6	6316-RS	6316-2RS
85	110	13	19.2	20.4	5700	0.27	-	61817-2RZ
	110	13	19.2	20.4	3230	0.27	-	61817-2RS
	130	22	51	42.2	5035	0.89	6017-Z	6017-ZZ
	130	22	51	42.2	2850	0.89	6017-RS	6017-2RS
	150	28	85.4	62.8	4275	1.8	6217-Z	6217-ZZ
	150	28	85.4	62.8	2660	1.8	6217-RS	6217-2RS
	180	41	137.2	94.6	3800	4.25	6317-Z	6317-ZZ
	180	41	137.2	94.6	2280	4.25	6317-RS	6317-2RS
90	115	13	19.2	21.6	5320	0.28	-	61818-2RZ
	115	13	19.2	21.6	3040	0.28	-	61818-2RS
	140	24	59.3	49	4750	1.15	6018-Z	6018-ZZ
	140	24	59.3	49	2660	1.15	6018-RS	6018-2RS
	160	30	99	72.1	4085	2.15	6218-Z	6218-ZZ
	160	30	99	72.1	2470	2.15	6218-RS	6218-2RS
	190	43	148	105.9	3610	4.9	6318-Z	6318-ZZ
	190	43	148	105.9	2280	4.9	6318-RS	6318-2RS
95	120	13	19.6	22.4	5035	0.3	-	61819-2RZ
	120	13	19.6	22.4	2850	0.3	-	61819-2RS
	130	18	33.2	32.9	2850	0.61	-	61919-2RS
	145	24	62.5	53	4560	1.2	6019-Z	6019-ZZ
	145	24	62.5	53	2660	1.2	6019-RS	6019-2RS
	170	32	111.8	79.9	3800	2.6	6219-Z	6219-ZZ
	170	32	111.8	79.9	2280	2.6	6219-RS	6219-2RS
	200	45	155.9	115.7	3420	5.65	6319-Z	6319-ZZ
	200	45	155.9	115.7	2090	5.65	6319-RS	6319-2RS

* For bearings with a single shield, the limiting speeds for open-type bearings are applicable.



SELF-ALIGNING BALL BEARINGS



SELF-ALIGNING BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
					Bearing grease	Bearing oil			
5	19	6	2,46	0,47	34425	40500	0,009	135 TN9	-
6	19	6	2,46	0,47	34425	40500	0,009	126 TN9	-
7	22	7	2,60	0,55	30600	36000	0,014	127 TN9	-
8	22	7	2,60	0,55	30600	36000	0,014	108 TN9	-
9	26	8	3,82	0,80	29070	34200	0,022	129 TN9	-
10	30	9	5,42	1,16	27540	32400	0,034	1200 TN9	-
	30	14	7,90	1,70	26010	30600	0,047	2200 TN9	-
12	32	10	6,12	1,40	24480	28800	0,04	1201 TN9	-
	32	14	8,35	1,86	22950	27000	0,053	2201 TN9	-
	37	12	9,17	2,12	21420	25200	0,072	1301	-
	37	17	11,47	2,65	21420	25200	0,095	2301	-
15	35	11	7,26	1,72	21420	25200	0,049	1202 TN9	-
	35	14	8,54	2,00	19890	23400	0,06	2202 TN9	-
	42	13	10,58	2,55	18360	21600	0,094	1302 TN9	-
	42	17	11,66	2,84	18360	21600	0,12	2302	-
17	40	12	8,66	2,16	18360	21600	0,073	1203 TN9	-
	40	16	10,39	2,50	18360	21600	0,088	2203 TN9	-
	47	14	12,45	3,33	15300	18000	0,12	1303 TN9	-
	47	19	14,31	3,48	16830	19800	0,16	2303	-
20	47	14	12,45	3,33	15300	18000	0,12	1204 TN9	1204 KTN9
	47	18	16,46	4,07	15300	18000	0,14	2204 TN9	-
	52	15	14,01	3,92	13770	16200	0,16	1304 TN9	-
	52	21	17,84	4,66	14535	17100	0,22	2304	-
25	52	15	14,01	3,92	13770	16200	0,14	1205 TN9	1205 KTN9
	52	18	16,46	4,31	13770	16200	0,16	2205 TN9	2205 KTN9
	62	17	18,62	5,29	11475	13500	0,26	1305 TN9	1305 KTN9
	62	24	26,46	6,96	12240	14400	0,34	2305	-
30	62	16	15,29	4,56	11475	13500	0,22	1206 TN9	1206 KTN9
	62	20	23,32	6,57	11475	13500	0,26	2206 TN9	2206 KTN9
	72	19	22,05	6,66	9945	11700	0,39	1306 TN9	1306 KTN9
	72	27	30,58	8,62	9945	11700	0,5	2306	2306 K
35	72	17	18,62	5,88	9945	11700	0,32	1207 TN9	1207 KTN9
	72	23	30,09	8,62	9180	10800	0,4	2207 TN9	2207 KTN9
	80	21	25,97	8,33	8415	9900	0,51	1307 TN9	1307 KTN9
	80	31	38,91	10,98	9180	10800	0,68	2307 TN9	2307 KTN9
40	80	18	19,50	6,81	8415	9900	0,42	1208 TN9	1208 KTN9
	80	23	31,26	9,80	8415	9900	0,51	2208 TN9	2208 KTN9
	90	23	33,12	10,98	7267,5	8550	0,68	1308 TN9	1308 KTN9
	90	33	52,92	15,68	7650	9000	0,93	2308 TN9	2308 KTN9

SELF-ALIGNING BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
					Bearing grease	Bearing oil			
45	85	19	22,44	7,64	8415	9900	0,47	1209 TN9	1209 KTN9
	85	23	31,85	10,39	7650	9000	0,55	2209 TN9	2209 KTN9
	100	25	38,22	13,13	6502,5	7650	0,96	1309 TN9	1309 KTN9
	100	36	62,43	18,91	6885	8100	1,25	2309 TN9	2309 KTN9
50	90	20	25,97	8,97	7650	9000	0,53	1210 TN9	1210 KTN9
	90	23	33,12	10,98	7267,5	8550	0,6	2210 TN9	2210 KTN9
	110	27	42,73	13,72	6120	7200	1,2	1310 TN9	1310 KTN9
	110	40	62,43	19,60	7267,5	8550	1,65	2310	2310 K
55	100	21	27,05	10,39	6885	8100	0,71	1211 TN9	1211 KTN9
	100	25	38,22	13,13	6502,5	7650	0,81	2211 TN9	2211 KTN9
	120	29	49,69	17,64	5737,5	6750	1,6	1311 TN9	1311 KTN9
	120	43	74,58	23,52	5737,5	6750	2,1	2311	2311 K
60	110	22	30,58	11,96	6502,5	7650	0,9	1212 TN9	1212 KTN9
	110	28	47,82	16,66	6120	7200	1,1	2212 TN9	2212 KTN9
	130	31	57,33	21,56	4819,5	5670	1,95	1312 TN9	1312 KTN9
	130	46	85,36	27,93	5355	6300	2,6	2312	2312 K
65	120	23	34,40	13,72	5355	6300	1,15	1213 TN9	1213 KTN9
	120	31	56,06	19,60	5355	6300	1,45	2213 TN9	2213 KTN9
	140	33	63,70	24,99	4590	5400	2,45	1313 TN9	1313 KTN9
	140	48	93,69	31,85	4819,5	5670	3,25	2313	2313 K
70	125	24	35,08	14,31	5355	6300	1,25	1214 TN9	1214 KTN9
	125	31	43,32	16,66	5125,5	6030	1,5	2214	2214 K
	150	35	72,62	26,95	4590	5400	3	1314	1314 K
	150	51	108,78	36,75	4590	5400	3,9	2314	2314 K
75	130	25	38,22	15,29	5125,5	6030	1,35	1215	1215 K
	130	31	57,33	21,56	4819,5	5670	1,6	2215 TN9	2215 KTN9
	160	37	77,71	29,40	4284	5040	3,55	1315	1315 K
	160	55	121,52	42,14	4284	5040	4,7	2315	2315 K
80	140	26	38,91	16,66	4590	5400	1,65	1216	1216 K
	140	33	63,70	24,99	4590	5400	2	2216 TN9	2216 KTN9
	170	39	86,63	32,83	4054,5	4770	4,2	1316	1316 K
	170	58	132,30	48,02	4054,5	4770	6,1	2316	2316 K
85	150	28	47,82	20,38	4284	5040	2,05	1217	1217 K
	150	36	57,33	23,13	4284	5040	2,5	2217	2217 K
	180	41	95,55	37,24	3672	4320	5	1317	1317 K
	180	60	137,20	49,98	3672	4320	7,05	2317	2317 K
90	160	30	56,06	23,13	4054,5	4770	2,5	1218	1218 K
	160	40	68,80	27,93	4054,5	4770	3,4	2218	2218 K
	190	43	114,66	43,12	3442,5	4050	5,8	1318	1318 K
	190	64	149,94	55,86	3442,5	4050	8,45	2318	2318 K

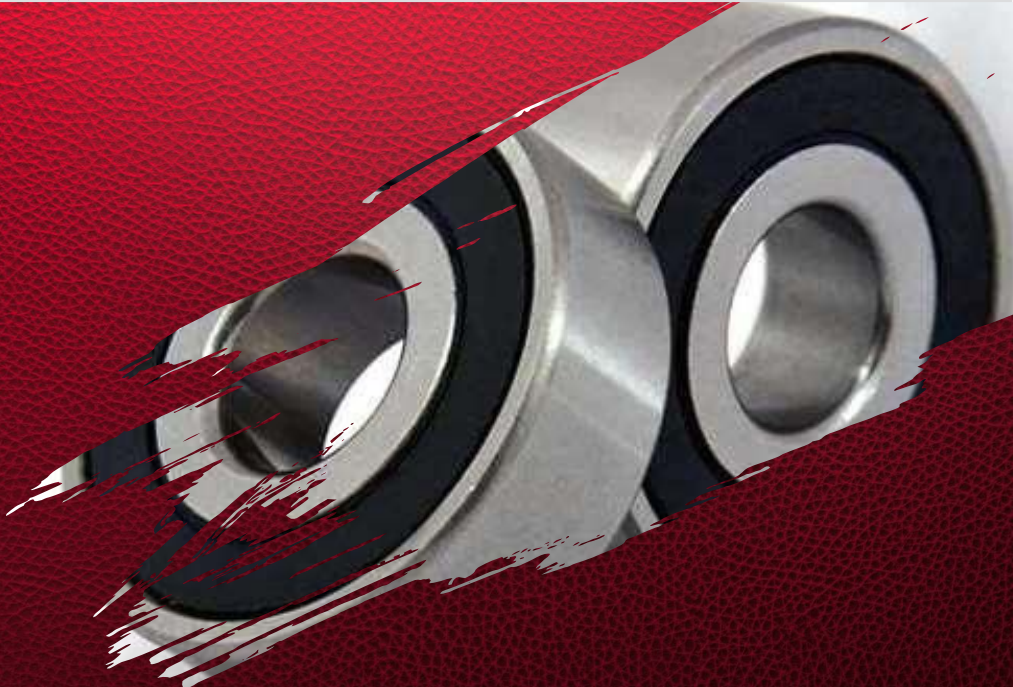
SELF-ALIGNING BALL BEARINGS

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
					Bearing grease	Bearing oil			
95	170	32	62,43	26,46	3825	4500	3,1	1219	1219 K
	170	43	81,54	33,81	3825	4500	4,1	2219	2219 K
	200	45	130,34	49,98	3289,5	3870	6,7	1319	1319 K
	200	67	161,70	62,72	3442,5	4050	9,8	2319	-
100	180	34	67,52	29,40	3672	4320	3,7	1220	1220 K
	180	46	95,55	39,69	3672	4320	5	2220	2220 K
	215	47	140,14	55,86	3060	3600	8,3	1320	1320 K
	215	73	186,20	78,40	3060	3600	12,5	2320	2320 K
110	200	38	86,63	38,22	3289,5	3870	5,15	1222	1222 K
	200	53	121,52	50,96	3289,5	3870	6,5	2222	-
	200	53	121,52	50,96	3289,5	3870	7,1	2222 M	2222 KM
	240	50	159,74	70,56	2754	3240	12	1322 M	1322 KM
120	215	42	116,62	51,94	3060	3600	6,75	1224 M	1224 KM
130	230	46	124,46	57,33	2754	3240	8,3	1226 M	-
150	225	56	56,06	23,13	2601	3060	7,5	1330	-
180	280	74	93,69	39,20	2142	2520	16	1336	-
200	280	60	59,29	28,42	1989	2340	10,7	1340	-
220	300	60	59,29	29,89	1836	2160	11	1344	-
240	320	60	59,29	31,36	1683	1980	11,3	1348	-



SELF-ALIGNING BALL BEARINGS WITH A SHIELD

Size			Load factor		Limiting speed (rpm)	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	Dynamic	Static			Cylindrical bore	Tapered bore
10	30	14	5,42	1,16	16150	0,048	2200-2RSTN9	-
12	32	14	6,12	1,40	15200	0,053	2201-2RSTN9	-
15	35	14	7,26	1,72	13300	0,058	2202-2RSTN9	-
	42	17	10,58	2,55	11400	0,11	2302-2RSTN9	-
17	40	16	8,66	2,16	11400	0,089	2203-2RSTN9	-
	47	19	12,45	3,33	10450	0,16	2303-2RSTN9	-
20	47	18	12,45	3,33	9500	0,14	2204-2RSTN9	-
	52	21	14,01	3,92	8550	0,21	2304-2RSTN9	-
25	52	18	14,01	3,92	8550	0,16	2205-2RSTN9	2205-2RSKTN9
	62	24	18,62	5,29	7125	0,34	2305-2RSTN9	-
30	62	20	15,29	4,56	7125	0,26	2206-2RSTN9	2206-2RSKTN9
	72	27	22,05	6,66	6365	0,51	2306-2RSTN9	-
35	72	23	18,62	5,88	5985	0,41	2207-2RSTN9	2207-2RSKTN9
	80	31	25,97	8,33	5320	0,7	2307-2RSTN9	-
40	80	23	19,50	6,81	5320	0,5	2208-2RSTN9	2208-2RSKTN9
	90	33	33,12	10,98	4750	0,96	2308-2RSTN9	-
45	85	23	22,44	7,64	5035	0,53	2209-2RS1TN9	2209-2RSKTN9
	100	36	38,22	13,13	4275	1,3	2309-2RSTN9	-
50	90	23	22,44	7,99	4560	0,57	2210-2RSTN9	2210-2RSKTN9
	110	40	42,73	13,72	3800	1,65	2310-2RSTN9	-
55	100	25	27,05	10,39	4085	0,79	2211-2RSTN9	2211-2RSKTN9
60	110	28	30,58	11,96	3610	1,05	2212-2RSTN9	2212-2RSKTN9
65	120	31	34,40	13,72	3420	1,4	2213-2RSTN9	2213-2RSKTN9
70	125	31	35,08	14,31	3230	1,45	2214-2RSTN9	-



SINGLE-ROW CYLINDRICAL ROLLER BEARINGS



SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
15	35	11	-	-	12	10	19890	23400	0.047	NU 202	-
	35	11	21.9	-	12	10	19890	23400	0.049	NJ 202	-
17	40	12	25	-	17	14	16830	19800	0.066	N 203	-
	40	12	25	-	17	14	16830	19800	0.07	NJ 203	-
	40	12	-	-	17	14	16830	19800	0.068	NU 203	-
	40	12	25	-	17	14	16830	19800	0.073	NUP 203	-
	40	16	25	-	23	21	16830	19800	0.095	NJ 2203	-
	40	16	-	-	23	21	16830	19800	0.092	NU 2203	-
	40	16	25	-	23	21	16830	19800	0.097	NUP 2203	-
	47	14	27.7	-	24	20	15300	18000	0.12	N 303	-
	47	14	27.7	-	24	20	15300	18000	0.12	NJ 303	-
	47	14	-	-	24	20	15300	18000	0.12	NU 303	-
20	47	14	29.7	-	25	22	14535	17100	0.11	N 204	-
	47	14	29.7	-	25	22	14535	17100	0.11	NJ 204	-
	47	14	-	-	25	22	14535	17100	0.11	NU 204	-
	47	14	29.7	-	25	22	14535	17100	0.12	NUP 204	-
	47	18	29.7	-	29	27	14535	17100	0.14	NJ 2204	-
	47	18	-	-	29	27	14535	17100	0.14	NU 2204	-
	52	15	31.2	-	35	25	13770	16200	0.15	N 304	-
	52	15	31.2	6.5	35	25	13770	16200	0.17	NJ 304	HJ 304
	52	15	31.2	6.5	35	25	13770	16200	0.17	NU 304	HJ 304
	52	15	31.2	-	35	25	13770	16200	0.16	NUP 304	-
	52	21	31.2	-	47	37	13770	16200	0.22	NJ 2304	-
	52	21	-	-	47	37	13770	16200	0.21	NU 2304	-
	52	21	31.2	-	47	37	13770	16200	0.22	NUP 2304	-
25	47	12	-	-	14	13	13770	16200	0.084	NU 1005	-
	52	15	34.7	-	28	26	12240	14400	0.13	N 205	-
	52	15	34.7	6	28	26	12240	14400	0.15	NJ 205	HJ 205
	52	15	34.7	6	28	26	12240	14400	0.14	NU 205	HJ 205
	52	15	34.7	-	28	26	12240	14400	0.14	NUP 205	-
	52	18	34.7	6.5	33	33	12240	14400	0.18	NJ 2205	HJ 2205
	52	18	34.7	6.5	33	33	12240	14400	0.17	NU 2205	HJ 2205
	52	18	34.7	-	33	33	12240	14400	0.17	NUP 2205	-
	62	17	38.1	-	46	36	11475	13500	0.24	N 305	HJ 305
	62	17	38.1	7	46	36	11475	13500	0.29	NJ 305	HJ 305
	62	17	38.1	7	46	36	11475	13500	0.28	NU 305	-
	62	17	38.1	-	46	36	11475	13500	0.25	NUP 305	-
	62	24	38.1	8	63	54	11475	13500	0.39	NJ 2305	HJ 2305
	62	24	38.1	8	63	54	11475	13500	0.38	NU 2305	HJ 2305
	62	24	38.1	-	63	54	11475	13500	0.38	NUP 2305	-
30	55	13	-	-	18	17	11475	13500	0.12	NU 1006	-
	62	16	41.2	-	43	36	10710	12600	0.2	N 206	-
	62	16	41.2	7	43	36	10710	12600	0.24	NJ 206	HJ 206
	62	16	41.2	7	43	36	10710	12600	0.23	NU 206	HJ 206
	62	16	41.2	-	43	36	10710	12600	0.22	NUP 206	-
	62	20	41.2	-	54	48	10710	12600	0.27	NJ 2206	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
30	62	20	-	-	54	48	10710	12600	0.26	NU 2206	-
	62	20	41.2	-	54	48	10710	12600	0.27	NUP 2206	-
	72	19	45	-	57	47	9180	10800	0.36	N 306	-
	72	19	45	8.5	57	47	9180	10800	0.41	NJ 306	HJ 306
	72	19	45	8.5	57	47	9180	10800	0.4	NU 306	HJ 306
	72	19	45	-	57	47	9180	10800	0.38	NUP 306	-
	72	27	45	-	81	74	9180	10800	0.54	NJ 2306	-
	72	27	-	-	81	74	9180	10800	0.53	NU 2306	-
	72	27	45	-	81	74	9180	10800	0.55	NUP 2306	-
	90	23	50.5	11.5	59	52	8415	9900	0.77	NJ 406	HJ 406
90	23	50.5	11.5	59	52	8415	9900	0.75	NU 406	HJ 406	
35	62	14	-	-	35	37	9945	11700	0.16	NU 1007	-
	72	17	48.1	-	55	47	9180	10800	0.3	N 207	-
	72	17	48.1	7	55	47	9180	10800	0.31	NJ 207	HJ 207
	72	17	48.1	7	55	47	9180	10800	0.3	NU 207	HJ 207
	72	17	48.1	-	55	47	9180	10800	0.32	NUP 207	-
	72	23	48.1	-	68	62	9180	10800	0.41	NJ 2207	-
	72	23	-	-	68	62	9180	10800	0.4	NU 2207	-
	72	23	48.1	-	68	62	9180	10800	0.42	NUP 2207	-
	80	21	51	-	74	62	8415	9900	0.48	N 307	-
	80	21	51	9.5	74	62	8415	9900	0.55	NJ 307	HJ 307
	80	21	51	9.5	74	62	8415	9900	0.54	NU 307	HJ 307
	80	21	51	-	74	62	8415	9900	0.51	NUP 307	-
	80	31	51	-	104	96	8415	9900	0.73	NJ 2307	-
	80	31	-	-	104	96	8415	9900	0.72	NU 2307	-
	80	31	51	-	104	96	8415	9900	0.75	NUP 2307	-
	100	25	59	-	75	68	7268	8550	1.05	NJ 407	-
	100	25	-	-	75	68	7268	8550	1	NU 407	-
40	68	15	-	-	25	25	13770	16200	0.22	NU 1008	-
	80	18	54	-	61	52	8415	9900	0.37	N 208	-
	80	18	54	8.5	61	52	8415	9900	0.43	NJ 208	HJ 208
	80	18	54	8.5	61	52	8415	9900	0.42	NU 208	HJ 208
	80	18	54	-	61	52	8415	9900	0.4	NUP 208	-
	80	23	54	9	80	74	8415	9900	0.55	NJ 2208	HJ 2208
	80	23	54	9	80	74	8415	9900	0.54	NU 2208	HJ 2208
	80	23	54	-	80	74	8415	9900	0.56	NUP 2208	-
	90	23	57.5	-	91	76	7268	8550	0.64	N 308	-
	90	23	57.5	11	91	76	7268	8550	0.75	NJ 308	HJ 308
	90	23	57.5	11	91	76	7268	8550	0.73	NU 308	HJ 308
	90	23	57.5	-	91	76	7268	8550	0.68	NUP 308	-
	90	33	57.5	-	126	118	7268	8550	0.96	NJ 2308	-
	90	33	-	-	126	118	7268	8550	0.94	NU 2308	-
	90	33	57.5	-	126	118	7268	8550	0.98	NUP 2308	-
	110	27	64.8	-	95	88	6503	7650	1.35	NJ 408	-
	110	27	-	-	95	88	6503	7650	1.3	NU 408	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
45	75	16	-	-	44	51	8415	9900	0.26	NU 1009	-
	85	19	59	-	68	63	7268	8550	0.43	N 209	-
	85	19	59	8.5	68	63	7268	8550	0.49	NJ 209	HJ 209
	85	19	59	8.5	68	63	7268	8550	0.48	NU 209	HJ 209
	85	19	59	-	68	63	7268	8550	0.45	NUP 209	-
	85	23	59	-	83	80	7268	8550	0.54	NJ 2209	-
	85	23	-	-	83	80	7268	8550	0.52	NU 2209	-
	85	23	59	-	83	80	7268	8550	0.55	NUP 2209	-
	100	25	64.4	-	110	98	6503	7650	0.88	N 309	-
	100	25	64.4	11.5	110	98	6503	7650	1.05	NJ 309	HJ 309
	100	25	64.4	11.5	110	98	6503	7650	1	NU 309	HJ 309
	100	25	64.4	-	110	98	6503	7650	0.95	NUP 309	-
	100	36	64.4	-	157	150	6503	7650	1.35	NJ 2309	-
	100	36	-	-	157	150	6503	7650	1.3	NU 2309	-
	100	36	64.4	-	157	150	6503	7650	1.35	NUP 2309	-
	120	29	71.8	13.5	104	100	5738	6750	1.7	NJ 409	HJ 409
120	29	71.8	13.5	104	100	5738	6750	1.65	NU 409	HJ 409	
50	80	16	-	-	46	55	7268	8550	0.35	NU 1010	-
	90	20	64	-	72	68	6885	8100	0.48	N 210	-
	90	20	64	9	72	68	6885	8100	0.5	NJ 210	HJ 210
	90	20	64	9	72	68	6885	8100	0.49	NU 210	HJ 210
	90	20	64	-	72	68	6885	8100	0.51	NUP 210	-
	90	23	64	-	88	86	6885	8100	0.59	NJ 2210	-
	90	23	-	-	88	86	6885	8100	0.56	NU 2210	-
	90	23	64	-	88	86	6885	8100	0.59	NUP 2210	-
	110	27	71.2	-	124	110	6120	7200	1.15	N 310	-
	110	27	71.2	13	124	110	6120	7200	1.15	NJ 310	HJ 310
	110	27	71.2	13	124	110	6120	7200	1.15	NU 310	HJ 310
	110	27	71.2	-	124	110	6120	7200	1.2	NUP 310	-
	110	40	71.2	-	182	182	6120	7200	1.75	NJ 2310	-
	110	40	-	-	182	182	6120	7200	1.7	NU 2310	-
	110	40	71.2	-	182	182	6120	7200	1.8	NUP 2310	-
	130	31	78.8	14.5	127	124	5355	6300	2.05	NJ 410	HJ 410
130	31	78.8	14.5	127	124	5355	6300	2	NU 410	HJ 410	
55	90	18	-	-	56	68	6503	7650	0.4	NU 1011	-
	100	25	70.8	-	112	116	6120	7200	0.82	NUP 2211	-
	100	21	70.8	-	95	93	6120	7200	0.66	N 211	-
	100	21	70.8	9.5	95	93	6120	7200	0.67	NJ 211	HJ 211
	100	21	70.8	9.5	95	93	6120	7200	0.67	NU 211	HJ 211
	100	21	70.8	-	95	93	6120	7200	0.69	NUP 211	-
	100	25	70.8	10	112	116	6120	7200	0.81	NJ 2211	HJ 2211
	100	25	70.8	10	112	116	6120	7200	0.79	NU 2211	HJ 2211
	120	29	77.5	-	153	140	5355	6300	1.45	N 311	-
	120	29	77.5	9	153	140	5355	6300	1.5	NJ 311	HJ 311
	120	29	77.5	9	153	140	5355	6300	1.45	NU 311	HJ 311
	120	29	77.5	-	153	140	5355	6300	1.55	NUP 311	-
	120	43	77.5	9	227	227	5355	6300	2.3	NJ 2311	HJ 2311

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
55	120	43	77.5	9	227	227	5355	6300	2.25	NU 2311	HJ 2311
	120	43	77.5	-	227	227	5355	6300	2.35	NUP 2311	-
	140	33	85.2	-	139	137	4820	5670	2.55	NJ 411	-
	140	33	85.2	-	139	137	4820	5670	2.5	NU 411	-
60	95	18	-	-	37	43	9945	11700	0.48	NU 1012	-
	110	22	77.5	-	106	100	5738	6750	0.81	N 212	-
	110	22	77.5	10	106	100	5738	6750	0.83	NJ 212	HJ 212
	110	22	77.5	10	106	100	5738	6750	0.81	NU 212	HJ 212
	110	22	77.5	-	106	100	5738	6750	0.86	NUP 212	-
	110	28	77.5	10	143	150	5738	6750	1.15	NJ 2212	HJ 2212
	110	28	77.5	10	143	150	5738	6750	1.1	NU 2212	HJ 2212
	110	28	77.5	-	143	150	5738	6750	1.15	NUP 2212	-
	130	31	84.3	-	170	157	5126	6030	1.8	N 312	-
	130	31	84.3	14.5	170	157	5126	6030	1.9	NJ 312	HJ 312
	130	31	84.3	14.5	170	157	5126	6030	1.8	NU 312	HJ 312
	130	31	84.3	-	170	157	5126	6030	1.95	NUP 312	-
	130	46	84.3	16	255	260	5126	6030	2.8	NJ 2312	HJ 2312
	130	46	84.3	16	255	260	5126	6030	2.75	NU 2312	HJ 2312
	130	46	84.3	-	255	260	5126	6030	2.85	NUP 2312	-
	150	35	91.8	-	165	170	4590	5400	3.1	NJ 412	-
	150	35	-	-	165	170	4590	5400	3	NU 412	-
65	100	18	-	-	61	80	5738	6750	0.45	NU 1013	-
	120	23	84.4	-	120	116	5126	6030	1.05	N 213	-
	120	23	84.4	10	120	116	5126	6030	1.07	NJ 213	HJ 213
	120	23	84.4	10	120	116	5126	6030	1.05	NU 213	HJ 213
	120	23	84.4	-	120	116	5126	6030	1.1	NUP 213	-
	120	31	84.4	10.5	167	176	5126	6030	1.45	NJ 2213	HJ 2213
	120	31	84.4	10.5	167	176	5126	6030	1.4	NU 2213	HJ 2213
	120	31	84.4	-	167	176	5126	6030	1.5	NUP 2213	-
	140	33	90.5	-	208	192	4590	5400	2.25	N 313	-
	140	33	90.5	15.5	208	192	4590	5400	2.3	NJ 313	HJ 313
	140	33	90.5	15.5	208	192	4590	5400	2.25	NU 313	HJ 313
	140	33	90.5	-	208	192	4590	5400	2.35	NUP 313	-
	140	48	90.5	18	279	284	4590	5400	3.35	NJ 2313	HJ 2313
	140	48	90.5	18	279	284	4590	5400	3.3	NU 2313	HJ 2313
	140	48	90.5	-	279	284	4590	5400	3.45	NUP 2313	-
	160	37	98.5	18	179	186	4284	5040	3.65	NJ 413	HJ 413
	160	37	98.5	18	179	186	4284	5040	3.6	NU 413	HJ 413
70	110	20	84	10	75	91	5355	6300	0.62	NU 1014	HJ 1014
	125	24	89.4	-	134	134	4820	5670	1.15	N 214	-
	125	24	89.4	11	134	134	4820	5670	1.15	NJ 214	HJ 214
	125	24	89.4	11	134	134	4820	5670	1.15	NU 214	HJ 214
	125	24	89.4	-	134	134	4820	5670	1.2	NUP 214	-
	125	31	89.4	11.5	176	189	4820	5670	1.55	NJ 2214	HJ 2214
	125	31	89.4	11.5	176	189	4820	5670	1.5	NU 2214	HJ 2214
	125	31	89.4	-	176	189	4820	5670	1.55	NUP 2214	-
150	35	97.3	-	231	223	4284	5040	2.75	N 314	-	

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
70	150	35	97.3	15.5	231	223	4284	5040	2.8	NJ 314	HJ 314
	150	35	97.3	15.5	231	223	4284	5040	2.75	NU 314	HJ 314
	150	35	97.3	-	231	223	4284	5040	2.85	NUP 314	-
	150	51	97.3	18.5	309	319	4284	5040	4.05	NJ 2314	HJ 2314
	150	51	97.3	18.5	309	319	4284	5040	4	NU 2314	HJ 2314
	150	51	97.3	-	309	319	4284	5040	4.15	NUP 2314	-
	180	42	110	20	224	235	3825	4500	5.35	NJ 414	HJ 414
	180	42	110	20	224	235	3825	4500	5.25	NU 414	HJ 414
75	115	20	-	-	57	70	7650	9000	0.74	NU 1015	-
	130	25	94.3	-	147	153	4590	5400	1.25	N 215	-
	130	25	94.3	11	147	153	4590	5400	1.3	NJ 215	HJ 215
	130	25	94.3	11	147	153	4590	5400	1.25	NU 215	HJ 215
	130	25	94.3	-	147	153	4590	5400	1.3	NUP 215	-
	130	31	94.3	-	182	204	4590	5400	1.6	NJ 2215	-
	130	31	-	-	182	204	4590	5400	1.6	NU 2215	-
	130	31	94.3	-	182	204	4590	5400	1.65	NUP 2215	-
	160	37	104	-	274	260	4055	4770	3.3	N 315	-
	160	37	104	16.5	274	260	4055	4770	3.35	NJ 315	HJ 315
	160	37	104	16.5	274	260	4055	4770	3.3	NU 315	HJ 315
	160	37	104	-	274	260	4055	4770	3.45	NUP 315	-
	160	55	104	19.5	372	392	4055	4770	5	NJ 2315	HJ 2315
	160	55	104	19.5	372	392	4055	4770	4.9	NU 2315	HJ 2315
	160	55	104	-	372	392	4055	4770	5.1	NUP 2315	-
	190	45	116	21.5	259	274	3672	4320	6.9	NJ 415	HJ 415
	190	45	116	21.5	259	274	3672	4320	6.25	NU 415	HJ 415
80	125	22	-	-	65	80	4820	5670	1	NU 1016	-
	125	22	96.2	-	97	124	7268	8550	1.1	NJ 1016	-
	140	26	101	-	157	163	4284	5040	1.5	N 216	-
	140	26	101	12.5	157	163	4284	5040	1.55	NJ 216	HJ 216
	140	26	101	12.5	157	163	4284	5040	1.5	NU 216	HJ 216
	140	26	101	12.5	157	163	4284	5040	1.6	NUP 216	-
	140	33	101	12.5	208	240	4284	5040	2.05	NJ 2216	HJ 2216
	140	33	101	12.5	208	240	4284	5040	2	NU 2216	HJ 2216
	140	33	101	-	208	240	4284	5040	2.1	NUP 2216	-
	170	39	110	-	294	284	3825	4500	3.9	N 316	-
	170	39	110	17	294	284	3825	4500	4	NJ 316	HJ 316
	170	39	110	17	294	284	3825	4500	3.95	NU 316	HJ 316
	170	39	110	-	294	284	3825	4500	4.1	NUP 316	-
	170	58	110	20	407	431	3825	4500	6	NJ 2316	Hj2316
	170	58	110	20	407	431	3825	4500	5.95	NU 2316	HJ 2316
	170	58	110	-	407	431	3825	4500	6.6	NUP 2316	-
	200	48	122	22	297	314	3443	4050	7.5	NJ 416	HJ 416
	200	48	122	22	297	314	3443	4050	8.05	NU 416	HJ 416
85	130	22	-	-	67	85	6885	8100	1.05	NU 1017	-
	150	28	107	-	186	196	4055	4770	1.9	N 217	-
	150	28	107	12.5	186	196	4055	4770	1.95	NJ 217	HJ 217
	150	28	107	12.5	186	196	4055	4770	1.9	NU 217	HJ 217

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
85	150	28	107	-	186	196	4055	4770	2	NUP 217	-
	150	36	107	-	245	274	4055	4770	2.55	NJ 2217	-
	150	36	-	-	245	274	4055	4770	2.45	NU 2217	-
	150	36	107	-	245	274	4055	4770	2.65	NUP 2217	-
	180	41	117	-	333	328	3672	4320	4.7	N 317	-
	180	41	117	18.5	333	328	3672	4320	4.8	NJ 317	HJ 317
	180	41	117	18.5	333	328	3672	4320	4.7	NU 317	HJ 317
	180	41	117	-	333	328	3672	4320	4.9	NUP 317	-
	180	60	117	22	446	480	3672	4320	7	NJ 2317	HJ 2317
	180	60	117	22	446	480	3672	4320	6.85	NU 2317	HJ 2317
	180	60	117	-	446	480	3672	4320	7	NUP 2317	-
	210	52	126	24	313	328	3290	3870	8.9	NJ 417	HJ 417
	210	52	126	24	313	328	3290	3870	9.7	NU 417	HJ 417
90	140	24	-	-	79	102	6503	7650	1.35	NU 1018	-
	160	30	114	-	204	216	3825	4500	2.35	N 218	-
	160	30	114	14	204	216	3825	4500	2.4	NJ 218	HJ 218
	160	30	114	14	204	216	3825	4500	2.35	NU 218	HJ 218
	160	30	114	-	204	216	3825	4500	2.45	NUP 218	-
	160	40	114	15	274	309	3825	4500	3.2	NJ 2218	HJ 2218
	160	40	114	15	274	309	3825	4500	3.15	NU 2218	HJ 2218
	160	40	114	-	274	309	3825	4500	3.3	NUP 2218	-
	190	43	124	-	358	353	3443	4050	5.4	N 318	-
	190	43	124	18.5	358	353	3443	4050	5.55	NJ 318	HJ 318
	190	43	124	18.5	358	353	3443	4050	5.45	NU 318	HJ 318
	190	43	124	-	358	353	3443	4050	5.65	NUP 318	-
	190	64	124	22	490	529	3443	4050	8.15	NJ 2318	HJ 2318
	190	64	124	22	490	529	3443	4050	8	NU 2318	HJ 2318
	190	64	124	-	490	529	3443	4050	8.15	NUP 2318	-
	225	54	-	-	372	407	3060	3600	10.5	NU 418	-
95	145	24	-	-	83	108	6120	7200	1.4	NU 1019	-
	170	32	120	-	250	260	3672	4320	2.85	N 219	-
	170	32	120	14	250	260	3672	4320	2.9	NJ 219	HJ 219
	170	32	120	14	250	260	3672	4320	2.85	NU 219	HJ 219
	170	32	120	-	250	260	3672	4320	3	NUP 219	-
	170	43	120	-	319	368	3672	4320	3.95	NJ 2219	-
	170	43	-	-	319	368	3672	4320	3.85	NU 2219	-
	170	43	120	-	319	368	3672	4320	4	NUP 2219	-
	200	45	132	-	382	382	3290	3870	6.25	N 319	-
	200	45	132	20.5	382	382	3290	3870	6.45	NJ 319	HJ 319
	200	45	132	20.5	382	382	3290	3870	6.25	NU 319	HJ 319
	200	45	132	-	382	382	3290	3870	6.25	NUP 319	-
	200	67	132	24.5	519	573	3290	3870	10.7	NJ 2319	HJ 2319
	200	67	132	24.5	519	573	3290	3870	9.65	NU 2319	HJ 2319
	200	67	132	-	519	573	3290	3870	9.75	NUP 2319	-
	240	55	-	-	405	446	2754	3240	13.5	NU 419	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
100	150	24	-	-	84	112	5738	6750	1.45	NU 1020	-
	180	34	127	-	279	299	3443	4050	3.45	N 220	-
	180	34	127	15	279	299	3443	4050	3.5	NJ 220	HJ 220
	180	34	127	15	279	299	3443	4050	3.45	NU 220	HJ 220
	180	34	127	-	279	299	3443	4050	3.6	NUP 220	-
	180	46	127	16	372	441	3443	4050	4.8	NJ 2220	HJ 2220
	180	46	127	16	372	441	3443	4050	4.75	NU 2220	HJ 2220
	180	46	127	-	372	441	3443	4050	4.9	NUP 2220	-
	215	47	139	-	441	431	2907	3420	7.55	N 320	-
	215	47	139	20.5	441	431	2907	3420	7.65	NJ 320	HJ 320
	215	47	139	20.5	441	431	2907	3420	7.8	NU 320	HJ 320
	215	47	139	-	441	431	2907	3420	7.85	NUP 320	-
	215	73	139	23.5	657	720	2907	3420	12.2	NJ 2320	HJ 2320
	215	73	139	23.5	657	720	2907	3420	12	NU 2320	HJ 2320
	215	73	139	-	657	720	2907	3420	12.5	NUP 2320	-
	250	58	153	27	420	466	2754	3240	14	NU 420	HJ 420
105	160	26	-	-	99	134	5738	6750	1.85	NU 1021	-
	190	36	134	-	294	309	3290	3870	3.95	N 221	-
	190	36	134	17.5	294	309	3290	3870	4.1	NJ 221	HJ 221
	190	36	134	17.5	294	309	3290	3870	4.4	NU 221	HJ 221
	190	36	134	-	294	309	3290	3870	9	NUP 221	-
	225	49	145	-	490	490	2907	3420	8.75	NJ 321	-
	225	49	-	-	490	490	2907	3420	8.60	NU 321	-
	225	49	145	-	490	490	2907	3420	19	N 321	-
	260	60	-	-	491	559	2601	3060	-	NU 421	-
110	170	28	-	-	125	163	5355	6300	2.3	NU 1022	-
	200	38	141	-	328	358	3060	3600	4.8	N 222	-
	200	38	141	17	328	358	3060	3600	4.9	NJ 222	HJ 222
	200	38	141	17	328	358	3060	3600	4.8	NU 222	HJ 222
	200	38	141	-	328	358	3060	3600	5	NUP 222	-
	200	53	141	-	431	510	3060	3600	6.85	NJ 2222	-
	200	53	-	-	431	510	3060	3600	6.7	NU 2222	-
	200	53	141	-	431	510	3060	3600	7	NUP 2222	-
	240	50	155	-	519	529	2601	3060	10.5	N 322	-
	240	50	155	22	519	529	2601	3060	11.1	NJ 322	HJ 322
	240	50	155	22	519	529	2601	3060	10.8	NU 322	HJ 322
	240	50	155	-	519	529	2601	3060	11.2	NUP 322	-
	240	80	155	26.5	764	882	2601	3060	18.9	NJ 2322	HJ 2322
	240	80	155	26.5	764	882	2601	3060	17	NU 2322	HJ 2322
	240	80	155	-	764	882	2601	3060	17	NUP 2322	-
	280	65	171	29.5	521	573	2448	2880	20.3	NJ 422	HJ 422
	280	65	171	29.5	521	573	2448	2880	20	NU 422	HJ 422

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
120	180	28	-	-	131	179	4820	5670	2.45	NU 1024	-
	215	40	153	-	382	421	2754	3240	5.75	N 224	-
	215	40	153	17	382	421	2754	3240	5.85	NJ 224	HJ 224
	215	40	153	17	382	421	2754	3240	5.75	NU 224	HJ 224
	215	40	153	-	382	421	2754	3240	6	NUP 224	-
	215	58	153	20	510	617	2754	3240	8.5	NJ 2224	HJ 2224
	215	58	153	20	510	617	2754	3240	8.3	NU 2224	HJ 2224
	215	58	153	-	510	617	2754	3240	9	NUP 2224	-
	260	55	168	-	598	608	2448	2880	13.2	N 324	-
	260	55	168	22.5	598	608	2448	2880	13.5	NJ 324	HJ 324
	260	55	168	22.5	598	608	2448	2880	13.3	NU 324	HJ 324
	260	55	168	22.5	598	608	2448	2880	15	NUP 324	-
	260	86	168	26	897	1019	3290	3870	24.3	NJ 2324	HJ 2324
	260	86	168	26	897	1019	3290	3870	24	NU 2324	HJ 2324
	260	86	168	-	897	1019	3290	3870	24.3	NUP 2324	-
	310	72	188	30.5	631	720	2142	2520	28	NU 424	HJ 424
130	200	33	-	-	162	220	4284	5040	3.8	NU 1026	-
	230	40	164	-	407	446	2601	3060	6.3	N 226	-
	230	40	164	17	407	446	2601	3060	6.6	NJ 226	HJ 226
	230	40	164	17	407	446	2601	3060	6.45	NU 226	HJ 226
	230	40	164	-	407	446	2601	3060	6.75	NUP 226	-
	230	64	164	-	598	720	2601	3060	12.2	NJ 2226	-
	230	64	164	21	598	720	2601	3060	10.5	NU 2226	HJ 2226
	230	64	164	21	598	720	2601	3060	11	NUP 2226	-
	280	58	181	-	706	735	2295	2700	18.5	N 326	-
	280	58	181	23	706	735	2295	2700	18.4	NJ 326	HJ 326
	280	58	181	23	706	735	2295	2700	16.5	NU 326	HJ 326
	280	58	181	-	706	735	2295	2700	19.6	NUP 326	-
	280	93	181	28	1039	1225	2907	3420	30.5	NJ 2326	HJ 2326
	280	93	181	28	1039	1225	2907	3420	30	NU 2326	HJ 2326
	280	93	181	-	1039	1225	2907	3420	31	NUP 2326	-
	140	210	33	-	-	175	250	4055	4770	4.05	NU 1028
250		42	179	18	441	500	2448	2880	8.75	NJ 228	HJ 228
250		42	179	18	441	500	2448	2880	8.75	NU 228	HJ 228
250		42	179	-	441	500	2448	2880	8.9	NUP 228	-
250		68	179	23	655	810	3850	4300	15.0	NJ 2228	HJ 2228
250		68	179	23	655	810	3850	4300	15.3	NU 2228	HJ 2228
250		68	179	-	655	810	3850	4300	15.6	NUP 2228	-
300		62	195	25	764	813	3290	3870	23	NJ 328	HJ 328
300		62	195	25	764	813	3290	3870	22.7	NU 328	HJ 328
300		62	195	-	764	813	3290	3870	23.5	NUP 328	-
300		102	195	31	1176	1401	2754	3240	37.5	NJ 2328	HJ 2328
300		102	195	31	1176	1401	2754	3240	37	NU 2328	HJ 2328
300		102	195	-	1176	1401	2754	3240	37.5	NUP 2328	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
150	225	35	-	-	194	284	3825	4500	4.85	NU 1030	-
	270	45	193	19.5	500	588	2142	2520	10.8	NJ 230	HJ 230
	270	45	193	19.5	500	588	2142	2520	10.6	NU 230	HJ 230
	270	45	193	-	500	588	2142	2520	11	NUP 230	-
	270	73	194	24.5	720	911	2142	2520	18.7	NJ 2230	HJ 2230
	270	73	194	24.5	720	911	2142	2520	18.5	NU 2230	HJ 2230
	320	65	209	25	882	946	2601	3060	27.7	NJ 330	HJ 330
	320	65	209	25	882	946	1989	2340	27.5	NU 330	HJ 330
	320	108	209	-	1343	1597	2601	3060	46	NJ 2330	-
	320	108	209	-	1343	1597	2601	3060	45.5	NU 2330	-
	320	108	209	-	1343	1597	2601	3060	46.5	NUP 2330	-
160	240	38	188	19	224	319	3672	4320	5.95	NU 1032	HJ 1032
	290	48	206	-	573	666	1989	2340	14.3	N 232	-
	290	48	206	20	573	666	1989	2340	14.4	NJ 232	HJ 232
	290	48	206	20	573	666	1989	2340	14.2	NU 232	HJ 232
	290	48	206	-	573	666	1989	2340	14.5	NUP 232	-
	290	80	205	24.5	911	1176	2601	3060	24.7	NJ 2232	HJ 2232
	290	80	205	24.5	911	1176	2601	3060	24.2	NU 2232	HJ 2232
	340	68	221	25	980	1058	1836	2160	32.2	NJ 332	HJ 332
	340	68	221	25	980	1058	1836	2160	32	NU 332	HJ 332
	340	114	221	-	1225	1695	2448	2880	53.5	NJ 2332	-
	340	114	-	-	1225	1695	2448	2880	53	NU 2332	-
170	260	42	201	21	270	392	3290	3870	8	NU 1034	HJ 1034
	310	52	220	20	681	799	1836	2160	18.7	NJ 234	HJ 234
	310	52	220	20	681	799	1836	2160	18.2	NU 234	HJ 234
	310	52	220	-	681	799	2448	2880	20	NUP 234	-
	310	86	220	24	1039	1401	2448	2880	30	NU 2234	HJ 2234
	360	72	236	-	933	1156	1683	1980	38.5	N 334	-
	360	72	-	-	933	1156	1683	1980	37.5	NU 334	-
	360	120	234	-	1421	1999	2295	2700	63	NJ 2334	-
	360	120	-	-	1421	1999	2295	2700	63	NU 2334	-
180	280	46	215	22.5	329	466	3060	3600	10.5	NU 1036	HJ 1036
	320	52	230	20	706	833	2448	2880	19.3	NJ 236	HJ 236
	320	52	230	20	706	833	2448	2880	19.1	NU 236	HJ 236
	320	52	230	-	706	833	2448	2880	21	NUP 236	-
	320	86	229	24	1078	1401	2448	2880	32	NJ 2236	HJ 2236
	320	86	229	24	1078	1401	2448	2880	31.5	NU 2236	HJ 2236
	380	75	-	-	1000	1264	1683	1980	45	NU 336	-
	380	126	-	-	1578	2195	2142	2520	71.5	NU 2336	-
190	290	46	225	22.5	340	490	2907	3420	11	NU 1038	HJ 1038
	340	55	244	21.5	784	946	2295	2700	24.5	NJ 238	HJ 238
	340	55	244	21.5	784	946	2295	2700	24	NU 238	HJ 238
	340	55	244	-	784	946	2295	2700	25	NUP 238	-
	340	92	-	-	1196	1568	2295	2700	39	NU 2238	-
	400	78	264	29	1117	1470	153	180	50	NU 338	HJ 338
	400	132	-	-	1793	2499	1989	2340	82.5	NU 2338	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
200	310	51	239	25.5	372	559	2295	2700	14.5	NU 1040	HJ 1040
	360	58	258	23	833	1000	2142	2520	29	NJ 240	HJ 240
	360	58	258	23	833	1000	2142	2520	28.5	NU 240	HJ 240
	360	58	258	-	833	1000	2142	2520	29.5	NUP 240	-
	360	98	-	-	1343	1764	2142	2520	46	NU 2240	-
	420	80	-	-	1205	1597	1836	2160	57.5	NU 340	-
	420	138	278	-	1940	2744	1836	2160	97	NJ 2340	-
	420	138	-	-	1940	2744	1836	2160	96.5	NU 2340	-
220	340	56	262	27	485	720	2142	2520	18.5	NU 1044	HJ 1044
	400	65	284	25	1039	1264	1836	2160	38.2	NJ 244	HJ 244
	400	65	284	25	1039	1264	1836	2160	38	NU 244	HJ 244
	400	65	284	-	1039	1264	1836	2160	38.5	NUP 244	-
	400	108	-	-	1539	2234	1836	2160	62.5	NU 2244	-
	460	88	307	-	1186	1597	1301	1530	73.5	NJ 344	-
	460	88	-	-	1186	1597	1301	1530	72.5	NU 344	-
	460	145	-	-	2332	3381	1683	1980	120	NU 2344	-
240	360	56	282	27	515	784	2000	2300	20	NU 1048	HJ 1048
	440	72	-	-	933	1343	1683	1980	51.5	NU 248	-
	440	72	313	-	933	1343	1683	1980	51.5	NJ 248	-
	440	72	313	-	933	1343	1683	1980	53.5	NUP 248	-
	440	120	313	-	1421	2313	1683	1980	85	NJ 2248	-
	440	120	-	-	1421	2313	1683	1980	84	NU 2248	-
	500	95	335	39.5	1421	1960	1530	1800	98.5	NJ 348	HJ 348
	500	95	335	39.5	1421	1960	1224	1440	94.5	NU 348	HJ 348
	500	155	-	-	2548	3577	1530	1800	155	NU 2348	-
260	400	65	309	31.5	614	946	1836	2160	29.5	NU 1052	HJ 1052
	480	80	340	33	1147	1666	1530	1800	70	NJ 252	HJ 252
	480	80	340	33	1147	1666	1530	1800	68.5	NU 252	HJ 252
	480	80	340	-	1147	1666	1530	1800	72	NUP 252	-
	480	130	340	-	1754	2940	1530	1800	112	NJ 2252	-
	480	130	-	-	1754	2940	1530	1800	110	NU 2252	-
	540	102	-	-	1901	2646	1377	1620	125	NU 352	-
280	420	65	329	31.5	647	1039	1683	1980	31.5	NU 1056	HJ 1056
	500	80	360	-	1117	1666	1454	1710	73	NJ 256	-
	500	80	-	-	1117	1666	1454	1710	71.5	NU 256	-
	500	130	350	38	2156	3185	1454	1710	115	NU 2256	HJ 2256
	580	175	-	-	2646	4214	1301	1530	230	NU 2356	-
300	460	74	356	36	841	1343	1530	1800	47	NJ 1060	HJ 1060
	460	74	356	36	841	1343	1530	1800	46.5	NU 1060	HJ 1060
	540	85	-	-	1392	2078	1377	1620	89.5	NU 260	-
	540	140	-	-	2048	3381	1377	1620	145	NU 2260	-
320	480	74	376	36	862	1401	1071	1260	49	NJ 1064	HJ 1064
	480	74	376	36	862	1401	1071	1260	48.5	NU 1064	HJ 1064
	580	92	-	-	1578	2401	1224	1440	115	NU 264	-
	580	150	-	-	3126	4900	1224	1440	190	NJ 2264	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
340	520	82	443	39.5	1058	1725	1301	1530	68	NJ 1068	HJ 1068
	520	82	443	39.5	1058	1725	1301	1530	65	NU 1068	HJ 1068
	620	165	-	-	2587	4410	1148	1350	220	NU 2268	-
360	540	82	423	39.5	1078	1793	1224	1440	67.5	NU 1072	HJ 1072
	650	170	-	-	2862	4802	1071	1260	250	NU 2272	-
380	560	82	443	39.5	1117	1891	1224	1440	73	NJ 1076	HJ 1076
	560	82	443	39.5	1117	1891	1224	1440	71	NU 1076	HJ 1076
	680	175	-	-	3881	6272	995	1170	275	NU 2276	-
400	600	90	400	43	1352	2274	1148	1350	92.5	NU 1080	HJ 1080
420	620	90	490	43	1392	2401	1071	1260	96	NU 1084	HJ 1084
440	650	94	512	45	1480	2597	995	1170	105	NU 1088	HJ 1088
460	680	100	537	48	1617	2793	918	1080	115	NU 1092	HJ 1092
	830	165	-	-	4096	6664	842	990	415	NU 1292	-
	830	212	-	-	5018	8477	842	990	530	NU 2292	-
480	700	100	557	48	1646	2940	918	1080	130	NU 1096	HJ 1096
500	720	100	577	48	1686	3038	842	990	135	NU 10/500	HJ 10/500
	920	185	-	-	5174	8330	727	855	585	NU 12/500	-
530	780	112	-	-	2244	3969	765	900	190	NU 10/530	-
	780	145	-	-	3665	7203	765	900	255	NU 20/530	-
560	680	56	-	-	781	1620	670	820	45.0	NJ 18/560	-
	820	115	648	53	2283	4165	765	900	210	NU 10/560	HJ 10/560
	820	150	-	-	3724	7497	765	900	290	NU 20/560	-
	1030	206	-	-	7066	10976	612	720	805	NU 12/560	-
600	800	90	-	-	1900	3680	500	650	130	NUP 19/600	-
	800	118	-	-	2920	6350	620	750	160	NU 29/600	-
	800	118	-	-	2920	6350	620	750	165	NUP 29/600	-
	870	118	695	55	2695	4998	689	810	245	NU 10/600	HJ 10/600
	870	200	-	-	5280	11200	500	600	410	N 30/600 K	-
	870	155	-	-	4096	7840	689	810	325	NU 20/600	-
	1090	155	-	-	5498	9604	650	765	710	NU 12/600	-
630	780	88	-	-	1570	3610	630	750	90.0	NU 28/630	-
	920	128	-	-	3342	6076	650	765	285	NU 10/630	-
	920	170	-	-	4635	9310	650	765	400	NU 20/630	-
	920	212	-	-	6440	14400	450	530	490	NU 30/630	-
	1150	230	-	-	8408	13426	536	630	1100	NU 12/630	-
670	820	69	-	-	1230	2690	550	650	84.0	NU 18/670	-
	900	103	-	-	2330	4600	530	650	195	NU 19/670	-
	980	136	-	-	3665	6664	430	500	350	NU 10/670	-
	980	180	-	-	5282	10780	430	500	480	NU 20/670	-
	980	230	-	-	6600	13800	430	500	615	NU 30/670	-
	980	230	-	-	6930	15000	430	500	605	N 30/670 K	-

SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	Snap ring
d (mm)	D (mm)	B (mm)	d1 (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant				
							Bearing grease	Bearing oil			
710	870	74	-	-	1450	3180	480	560	97.5	NU 18/710	-
	870	95	-	-	1940	4780	480	560	128	N 28/710	-
	1030	140	-	-	4586	8330	574	675	415	NU 10/710	-
	1030	185	-	-	5821	11760	536	630	540	NU 20/710	-
750	1090	150	-	-	4635	8624	513	603	490	NU 10/750	-
	1090	195	-	-	6899	14308	513	603	635	NU 20/750	-
800	1060	150	-	-	3690	8560	430	520	385	NU 29/800	-
	1150	200	-	-	6899	14308	482	567	715	NU 20/800	-
850	1030	106	-	-	2120	5610	420	480	190	NU 28/850	-
	1120	118	-	-	3050	6900	390	460	325	NU 19/850	-
	1120	118	-	-	2930	7000	390	460	326	NJ 19/850	-
	1120	155	-	-	4680	10800	350	460	435	NU 29/850	-
	1120	155	-	-	4680	10800	350	460	430	N29/850	-
900	1090	85	-	-	1980	4600	370	440	170	NU 18/900	-
	1090	112	-	-	2700	6720	370	440	245	N 28/900	-
	1180	165	-	-	5120	11600	350	420	560	NU 29/900	-
	1180	122	-	-	4050	8700	350	420	378	NU 19/900M	-
950	1250	175	-	-	5280	12100	340	400	745	NU 29/950	-
1000	1220	100	-	-	2640	6160	310	380	265	NU 18/1000	-
	1320	185	-	-	6700	17000	290	350	705	NU 29/1000	-
1060	1280	128	-	-	3690	10100	350	420	360	N 28/1060	-
	1400	195	-	-	7200	17000	290	350	875	NU 29/1060M	-
	1400	250	-	-	9000	23500	250	310	1060	NU 39/1060M	-
1120	1360	140	-	-	3910	10500	270	380	465	N 28/1120	-
	1580	345	-	-	15700	39000	250	300	2150	NU 30/1120	-
1180	1420	106	-	-	3030	7360	170	210	350	NJ 18/1180	-
	1540	206	-	-	8970	21000	180	220	1010	NU 29/1180	-
	1540	272	-	-	11200	28200	190	250	1400	N 39/1180	-
1250	1750	290	-	-	13800	31300	165	190	2320	N 20/1250	-
1320	1600	122	-	-	3800	9380	190	250	530	NU 18/1320	-
	1720	230	-	-	11400	29400	180	230	1480	NU 29/1320	-
	1720	300	-	-	13200	33700	175	210	1950	N 39/1320	-
	1850	400	-	-	21200	53400	150	285	3550	N 30/1320	-
1500	1820	140	-	-	6220	17300	195	250	773	NU 18/1500	-
1700	2060	160	-	-	6950	18500	125	155	1156	NU 18/1700	-
1900	2300	175	-	-	8150	23700	90	115	1480	N 18/1900	-

SPHERICAL ROLLER BEARINGS

Spherical Roller Bearings

Spherical roller bearings are a type of rolling-element bearing designed to withstand extreme loads and compensate for misalignment. Their key feature is a spherical outer ring raceway and barrel-shaped rollers, which provide their famous self-aligning capability.

Key Advantages:

High Load Capacity: Designed to withstand very heavy radial loads and significant bidirectional axial loads.

Self-Alignment: Ability to compensate for shaft misalignment up to 2–3°, mounting inaccuracies, and deflections, reducing stress on the assembly.

Reliability: The two rows of rollers ensure stable operation under the most severe conditions.

Low Friction: Optimized geometry and the cage provide effective lubrication and low friction losses.

Design Features:

- Outer ring with a spherical inner surface.
- Inner ring with two rows of barrel-shaped rollers.
- A cage that reliably separates and guides the rollers.

Special Versions:

Vibration-resistant versions are available for operation under conditions of shock and vibrational loads. These bearings are manufactured with tighter tolerances and increased radial clearance, increasing the assembly's service life by 1.5–2 times compared to standard models.

Areas of Application:

Ideal for heavy machinery, mining equipment, metallurgy, fans, gearboxes, and other mechanisms where high loads are combined with potential shaft misalignments.



SPHERICAL ROLLER BEARINGS



SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
20	52	18	2	48	43	13005	15300	0.28	22205/20	-
25	52	18	2	48	43	13005	15300	0.26	22205	22205 K
	62	17	-	41	41	9180	10800	0.28	21305	-
30	62	20	2	63	59	10710	12600	0.29	22206	22206 K
	72	19	-	54	60	7650	9000	0.41	21306	21306 K
35	72	23	2	85	83	9180	10800	0.45	22207	22207 K
	80	21	-	64	71	7267.5	8550	0.55	21307	21307 K
40	80	23	3	95	88	8415	9900	0.53	22208	22208 K
	90	23	3	102	106	7267.5	8550	0.75	21308	21308 K
	90	33	3	147	137	6120	7200	1.05	22308	22308 K
45	85	23	3	100	96	7650	9000	0.58	22209	22209 K
	100	25	3	123	124	6502.5	7650	0.99	21309	21309 K
	100	36	3	179	179	5355	6300	1.4	22309	22309 K
50	90	23	3	102	106	7267.5	8550	0.63	22210	22210 K
	110	27	3	153	163	5737.5	6750	1.35	21310	21310 K
	110	40	3	216	220	4819.5	5670	1.9	22310	22310 K
55	100	25	3	123	124	6502.5	7650	0.84	22211	22211 K
	120	29	3	153	163	5737.5	6750	1.7	21311	21311 K
	120	43	3	265	274	4284	5040	2.45	22311	22311 K
60	110	28	3	153	163	5737.5	6750	1.15	22212	22212 K
	130	31	3	208	235	4819.5	5670	2.1	21312	21312 K
	130	46	4.5	304	328	4054.5	4770	3.1	22312	22312 K
65	100	35	2	129	170	4819.5	5670	0.95	24013	24013 K30
	120	31	3	189	212	5355	6300	1.55	22213	22213 K
	140	33	3	231	265	4590	5400	2.55	21313	21313 K
	140	48	4.5	333	353	3825	4500	3.75	22313	22313 K
70	125	31	3	204	223	5125.5	6030	1.55	22214	22214 K
	150	35	3	279	319	4284	5040	3.1	21314	21314 K
	150	51	4.5	392	421	3442.5	4050	4.55	22314	22314 K
75	115	40	3	170	227	4054.5	4770	1.55	24015	24015 K30
	130	31	3	208	235	4819.5	5670	1.7	22215	22215 K
	160	37	3	279	319	4284	5040	3.75	21315	21315 K
	160	55	4.5	431	466	3289.5	3870	5.55	22315	22315 K
80	140	33	3	231	265	4590	5400	2.1	22216	22216 K
	170	39	3	319	368	4054.5	4770	4.45	21316	21316 K
	170	58	4.5	480	529	3060	3600	6.6	22316	22316 K
85	150	36	3	279	319	4284	5040	2.65	22217	22217 K
	180	41	3	319	368	4054.5	4770	5.2	21317	21317 K
	180	60	4.5	539	608	2907	3420	7.65	22317	22317 K
90	160	40	3	319	368	4054.5	4770	3.4	22218	22218 K

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
90	160	52.4	3	348	431	2907	3420	4.65	23218	23218 K
	190	43	4.5	372	441	3672	4320	6.1	21318	21318 K
	190	64	6	598	681	2754	3240	9.05	22318	22318 K
95	170	43	4.5	372	441	3672	4320	4.15	22219	22219 K
	200	45	4.5	417	480	3442.5	4050	7.05	21319	21319 K
	200	67	6	657	750	2601	3060	10.5	22319	22319 K
100	150	50	3	279	407	3060	3600	3.15	24020	24020 K30
	165	52	3	358	480	3060	3600	4.55	23120	23120 K
	165	65	2	446	627	2448	2880	5.65	24120	24120 K30
	180	46	4.5	417	480	3442.5	4050	4.9	22220	22220 K
	180	60.3	4.5	466	588	2601	3060	6.85	23220	23220 K
	215	47	4.5	417	480	3442.5	4050	8.6	21320	21320 K
	215	73	6	799	931	2295	2700	13.5	22320	22320 K
110	170	45	3	304	431	3289.5	3870	3.8	23022	23022 K
	170	60	3	407	608	2754	3240	5	24022	24022 K30
	180	56	4.5	421	573	2754	3240	5.75	23122	23122 K
	180	69	3	510	735	2295	2700	7.1	24122	24122 K30
	200	53	4.5	549	627	3060	3600	7	22222	22222 K
	200	69.8	4.5	588	750	2448	2880	9.85	23222	23222 K
	240	80	7.5	931	1098	2142	2520	18.4	22322	22322 K
120	180	46	3	348	500	3060	3600	4.2	23024	23024 K
	180	60	3	421	657	2601	3060	5.45	24024	24024 K30
	200	62	4.5	500	681	2601	3060	8	23124	23124 K
	200	80	3	642	931	1989	2340	10.3	24124	24124 K30
	215	58	6	617	750	2907	3420	8.7	22224	22224 K
	215	76	4.5	681	911	2142	2520	12	23224	23224 K
	260	86	7.5	946	1098	1989	2340	23	22324	22324 K
130	200	52	4.5	421	598	2754	3240	6	23026	23026 K
	200	69	3	529	799	2295	2700	8.05	24026	24026 K30
	210	64	4.5	549	764	2448	2880	8.8	23126	23126 K
	210	80	3	666	980	1836	2160	11	24126	24126 K30
	230	64	6	720	911	2754	3240	11	22226	22226 K
	230	80	4.5	764	1039	1989	2340	14.5	23226	23226 K
	280	93	9	1098	1294	1836	2160	29	22326	22326 K
140	210	53	4.5	456	666	2601	3060	6.55	23028	23028 K
	210	69	3	559	882	2142	2520	8.55	24028	24028 K30
	225	68	4.5	617	882	2142	2520	10.5	23128	23128 K
	225	85	4.5	750	1137	1836	2160	13.5	24128	24128 K30
	250	68	6	696	882	2448	2880	14	22228	22228 K
	250	88	6	897	1225	1836	2160	19	23228	23228 K
150	300	102	9	1264	1529	1683	1980	36.5	22328	22328 K
	225	56	4.5	500	735	2448	2880	7.95	23030	23030 K
	225	75	3	642	1019	1989	2340	10.5	24030	24030 K30

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
150	250	80	6	813	1176	1989	2340	16	23130	23130 K
	250	100	4.5	1000	1499	1683	1980	20	24130	24130 K30
	270	73	7.5	833	1058	2295	2700	18	22230	22230 K
	270	96	6	1058	1431	1683	1980	24.5	23230	23230 K
	320	108	9	1431	1725	1530	1800	43.5	22330	22330 K
160	240	60	6	573	862	2295	2700	9.7	23032	23032 K
	240	80	4.5	735	1176	1836	2160	13	24032	24032 K30
	270	86	7.5	960	1343	1836	2160	20.5	23132	23132 K
	270	109	4.5	1156	1725	1453.5	1710	25	24132	24132 K30
	290	80	7.5	980	1264	2142	2520	22.5	22232	22232 K
	290	104	7.5	1196	1627	1683	1980	31	23232	23232 K
	340	114	9	1568	1921	1453.5	1710	52	22332	22332 K
170	260	67	6	696	1039	2142	2520	13	23034	23034 K
	260	90	4.5	911	1431	1836	2160	17.5	24034	24034 K30
	280	88	7.5	1019	1470	1836	2160	22	23134	23134 K
	280	109	4.5	1196	1823	1453.5	1710	27.5	24134	24134 K30
	310	86	9	1098	1431	1989	2340	28.5	22234	22234 K
	310	110	7.5	1372	1891	1530	1800	37.5	23234	23234 K
	360	120	9	1725	2117	1377	1620	61	22334	22334 K
180	250	52	3	422	813	2142	2520	7.9	23936	23936 K
	280	74	7.5	813	1225	1989	2340	17	23036	23036 K
	280	100	4.5	1058	1695	1683	1980	23	24036	24036 K30
	300	96	7.5	1176	1725	1683	1980	28	23136	23136 K
	300	118	6	1372	2117	1300.5	1530	34.5	24136	24136 K30
	320	86	9	1156	1529	1989	2340	29.5	22236	22236 K
	320	112	7.5	1470	2078	1453.5	1710	39.5	23236	23236 K
	380	126	9	1960	2401	1300.5	1530	71.5	22336	22336 K
190	260	52	3	406	784	1989	2340	8.3	23938	23938 K
	290	75	7.5	848	1313	1836	2160	18	23038	23038 K
	290	100	4.5	1098	1764	1530	1800	24.5	24038	24038 K30
	320	104	7.5	1343	2038	1530	1800	35	23138	23138 K
	320	128	6	1568	2450	1224	1440	43	24138	24138 K30
	340	92	9	1245	1666	1836	2160	36.5	22238	22238 K
	340	120	9	1627	2352	1377	1620	48	23238	23238 K
	400	132	6	2078	2597	1224	1440	82.5	22338	22338 K
200	280	60	4.5	535	1019	1836	2160	11.5	23940	23940 K
	310	82	7.5	980	1499	1683	1980	23.3	23040	23040 K
	310	109	6	1264	2078	1453.5	1710	31	24040	24040 K30
	340	112	9	1568	2313	1453.5	1710	43	23140	23140 K
	340	140	6	1764	2744	1147.5	1350	53.5	24140	24140 K30
	360	98	9	1431	1891	1683	1980	43.5	22240	22240 K
	360	128	9	1823	2646	1300.5	1530	58	23240	23240 K
	420	138	12	2274	2842	1147.5	1350	95	22340	22340 K
220	300	60	4.5	535	1058	1683	1980	12.5	23944	23944 K
	340	90	7.5	1196	1823	1530	1800	30.5	23044	23044 K
	340	118	6	1529	2548	1300.5	1530	40	24044	24044 K30

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
220	370	120	9	1764	2695	1300.5	1530	53.5	23144	23144 K
	370	150	6	2078	3283	1071	1260	67	24144	24144 K30
	400	108	9	1725	2313	1530	1800	60.5	22244	22244 K
	400	144	9	2313	3381	1147.5	1350	81.5	23244	23244 K
	460	145	12	2646	3381	1071	1260	120	22344	22344 K
240	320	60	4.5	553	1137	1530	1800	13.5	23948	23948 K
	360	92	7.5	1264	2038	1453.5	1710	33.5	23048	23048 K
	360	118	6	1568	2646	1224	1440	43	24048	24048 K30
	400	128	9	2038	3136	1224	1440	66.5	23148	23148 K
	400	160	6	2352	3822	994.5	1170	83	24148	24148 K30
	440	120	9	2156	2940	1377	1620	83	22248	22248 K
	440	160	9	2842	4214	994.5	1170	110	23248	23248 K
	500	155	12	3038	3920	994.5	1170	155	22348	22348 K
260	360	75	4.5	862	1764	1453.5	1710	23.5	23952	23952 K
	400	104	7.5	1568	2499	1300.5	1530	48.5	23052	23052 K
	400	140	6	1999	3381	1071	1260	65.5	24052	24052 K30
	440	144	9	2499	3822	1071	1260	90.5	23152	23152 K
	440	180	6	2940	4704	918	1080	110	24152	24152 K30
	480	130	12	2597	3479	1224	1440	110	22252	22252 K
	480	174	12	3185	4655	918	1080	140	23252	23252 K
	540	165	12	3479	4459	841.5	990	190	22352	22352 K
280	380	75	6	828	1725	1300.5	1530	25	23956	23956 K
	420	106	9	1695	2793	1224	1440	52.5	23056	23056 K
	420	140	6	2117	3724	1071	1260	69.5	24056	24056 K30
	460	146	9	2597	4165	994.5	1170	97	23156	23156 K
	460	180	7.5	3038	4998	841.5	990	120	24156	24156 K30
	500	130	12	2646	3675	1147.5	1350	115	22256	22256 K
	500	176	12	3185	4802	841.5	990	150	23256	23256 K
	580	175	12	3920	5096	841.5	990	235	22356	22356 K
300	380	90	-	620	1560	1150	1350	16.5	23860	23860 K
	420	90	6	1176	2450	1224	1440	39.5	23960	23960 K
	460	118	9	2078	3381	1147.5	1350	71.5	23060	23060 K
	460	160	7.5	2646	4655	918	1080	97	24060	24060 K30
	500	160	9	3136	4998	918	1080	125	23160	23160 K
	500	200	7.5	3675	6174	765	900	160	24160	24160 K30
	540	140	12	3087	4165	1071	1260	145	22260	22260 K
	540	192	12	3822	5733	765	900	190	23260	23260 K
320	440	90	6	1401	2646	1147.5	1350	42	23964	23964 K
	480	121	9	2195	3724	1071	1260	78	23064	23064 K
	480	160	7.5	2793	4998	918	1080	100	24064	24064 K30
	540	176	12	3675	5880	841.5	990	165	23164	23164 K
	540	218	9	4165	6958	688.5	810	210	24164	24164 K30
	580	150	12	3528	4802	994.5	1170	175	22264	22264 K
	580	208	12	4312	6566	726.75	855	240	23264	23264 K
340	460	90	6	1431	2744	1071	1260	45.5	23968	23968 K
	520	133	12	2646	4459	994.5	1170	105	23068	23068 K
	520	180	9	3381	6076	841.5	990	140	24068	24068 K30

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
340	580	190	12	4165	6664	765	900	210	23168	23168 K
	580	243	9	5194	8477	650.25	765	280	24168	24168 K30
	620	224	12	4998	7644	612	720	295	23268	23268 K
360	480	90	6	1372	2695	994.5	1170	46	23972	23972 K
	540	134	12	2695	4704	918	1080	110	23072	23072 K
	540	180	9	3479	6419	765	900	145	24072	24072 K30
	600	192	12	4214	6811	765	900	220	23172	23172 K
	600	243	9	5488	9114	612	720	280	24172	24172 K30
	650	170	12	4214	6076	650.25	765	255	22272	22272 K
	650	232	12	5292	8134	573.75	675	335	23272	23272 K
380	520	106	7.5	1921	3724	918	1080	69	23976	23976 K
	560	135	12	2842	4900	918	1080	115	23076	23076 K
	560	180	9	3528	6664	726.75	855	150	24076	24076 K30
	620	194	12	4312	6958	765	900	230	23176	23176 K
	620	243	9	5586	9604	650.25	765	300	24176	24176 K30
	680	240	12	5733	8967	573.75	675	375	23276	23276 K
400	540	106	7.5	1960	3822	918	1080	71	23980	23980 K
	600	148	12	3185	5586	841.5	990	150	23080	23080 K
	600	200	12	4214	7840	688.5	810	205	24080	24080 K30
	650	200	12	4557	7497	726.75	855	265	23180	23180 K
	650	250	12	6076	10388	612	720	340	24180	24180 K30
	720	256	12	6419	10192	512.55	603	450	23280	23280 K
	820	243	12	7350	10192	573.75	675	650	22380	22380 K
420	560	106	9	1999	4067	841.5	990	74.5	23984	23984 K
	620	150	12	3332	5880	841.5	990	155	23084	23084 K
	620	200	12	4312	8134	688.5	810	210	24084	24084 K30
	700	224	12	5488	9114	688.5	810	350	23184	23184 K
	700	280	12	7203	12348	535.5	630	445	24184	24184 K30
	760	272	12	7203	11368	481.95	567	535	23284	23284 K
440	600	118	9	2401	4802	765	900	99.5	23988	23988 K
	650	157	12	3577	6419	765	900	180	23088	23088 K
	650	212	12	4704	8967	650.25	765	245	24088	24088 K30
	720	226	12	5880	9800	650.25	765	360	23188	23188 K
	720	280	12	7350	12936	535.5	630	460	24188	24188 K30
	790	280	12	7644	12250	459	540	590	23288	23288 K
460	580	118	6	1754	4802	841.5	990	75.5	24892	24892 K30
	620	118	9	2450	4900	765	900	105	23992	23992 K
	680	163	12	3822	6811	726.75	855	205	23092	23092 K
	680	218	12	5096	9800	612	720	275	24092	24092 K30
	760	240	12	6272	10584	612	720	440	23192	23192 K
	760	300	12	8134	14308	512.55	603	560	24192	24192 K30
	830	296	12	8330	13426	428.4	504	695	23292	23292 K
480	600	90	7.5	1411	3675	792	990	61	23896	23896 K
	650	128	7.5	2842	5586	765	900	125	23996	23996 K
	700	165	9	3822	6664	726.75	855	215	23096	23096 K

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
480	700	218	12	5194	10192	573.75	675	285	24096	24096 K30
	790	248	12	6811	11760	573.75	675	485	23196	23196 K
	790	308	12	8820	15288	481.95	567	605	24196	24196 K30
	870	310	12	9114	14700	405.45	477	800	23296	23296 K
500	620	90	7.5	1450	3920	900	720	62	238/500	238/500 K
	670	128	7.5	2842	5880	726.75	855	130	239/500	239/500 K
	720	167	12	4067	7644	688.5	810	225	230/500	230/500 K
	720	218	12	5390	10780	535.5	630	295	240/500	240/500 K30
	830	264	12	7497	12642	535.5	630	580	231/500	231/500 K
	830	325	12	9604	16660	459	540	700	241/500	241/500 K30
	920	336	12	10388	16954	382.5	450	985	232/500	232/500 K
530	650	118	7.5	1803	5194	726.75	855	86	248/530	248/530 K30
	710	136	12	3136	6566	688.5	810	155	239/530	239/530 K
	780	185	12	4998	9114	612	720	310	230/530	230/530 K
	780	250	12	6566	12936	512.55	603	410	240/530	240/530 K30
	870	272	12	7987	13720	512.55	603	645	231/530	231/530 K
	870	335	12	10388	18620	428.4	504	830	241/530	241/530 K30
	980	355	12	10878	19992	367.2	432	1200	232/530	232/530 K
560	750	140	12	3381	7056	650.25	765	175	239/560	239/560 K
	820	195	12	5488	9996	573.75	675	355	230/560	230/560 K
	820	258	12	7203	14308	481.95	567	465	240/560	240/560 K30
	920	280	12	8967	15680	481.95	567	740	231/560	231/560 K
	920	355	12	11760	21168	382.5	450	985	241/560	241/560 K30
	1030	365	12	11270	21560	328.95	387	1350	232/560	232/560 K
600	800	150	12	3822	8134	573.75	675	220	239/600	239/600 K
	870	200	12	5880	11172	535.5	630	405	230/600	230/600 K
	870	272	12	7987	16660	428.4	504	520	240/600	240/600 K30
	980	300	12	9996	17640	428.4	504	895	231/600	231/600 K
	980	375	12	11270	23128	367.2	432	1200	241/600	241/600 K30
	1090	388	12	12838	24990	306	360	1600	232/600	232/600 K
630	780	112	9	2146	5978	573.75	675	120	238/630	238/630 K
	850	165	12	4557	9604	535.5	630	280	239/630	239/630 K
	920	212	12	6566	12250	512.55	603	485	230/630	230/630 K
	920	290	12	8624	17640	405.45	477	645	240/630	240/630 K30
	1030	315	12	10290	20384	405.45	477	1050	231/630	231/630 K
	1030	400	12	12446	26460	344.25	405	1400	241/630	241/630 K30
670	820	112	9	2205	6272	535.5	630	130	238/670	238/670 K -
	820	150	9	3048	9310	535.5	630	172	248/670	239/670 K
	900	170	12	4900	10584	512.55	603	315	239/670	230/670 K
	980	230	12	7497	14308	459	540	600	230/670	240/670 K30
	980	308	12	9800	19992	382.5	450	790	240/670	231/670 K
	1090	336	12	10682	21952	382.5	450	1250	231/670	241/670 K30
	1090	412	12	13524	28420	306	360	1600	241/670	232/670 K
	1220	438	12	15092	29890	275.4	324	2270	232/670	
710	870	118	12	2528	7350	512.55	603	153	238/710	-

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
710	950	180	12	5488	11760	459	540	365	239/710	239/710 K
	950	243	12	6664	15288	382.5	450	495	249/710	249/710 K30
	1030	236	12	8134	15974	428.4	504	670	230/710	230/710 K
	1030	315	12	10388	22344	344.25	405	895	240/710	240/710 K30
	1150	345	12	11956	25480	344.25	405	1450	231/710	231/710 K
	1150	438	12	14896	31850	290.7	342	1900	241/710	241/710 K30
	1280	450	12	17248	33810	244.8	288	2610	232/710	232/710 K
750	920	128	12	2871	8330	459	540	180	238/750	238/750 K
	1000	185	12	5880	12936	428.4	504	420	239/750	239/750 K
	1000	250	12	7497	17640	367.2	432	560	249/750	249/750 K30
	1090	250	12	9457	18228	405.45	477	795	230/750	230/750 K
	1090	335	12	11564	24500	328.95	387	1065	240/750	240/750 K30
	1220	365	12	13524	28420	328.95	387	1700	231/750	231/750 K
	1220	475	12	16954	36750	275.4	324	2100	241/750	241/750 K30
	1360	475	12	18326	35770	229.5	270	3050	232/750	232/750 K
800	980	180	12	4057	12642	428.4	504	300	248/800	248/800 K30
	1060	195	12	6272	14014	405.45	477	470	239/800	239/800 K
	1060	258	12	7840	18914	328.95	387	640	249/800	249/800 K30
	1150	258	12	9800	19600	367.2	432	895	230/800	230/800 K
	1150	345	12	12642	27930	306	360	1200	240/800	240/800 K30
	1280	375	12	14504	30870	306	360	1920	231/800	231/800 K
	1280	475	12	18032	39690	244.8	288	2300	241/800	241/800 K30
850	1030	136	12	3273	9800	405.45	477	240	238/850	238/850 K
	1120	200	12	6811	15288	367.2	432	560	239/850	239/850 K
	1120	272	12	9114	22344	306	360	740	249/850	249/850 K30
	1220	272	12	9183	21168	344.25	405	1050	230/850	230/850 K
	1220	365	12	12446	30870	275.4	324	1410	240/850	240/850 K30
	1360	400	12	15778	33810	275.4	324	2200	231/850	231/850 K
	1360	500	12	19796	44100	229.5	270	2710	241/850	241/850 K30
900	1090	190	12	4567	14994	367.2	432	370	248/900	248/900 K30
	1180	206	12	7350	16660	344.25	405	605	239/900	239/900 K
	1280	280	12	9898	22736	306	360	1200	230/900	230/900 K
	1280	375	12	13328	33810	260.1	306	1570	240/900	240/900 K30
	1420	515	12	20972	48020	214.2	252	3350	241/900	241/900 K30
950	1250	224	12	7105	19208	328.95	387	755	239/950	239/950 K
	1250	300	12	9016	25480	260.1	306	1015	249/950	249/950 K30
	1360	300	12	11760	27930	290.7	342	1450	230/950	230/950 K
	1360	412	12	14504	38220	229.5	270	1990	240/950	240/950 K30
	1500	545	12	23422	53900	198.9	234	3535	241/950	241/950 K30
1000	1220	165	12	4567	14014	306	360	410	238/1000	238/1000 K
	1320	315	12	10192	28420	244.8	288	1200	249/1000	249/1000 K30
	1420	308	12	12446	29890	275.4	324	1600	230/1000	230/1000 K
	1420	412	12	15092	39690	214.2	252	2140	240/1000	240/1000 K30

Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
1000	1580	462	12	20972	47040	214.2	252	3500	231/1000	231/1000 K
	1580	580	12	26166	60760	183.6	216	4300	241/1000	241/1000 K30
1060	1280	165	12	4674.6	14700	273.6	342	435	238/1060	238/1060 K
	1280	218	12	5978	19600	273.6	342	570	248/1060	248/1060 K
	1400	250	12	9359	25480	259.2	324	1100	239/1060	239/1060 K
	1400	335	12	11270	31850	201.6	252	1400	249/1060	249/1060 K
	1500	325	12	13524	33320	230.4	288	2250	230/1060	230/1060 K
	1500	438	12	16954	44590	187.2	234	2515	240/1060	240/1060 K
1120	1360	243	12	7105	23520	244.8	306	735	248/1120	248/1120 K
	1460	335	12	11466	33810	187.2	234	1500	249/1120	249/1120 K
	1580	462	12	18326	4900	172.8	216	2925	240/1120	240/1120 K
1180	1420	180	12	5752.6	18228	230.4	288	575	238/1180	238/1180 K
	1420	243	12	7555.8	26460	230.4	288	770	248/1180	248/1180 K
	1540	272	12	10878	30380	216	270	1400	239/1180	239/1180 K
	1540	355	12	13328	39690	172.8	216	1800	249/1180	249/1180 K
1250	1750	375	12	17542	44100	93.6	117	2840	230/1250	230/1250 K
1320	1600	280	12	9584.4	32830	187.2	234	1160	248/1320	248/1320 K
	1720	400	12	15778	48020	144	180	2500	249/1320	249/1320 K
1500	1820	315	12	12446	44100	144	180	1710	248/1500	248/1500 K
1800	2180	375	12	17248	61740	93.6	117	2900	248/1800	248/1800 K



Bearings with a circumferential groove and three lubrication holes in the outer ring are supplied upon request.

SPHERICAL ROLLER BEARINGS WITH A SHIELD

Size				Load factor		Limiting speed (rpm)	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static			Cylindrical bore	Tapered bore
25	52	23	2	48.02	43.12	3060	0.31	22205-2RS*	-
30	62	25	2	62.72	58.8	2380	0.34	22206-2RS*	-
35	72	28	2	84.77	83.3	2040	0.52	22207-2RS*	-
40	80	28	3	94.57	88.2	1870	0.57	22208-2RS*	22208-2RSK
	90	38	3	147	137.2	1615	1.2	22308-2RS	-
45	85	28	3	99.96	96.04	1700	0.66	22209-2RS*	22209-2RSK
50	90	28	3	101.92	105.84	1615	0.7	22210-2RS*	22210-2RSK
55	100	31	3	122.5	124.46	1445	1	22211-2RS*	22211-2RSK
	120	49	3	264.6	274.4	1190	2.8	22311-2RS	-
60	110	34	3	152.88	162.68	1360	1.3	22212-2RS*	22212-2RSK
65	120	38	3	189.14	211.68	1275	1.6	22213-2RS*	22213-2RSK
70	125	38	3	203.84	223.44	1190	1.8	22214-2RS*	22214-2RSK
75	130	38	3	207.76	235.2	1105	2.1	22215-2RS*	22215-2RSK
	160	64	4.5	431.2	465.5	807.5	6.5	22315-2RS	-
80	140	40	3	231.28	264.6	1020	2.4	22216-2RS*	22216-2RSK
85	150	44	3	279.3	318.5	935	3	22217-2RS*	22217-2RSK
90	160	48	3	318.5	367.5	850	3.7	22218-2RS*	22218-2RSK
100	180	55	4.5	416.5	480.2	765	5.5	22220-2RS*	-
110	170	45	4.5	303.8	431.2	765	3.75	23022-2RS	-
	180	56	4.5	421.4	573.3	680	5.55	23122-2RS	-
	180	69	3	509.6	735	535.5	6.85	24122-2RS	-
	200	63	4.5	548.8	627.2	680	7.6	22222-2RS*	-
120	180	46	3	347.9	499.8	722.5	4.2	23024-2RS	-
	180	60	3	421.4	656.6	569.5	5.45	24024-2RS	-
	200	80	3	641.9	931	476	10.5	24124-2RS	-
	215	69	6	617.4	749.7	637.5	9.75	22224-2RS*	-
130	200	52	4.5	421.4	597.8	680	6	23026-2RS	-
	200	69	3	529.2	798.7	510	8.05	24026-2RS	-
	210	80	3	666.4	980	450.5	11	24126-2RS	-
140	210	69	3	558.6	882	476	8.55	24028-2RS	-
	225	85	4.5	749.7	1136.8	382.5	13.5	24128-2RS	-
	250	88	6	896.7	1225	450.5	19.5	23228-2RS	-
150	225	75	3	641.9	1019.2	450.5	10.5	24030-2RS	-
	250	100	4.5	999.6	1499.4	340	20	24130-2RS	-
160	240	80	4.5	735	1176	382.5	13	24032-2RS	-
	270	86	7.5	960.4	1342.6	450.5	20.5	23132-2RS	-

* Equivalent to SKF BS2-22...-2CS bearing

SPHERICAL ROLLER BEARINGS WITH A SHIELD

Size				Load factor		Limiting speed (rpm)	Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static			Cylindrical bore	Tapered bore
170	260	90	4.5	911.4	1430.8	340	17.5	24034-2RS	-
	280	109	4.5	1195.6	1822.8	306	27.5	24134-2RS	-
180	280	100	4.5	1058.4	1695.4	323	23	24036-2RS	-
190	320	128	6	1568	2450	289	43	24138-2RS	-
200	340	140	6	1764	2744	272	53.5	24140-2RS	-
	360	128	9	1822.8	2646	365.5	58	23240-2RS	-
220	300	60	4.5	535.08	1059	510	12.5	23944-2RS	-



SPHERICAL ROLLER BEARINGS FOR VIBRATORY EQUIPMENT

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Cylindrical bore	Tapered bore
						Bearing grease	Bearing oil			
40	90	33	3	147	137	6120	7200	1.05	22308 VA	-
45	100	36	3	179	179	5355	6300	1.4	22309 VA	-
50	110	40	3	216	220	4820	5670	1.9	22310 VA	-
55	120	43	3	265	274	4284	5040	2.45	22311 VA	22311 KVA
60	130	46	4.5	304	328	4055	4770	3.1	22312 VA	22312 KVA
65	140	48	4.5	333	353	3825	4500	3.75	22313 VA	22313 KVA
70	150	51	4.5	392	421	3443	4050	4.55	22314 VA	22314 KVA
75	160	55	4.5	431	466	3290	3870	5.55	22315 VA	22315 KVA
80	170	58	4.5	480	529	3060	3600	6.6	22316 VA	22316 KVA
85	180	60	4.5	539	608	2907	3420	7.65	22317 VA	22317 KVA
90	190	64	6	598	681	2754	3240	9.05	22318 VA	22318 KVA
95	200	67	6	657	750	2601	3060	10.5	22319 VA	22319 KVA
100	215	73	6	799	931	2295	2700	13.5	22320 VA	22320 KVA
110	240	80	7.5	931	1098	2142	2520	18.4	22322 VA	22322 KVA
120	260	86	7.5	946	1098	1989	2340	23	22324 VA	22324 KVA
130	280	93	9	1098	1294	1836	2160	29	22326 VA	22326 KVA
140	300	102	9	1264	1529	1683	1980	36.5	22328 VA	22328 KVA
150	320	108	9	1431	1725	1530	1800	43.5	22330 VA	22330 KVA
160	340	114	9	1568	1921	1454	1710	52	22332 VA	22332 KVA
170	360	120	9	1725	2117	1377	1620	61	22334 VA	22334 KVA
180	380	126	12	1960	2401	1301	1530	71.5	22336 VA	22336 KVA
190	400	132	12	2078	2597	1224	1440	82.5	22338 VA	22338 KVA
200	420	138	12	2274	2842	1148	1350	95	22340 VA	22340 KVA
220	460	145	12	2646	3381	1071	1260	120	22344 VA	22344 KVA
240	500	155	12	3038	3920	995	1170	155	22348 VA	22348 KVA

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
20	52	18	2	29	48	43	13005	15300	0.33	22205 EKW33	H 305
25	62	20	2	31	63	59	10710	12600	0.39	22206 EKW33	H 306
	72	19	-	31	54	60	7650	9000	0.51	21306 EKW33	H 306
30	72	23	2	53	85	83	9180	10800	0.59	22207 EKW33	H 307
	80	21	-	35	64	71	7268	8550	0.69	21307 EKW33	H 307
35	80	23	3	36	95	88	8415	9900	0.68	22208 EKW33	H 308
	90	23	3	36	102	106	7268	8550	0.92	21308 EKW33	H 308
	90	33	3	46	147	137	6120	7200	1.25	22308 EKW33	H 2308
40	85	23	3	39	100	96	7650	9000	0.81	22209 EKW33	H 309
	100	25	3	39	123	124	6503	7650	1.2	21309 EKW33	H 309
	100	36	3	50	179	179	5355	6300	1.7	22309 EKW33	H 2309
45	90	23	3	42	102	106	7268	8550	0.9	22210 EKW33	H 310
	110	27	3	42	153	163	5738	6750	1.6	21310 EKW33	H 310
	110	40	3	55	216	220	4820	5670	2.25	22310 EKW33	H 2310
50	100	25	3	45	123	124	6503	7650	1.1	22211 EKW33	H 311
	120	29	3	45	153	163	5738	6750	1.95	21311 EKW33	H 311
	120	43	3	59	265	274	4284	5040	2.85	22311 EKW33	H 2311
55	110	28	3	47	153	163	5738	6750	1.45	22212 EKW33	H 312
	130	31	3	47	208	235	4820	5670	2.35	21312 EKW33	H 312
	130	46	4.5	62	304	328	4055	4770	3.5	22312 EKW33	H 2312
60	120	31	3	50	189	212	5355	6300	1.95	22213 EKW33	H 313
	140	33	3	50	231	265	4590	5400	2.9	21313 EKW33	H 313
	140	48	4.5	65	333	353	3825	4500	4.2	22313 EKW33	H 2313
65	130	31	3	55	208	235	4820	5670	2.45	22215 EKW33	H 315
	160	37	3	55	279	319	4284	5040	4.5	21315 EKW33	H 315
	160	55	4.5	73	431	466	3290	3870	6.5	22315 EKW33	H 2315
70	140	33	3	59	231	265	4590	5400	3	22216 EKW33	H 316
	170	39	3	59	319	368	4055	4770	5.3	21316 EKW33	H 316
	170	58	4.5	78	480	529	3060	3600	7.65	22316 EKW33	H 2316
75	150	36	3	63	279	319	4284	5040	3.7	22217 EKW33	H 317
	180	41	3	63	319	368	4055	4770	6.2	21317 EKW33	H 317
	180	60	4.5	82	539	608	2907	3420	8.85	22317 EKW33	H 2317
80	160	40	3	65	319	368	4055	4770	4.55	22218 EKW33	H 318
	160	52.4	3	86	348	431	2907	3420	6	23218 EKW33	H 2318
	190	43	4.5	65	372	441	3672	4320	7.25	21318 EKW33	H 318
	190	64	6	86	598	681	2754	3240	10.5	22318 EKW33	H 2318
85	170	43	4.5	68	372	441	3672	4320	5.45	22219 EKW33	H 319
	200	45	4.5	68	417	480	3443	4050	8.25	21319 EKW33	H 319
	200	67	6	90	657	750	2601	3060	12	22319 EKW33	H 2319

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
90	165	52	3	76	358	480	3060	3600	6.15	23120 EKW33	H 3120
	180	46	4.5	71	417	480	3443	4050	6.4	22220 EKW33	H 320
	180	60.3	4.5	97	466	588	2601	3060	8.75	23220 EKW33	H 2320
	215	47	4.5	71	417	480	3443	4050	10.5	21320 EKW33	H 320
	215	73	6	97	799	931	2295	2700	15.2	22320 EKW33	H 2320
100	170	45	3	77	304	431	3290	3870	5.75	23022 EKW33	H 322
	180	56	4.5	81	421	573	2754	3240	7.7	23122 EKW33	H 3122
	200	53	4.5	77	549	627	3060	3600	8.9	22222 EKW33	H 322
	200	69.8	4.5	105	588	750	2448	2880	12.5	23222 EKW33	H 2322
	240	80	7.5	105	931	1098	2142	2520	21	22322 EKW33	H 2322
110	180	46	3	72	348	500	3060	3600	5.95	23024 EKW33	H 3024
	200	62	4.5	88	500	681	2601	3060	10	23124 EKW33	H 3124
	215	58	6	88	617	750	2907	3420	11	22224 EKW33	H 3124
	215	76	4.5	112	681	911	2142	2520	14.7	23224 EKW33	H 2324
	260	86	7.5	112	946	1098	1989	2340	25.5	22324 EKW33	H 2324
115	200	52	4.5	80	421	598	2754	3240	8.6	23026 EKW33	H 3026
	210	64	4.5	92	549	764	2448	2880	12	23126 EKW33	H 3126
	230	64	6	92	720	911	2754	3240	14	22226 EKW33	H 3126
	230	80	4.5	121	764	1039	1989	2340	18.5	23226 EKW33	H 2326
	280	93	9	121	1098	1294	1836	2160	33	22326 EKW33	H 2326
125	210	53	4.5	82	456	666	2601	3060	9.4	23028 EKW33	H 3028
	225	68	4.5	97	617	882	2142	2520	14.3	23128 EKW33	H 3128
	250	68	6	97	696	882	2448	2880	17.8	22228 EKW33	H 3128
	250	88	6	131	897	1225	1836	2160	24	23228 EKW33	H 2328
	300	102	9	131	1264	1529	1683	1980	41	22328 EKW33	H 2328
135	225	56	4.5	87	500	735	2448	2880	11	23030 EKW33	H 3030
	250	80	6	111	813	1176	1989	2340	20.8	23130 EKW33	H 3130
	270	73	7.5	111	833	1058	2295	2700	22.8	22230 EKW33	H 3130
	270	96	6	139	1058	1431	1683	1980	30	23230 EKW33	H 2330
	320	108	9	139	1431	1725	1530	1800	47.4	22330 EKW33	H 2330
140	240	60	6	93	573	862	2295	2700	14.5	23032 EKW33	H 3032
	270	86	7.5	119	960	1343	1836	2160	27.3	23132 EKW33	H 3132
	290	80	7.5	119	980	1264	2142	2520	29.3	22232 EKW33	H 3132
	290	104	7.5	147	1196	1627	1683	1980	38.8	23232 EKW33	H 2332
	340	114	9	147	1568	1921	1454	1710	60	22332 EKW33	H 2332
150	260	67	6	101	696	1039	2142	2520	18.3	23034 EKW33	H 3034
	280	88	7.5	122	1019	1470	1836	2160	29.5	23134 EKW33	H 3134
	310	86	9	122	1098	1431	1989	2340	36	22234 EKW33	H 3134
	310	110	7.5	154	1372	1891	1530	1800	46.4	23234 EKW33	H 2334
	360	120	9	154	1725	2117	1377	1620	69.5	22334 EKW33	H 2334

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
160	250	52	3	87	422	813	2142	2520	13.4	23936 EKW33	H 3936
	280	74	7.5	109	813	1225	1989	2340	23.2	23036 EKW33	H 3036
	300	96	7.5	131	1176	1725	1683	1980	37	23136 EKW33	H 3136
	320	86	9	131	1156	1529	1989	2340	38.2	22236 EKW33	H 3136
	320	112	7.5	161	1470	2078	1454	1710	49.5	23236 EKW33	H 2336
	380	126	12	161	1960	2401	1301	1530	80	22336 EKW33	H 2336
170	260	52	9	89	406	784	1989	2340	14.5	23938 EKW33	H 3938
	290	75	7.5	112	848	1313	1836	2160	24.8	23038 EKW33	H 3038
	320	104	7.5	141	1343	2038	1530	1800	44.5	23138 EKW33	H 3138
	340	92	9	141	1245	1666	1836	2160	46	22238 EKW33	H 3138
	340	120	9	169	1627	2352	1377	1620	59	23238 EKW33	H 2338
	400	132	12	169	2078	2597	1224	1440	93	22338 EKW33	H 2338
180	280	60	4.5	98	535	1019	1836	2160	19	23940 EKW33	H 3940
	310	82	7.5	120	980	1499	1683	1980	31.7	23040 EKW33	H 3040
	340	112	9	150	1568	2313	1454	1710	55.5	23140 EKW33	H 3140
	360	98	9	150	1431	1891	1683	1980	66	22240 EKW33	H 3140
	360	128	9	176	1823	2646	1301	1530	70	23240 EKW33	H 2340
	420	138	12	176	2274	2842	1148	1350	107	22340 EKW33	H 2340
200	300	60	4.5	96	535	1058	1683	1980	22.5	23944 EKW33	OH 3944 H
	340	90	7.5	126	1196	1823	1530	1800	39.4	23044 EKW33	OH 3044 H
	370	120	9	161	1764	2695	1301	1530	67.5	23144 EKW33	OH 3144 H
	400	108	9	161	1725	2313	1530	1800	74	22244 EKW33	OH 3144 H
	400	144	9	186	2313	3381	1148	1350	96.5	23244 EKW33	OH 2344 H
	460	145	12	186	2646	3381	1071	1260	135	22344 EKW33	OH 2344 H
220	320	60	4.5	101	553	1137	1530	1800	24.5	23948 EKW33	OH 3948 H
	360	92	7.5	133	1264	2038	1454	1710	44.5	23048 EKW33	OH 3048 H
	400	128	9	172	2038	3136	1224	1440	80.5	23148 EKW33	OH 3148 H
	440	120	12	172	2156	2940	1377	1620	99	22248 EKW33	OH 3148 H
	440	160	12	199	2842	4214	995	1170	125	23248 EKW33	OH 2348 H
	500	155	12	199	3038	3920	995	1170	170	22348 EKW33	OH 2348 H
240	360	75	4.5	116	862	1764	1454	1710	35	23952 EKW33	OH 3952 H
	400	104	9	145	1568	2499	1301	1530	60.5	23052 EKW33	OH 3052 H
	440	144	9	190	2499	3822	1071	1260	109	23152 EKW33	OH 3152 H
	480	130	12	190	2597	3479	1224	1440	130	22252 EKW33	OH 3152 H
	480	174	12	211	3185	4655	918	1080	160	23252 EKW33	OH 2352 H
	540	165	12	211	3479	4459	842	990	215	22352 EKW33	OH 2352 H
260	380	75	6	121	828	1725	1301	1530	40	23956 EKW33	OH 3956 H
	420	106	9	152	1695	2793	1224	1440	67	23056 EKW33	OH 3056 H
	460	146	9	195	2597	4165	995	1170	115	23156 EKW33	OH 3156 H
	500	130	12	195	2646	3675	1148	1350	135	22256 EKW33	OH 3156 H
	500	176	12	224	3185	4802	842	990	165	23256 EKW33	OH 2356 H
	580	175	12	224	3920	5096	842	990	250	22356 EKW33	OH 2356 H

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
280	420	90	6	140	1176	2450	1224	1440	58.5	23960 EKW33	OH 3960 H
	460	118	9	168	2078	3381	1148	1350	90	23060 EKW33	OH 3060 H
	500	160	9	208	3136	4998	918	1080	150	23160 EKW33	OH 3160 H
	540	140	12	208	3087	4165	1071	1260	170	22260 EKW33	OH 3160 H
	540	192	12	240	3822	5733	765	900	210	23260 EKW33	OH 3260 H
300	440	90	6	140	1401	2646	1148	1350	61	23964 EKW33	OH 3964 H
	480	121	9	171	2195	3724	1071	1260	97	23064 EKW33	OH 3064 H
	540	176	12	226	3675	5880	842	990	185	23164 EKW33	OH 3164 H
	580	150	12	226	3528	4802	995	1170	200	22264 EKW33	OH 3164 H
	580	208	12	258	4312	6566	727	855	260	23264 EKW33	OH 3264 H
320	460	90	6	144	1431	2744	1071	1260	67.5	23968 EKW33	OH 3968 H
	520	133	12	187	2646	4459	995	1170	130	23068 EKW33	OH 3068 H
	580	190	12	254	4165	6664	765	900	250	23168 EKW33	OH 3168 H
	620	224	12	288	4998	7644	612	720	335	23268 EKW33	OH 3268 H
340	480	90	6	144	1372	2695	995	1170	70.5	23972 EKW33	OH 3972 H
	540	134	12	188	2695	4704	918	1080	135	23072 EKW33	OH 3072 H
	600	192	12	259	4214	6811	765	900	260	23172 EKW33	OH 3172 H
	650	170	12	259	4214	6076	650	765	375	22272 EKW33	OH 3172 H
650	232	12	299	5292	8134	574	675	375	375	23272 EKW33	OH 3272 H
360	520	106	7.5	164	1921	3724	918	1080	95	23976 EKW33	OH 3976 H
	560	135	12	193	2842	4900	918	1080	145	23076 EKW33	OH 3076 H
	620	194	12	264	4312	6958	765	900	275	23176 EKW33	OH 3176 H
	680	240	12	310	5733	8967	574	675	420	23276 EKW33	OH 3276 H
380	540	106	7.5	168	1960	3822	918	1080	100	23980 EKW33	OH 3980 H
	600	148	12	210	3185	5586	842	990	180	23080 EKW33	OH 3080 H
	650	200	12	272	4557	7497	727	855	325	23180 EKW33	OH 3180 H
	720	256	12	328	6419	10192	513	603	505	23280 EKW33	OH 3280 H
	820	243	12	328	7350	10192	574	675	735	22380 EKW33	OH 3280 H
400	560	106	9	168	1999	4067	842	990	105	23984 EKW33	OH 3984 H
	620	150	12	212	3332	5880	842	990	190	23084 EKW33	OH 3084 H
	700	224	12	304	5488	9114	689	810	410	23184 EKW33	OH 3184 H
	760	272	12	352	7203	11368	482	567	590	23284 EKW33	OH 3284 H
410	600	118	9	189	2401	4802	765	900	150	23988 EKW33	OH 3988 H
	650	157	12	228	3577	6419	765	900	235	23088 EKW33	OH 3088 H
	720	226	12	307	5880	9800	650	765	430	23188 EKW33	OH 3188 H
	790	280	12	361	7644	12250	459	540	670	23288 EKW33	OH 3288 H
430	620	118	9	189	2450	4900	765	900	160	23992 EKW33	OH 3992 H
	680	163	12	234	3822	6811	727	855	265	23092 EKW33	OH 3092 H
	760	240	12	326	6272	10584	612	720	530	23192 EKW33	OH 3192 H
	830	296	12	382	8330	13426	428	504	790	23292 EKW33	2OH 3292 H

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
450	650	128	9	200	2842	5586	765	900	185	23996 EKW33	OH 3996 H
	700	165	12	237	3822	6664	727	855	275	23096 EKW33	OH 3096 H
	790	248	12	335	6811	11760	574	675	590	23196 EKW33	OH 3196 H
	870	310	12	397	9114	14700	405	477	935	23296 EKW33	OH 3296 H
470	670	128	12	208	2842	5880	727	855	195	239/500 EKW33	OH 39/500 H
	720	167	12	247	4067	7644	689	810	290	230/500 EKW33	OH 30/500 H
	830	264	12	356	7497	12642	536	630	690	231/500 EKW33	OH 31/500 H
	920	336	12	428	10388	16954	383	450	1100	232/500 EKW33	OH 32/500 H
500	710	136	12	216	3136	6566	689	810	255	239/530 EKW33	OH 39/530 H
	780	185	12	265	4998	9114	612	720	405	230/530 EKW33	OH 30/530 H
	870	272	12	364	7987	13720	513	603	785	231/530 EKW33	OH 31/530 H
	980	355	12	447	10878	19992	367	432	1360	232/530 EKW33	OH 32/530 H
530	750	140	12	227	3381	7056	612	765	260	239/560 EKW33	OH 39/560 H
	820	195	12	282	5488	9996	540	675	445	230/560 EKW33	OH 30/560 H
	920	280	12	377	8967	15680	453.6	567	880	231/560 EKW33	OH 31/560 H
	1030	365	12	462	11270	21560	309.6	387	1490	232/560 EKW33	OH 32/560 H
560	800	150	12	239	3822	8134	540	675	330	239/600 EKW33	OH 39/600 H
	870	200	12	289	5880	11172	504	630	525	230/600 EKW33	OH 30/600 H
	980	300	12	399	9996	17640	403.2	504	1070	231/600 EKW33	OH 31/600 H
	1090	388	12	487	12838	24990	288	360	1780	232/600 EKW33	OH 32/600 H
600	850	165	12	254	4557	9604	504	630	385	239/630 EKW33	OH 39/630 H
	920	212	12	301	6566	12250	482.4	603	595	230/630 EKW33	OH 30/630 H
	1030	315	12	424	10290	20384	381.6	477	1240	231/630 EKW33	OH 31/630 H
630	900	170	12	264	4900	10584	482.4	603	455	239/670 EKW33	OH 39/670 H
	980	230	12	324	7497	14308	432	540	755	230/670 EKW33	OH 30/670 H
	1090	336	12	456	10682	21952	360	450	1510	231/670 EKW33	OH 31/670 H
	1220	438	12	558	15092	29890	259.2	324	2535	232/670 EKW33	OH 32/670 H
670	950	180	12	286	5488	11760	432	540	525	239/710 EKW33	OH 39/710 H
	1030	236	12	342	8134	15974	403.2	504	860	230/710 EKW33	OH 30/710 H
	1150	345	12	467	11956	25480	324	405	1750	231/710 EKW33	OH 31/710 H
	1280	450	12	572	17248	33810	230.4	288	2995	232/710 EKW33	OH 32/710 H
710	1000	185	12	291	5880	12936	403.2	504	605	239/750 EKW33	OH 39/750 H
	1090	250	12	356	9457	18228	381.6	477	990	230/750 EKW33	OH 30/750 H
	1220	365	12	493	13524	28420	309.6	387	2045	231/750 EKW33	OH 31/750 H
	1360	475	12	603	18326	35770	216	270	3485	232/750 EKW33	OH 32/750 H
750	1060	195	12	303	6272	14014	381.6	477	730	239/800 EKW33	OH 39/800 H
	1150	258	12	366	9800	19600	345.6	432	1200	230/800 EKW33	OH 30/800 H
	1280	375	12	505	14504	30870	288	360	2430	231/800 EKW33	OH 31/800 H
800	1120	200	12	308	6811	15288	345.6	432	950	239/850 EKW33	OH 39/850 H
	1220	272	12	380	9182.6	21168	324	405	1390	230/850 EKW33	OH 30/850 H
	1360	400	12	536	15778	33810	259.2	324	2800	231/850 EKW33	OH 31/850 H

SPHERICAL ROLLER BEARINGS WITH AN ADAPTER SLEEVE

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	B1 (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
							Bearing grease	Bearing oil			
850	1180	206	12	326	7350	16660	324	405	930	239/900 EKW33	OH 39/900 H
	1280	280	12	400	9898	22736	288	360	1580	230/900 EKW33	OH 30/900 H
900	1250	224	12	344	7105	19208	309.6	387	1120	239/950 EKW33	OH 39/950 H
	1360	300	12	420	11760	27930	273.6	342	1870	230/950 EKW33	OH 30/950 H
950	1420	308	12	430	12446	29890	259.2	324	2070	230/1000 EKW33	OH 30/1000 H
	1580	462	12	609	20972	47040	201.6	252	4340	231/1000 EKW33	OH 31/1000 H
1000	1400	250	12	372	9359	25480	259.2	324	1590	239/1060 EKW33	OH 39/1060 H
	1500	325	12	447	13524	33320	230.4	288	2800	230/1060 EKW33	OH 30/1060 H



SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
35	80	23	3	95	88	8415.00	9900	0.6	22208 K	AH 308
	90	23	3	102	106	7267.50	8550	0.84	21308 K	AH 308
	90	33	3	147	137	6120.00	7200	1.2	22308 K	AH 2308
40	85	23	3	100	96	7650.00	9000	0.7	22209 K	AH 309
	100	25	3	123	124	6502.50	7650	1.1	21309 K	AH 309
	100	36	3	179	179	5355.00	6300	1.55	22309 K	AH 2309
45	90	23	3	102	106	7267.50	8550	0.75	22210 K	AHX 310
	110	27	3	153	163	5737.50	6750	1.45	21310 K	AHX 310
	110	40	3	216	220	4819.50	5670	2.1	22310 K	AHX 2310
50	100	25	3	123	124	6502.50	7650	0.95	22211 K	AHX 311
	120	29	3	153	163	5737.50	6750	1.8	21311 K	AHX 311
	120	43	3	265	274	4284.00	5040	2.7	22311 K	AHX 2311
55	110	28	3	153	163	5737.50	6750	1.3	22212 K	AHX 312
	130	31	3	208	235	4819.50	5670	2.2	21312 K	AHX 312
	130	46	4.5	304	328	4054.50	4770	3.3	22312 K	AHX 2312
60	120	31	3	189	212	5355.00	6300	1.7	22213 K	AH 313
	140	33	3	231	265	4590.00	5400	2.75	21313 K	AH 313
	140	48	4.5	333	353	3825.00	4500	4.1	22313 K	AH 2313
65	125	31	3	204	223	5125.50	6030	1.8	22214 K	AH 314
	150	35	3	279	319	4284.00	5040	3.35	21314 K	AH 314
	150	51	4.5	392	421	3442.50	4050	4.9	22314 K	AHX 2314
70	130	31	3	208	235	4819.50	5670	1.95	22215 K	AH 315
	160	37	3	279	319	4284.00	5040	4.15	21315 K	AH 315
	160	55	4.5	431	466	3289.50	3870	6	22315 K	AHX 2315
75	140	33	3	231	265	4590.00	5400	2.4	22216 K	AH 316
	170	39	3	319	368	4054.50	4770	4.75	21316 K	AH 316
	170	58	4.5	480	529	3060.00	3600	7	22316 K	AHX 2316
80	150	36	3	279	319	4284.00	5040	3.05	22217 K	AHX 317
	180	41	3	319	368	4054.50	4770	5.55	21317 K	AHX 317
	180	60	4.5	539	608	2907.00	3420	8.15	22317 K	AHX 2317
85	160	40	3	319	368	4054.50	4770	3.7	22218 K	AHX 318
	160	52.4	3	348	431	2907.00	3420	5	23218 EKW33	AHX 3218
	190	43	4.5	372	441	3672.00	4320	6.4	21318 K	AHX 318
	190	64	6	598	681	2754.00	3240	9.5	22318 K	AHX 2318
90	170	43	4.5	372	441	3672.00	4320	4.6	22219 K	AHX 319
	200	45	4.5	417	480	3442.50	4050	7.4	21319 K	AHX 319
	200	67	6	657	750	2601.00	3060	11	22319 K	AHX 2319
95	165	52	3	358	480	3060.00	3600	5	23120 EKW33	AHX 3120
	180	46	4.5	417	480	3442.50	4050	5.4	22220 K	AHX 320
	180	60.3	4.5	466	588	2601.00	3060	7.3	23220 EKW33	AHX 3220
	215	47	4.5	417	480	3442.50	4050	9.1	21320 K	AHX 320
	215	73	6	799	931	2295.00	2700	14	22320 K	AHX 2320

SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
105	170	45	3	304	431	3289.50	3870	4.45	23022 EKW33	AH 322
	180	56	4.5	421	573	2754.00	3240	6.35	23122 EKW33	AHX 3122
	180	69	3	510	735	2295.00	2700	7.7	24122 EK30W33	AH 24122
	200	53	4.5	549	627	3060.00	3600	7.5	22222 EKW33	AHX 3122
	200	69.8	4.5	588	750	2448.00	2880	10.5	23222 EKW33	AHX 3222
	240	80	7.5	931	1098	2142.00	2520	19.5	22322 EKW33	AHX 2322
115	180	46	3	348	500	3060.00	3600	4.8	23024 EKW33	AHX 3024
	180	60	3	421	657	2601.00	3060	5.95	24024 EK30W33	AH 24024
	200	62	4.5	500	681	2601.00	3060	8.7	23124 EKW33	AHX 3124
	200	80	3	642	931	1989.00	2340	10.8	24124 EK30W33	AH 24124
	215	58	6	617	750	2907.00	3420	9.55	22224 EKW33	AHX 3124
	215	76	4.5	681	911	2142.00	2520	13	23224 EKW33	AHX 3224
	260	86	7.5	946	1098	1989.00	2340	24	22324 EKW33	AHX 2324
125	200	52	4.5	421	598	2754.00	3240	6.75	23026 EKW33	AHX 3026
	200	69	3	529	799	2295.00	2700	8.65	24026 EK30W33	AH 24026
	210	64	4.5	549	764	2448.00	2880	9.6	23126 EKW33	AHX 3126
	210	80	3	666	980	1836.00	2160	11.7	24126 EK30W33	AH 24126
	230	64	6	720	911	2754.00	3240	11.6	22226 EKW33	AHX 3126
	230	80	4.5	764	1039	1989.00	2340	15.5	23226 EKW33	AHX 3226
	280	93	9	1098	1294	1836.00	2160	30.5	22326 EKW33	AHX 2326
135	210	53	4.5	456	666	2601.00	3060	7.35	23028 EKW33	AHX 3028
	210	69	3	559	882	2142.00	2520	9.2	24028 EK30W33	AH 24028
	225	68	4.5	617	882	2142.00	2520	11.5	23128 EKW33	AHX 3128
	225	85	4.5	750	1137	1836.00	2160	14.3	24128 EK30W33	AH 24128
	250	68	6	696	882	2448.00	2880	15	22228 EKW33	AHX 3128
	250	88	6	897	1225	1836.00	2160	20.5	23228 EKW33	AHX 3228
	300	102	9	1264	1529	1683.00	1980	38	22328 EKW33	AHX 2328
145	225	56	4.5	500	735	2448.00	2880	8.85	23030 EKW33	AHX 3030
	225	75	3	642	1019	1989.00	2340	11.3	24030 EK30W33	AH 24030
	250	80	6	813	1176	1989.00	2340	17	23130 EKW33	AHX 3130
	250	100	4.5	1000	1499	1683.00	1980	21	24130 EK30W33	AH 24130
	270	73	7.5	833	1058	2295.00	2700	19	22230 EKW33	AHX 3130
	270	96	6	1058	1431	1683.00	1980	26	23230 EKW33	AHX 3230
	320	108	9	1431	1725	1530.00	1800	45.5	22330 EKW33	AHX 2330
150	240	60	6	573	862	2295.00	2700	11.5	23032 EKW33	AH 3032
	240	80	4.5	735	1176	1836.00	2160	14.8	24032 EK30W33	AH 24032
	270	86	7.5	960	1343	1836.00	2160	23	23132 EKW33	AH 3132
	270	109	4.5	1156	1725	1453.50	1710	28.5	24132 EK30W33	AH 24132
	290	80	7.5	980	1264	2142.00	2520	25	22232 EKW33	AH 3132
	290	104	7.5	1196	1627	1683.00	1980	34.5	23232 EKW33	AH 3232
	340	114	9	1568	1921	1453.50	1710	56	22332 EKW33	AH 2332

SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
160	260	67	6	696	1039	2142.00	2520	15	23034 EK30W33	AH 3034
	260	90	4.5	911	1431	1836.00	2160	20	24034 EK30W33	AH 24034
	280	88	7.5	1019	1470	1836.00	2160	25	23134 EK30W33	AH 3134
	280	109	4.5	1196	1823	1453.50	1710	30	24134 EK30W33	AH 24134
	310	86	9	1098	1431	1989.00	2340	31	22234 EKW33	AH 3134
	310	110	7.5	1372	1891	1530.00	1800	41	23234 EKW33	AH 3234
	360	120	9	1725	2117	1377.00	1620	65	22334 EKW33	AH 2334
170	280	74	7.5	813	1225	1989.00	2340	19.3	23036 EKW33	AH 3036
	280	100	4.5	1058	1695	1683.00	1980	25.7	24036 EK30W33	AH 24036
	300	96	7.5	1176	1725	1683.00	1980	32	23136 EKW33	AH 3136
	300	118	6	1372	2117	1300.50	1530	37	24136 EK30W33	AH 24136
	320	86	9	1156	1529	1989.00	2340	32.5	22236 EKW33	AH 2236
	320	112	7.5	1470	2078	1453.50	1710	43.5	23236 EKW33	AH 3236
	380	126	12	1960	2401	1300.50	1530	76	22336 EKW33	AH 2336
180	290	75	7.5	848	1313	1836.00	2160	21	23038 EKW33	AH 3038
	290	100	4.5	1098	1764	1530.00	1800	27.5	24038 EK30W33	AH 24038
	320	104	7.5	1343	2038	1530.00	1800	38.5	23138 EKW33	AH 3138
	320	128	6	1568	2450	1224.00	1440	46.5	24138 EK30W33	AH 24138
	340	92	9	1245	1666	1836.00	2160	39.5	22238 EKW33	AH 2238
	340	120	9	1627	2352	1377.00	1620	52.5	23238 EKW33	AH 3238
	400	132	12	2078	2597	1224.00	1440	87.5	22338 EKW33	AH 2338
190	310	82	7.5	980	1499	1683.00	1980	26.3	23040 EKW33	AH 3040
	310	109	6	1264	2078	1453.50	1710	34.5	24040 EK30W33	AH 24040
	340	112	9	1568	2313	1453.50	1710	48.5	23140 EKW33	AH 3140
	340	140	6	1764	2744	1147.50	1350	57.5	24140 EK30W33	AH 24140
	360	98	9	1431	1891	1683.00	1980	47	22240 EKW33	AH 2240
	360	128	9	1823	2646	1300.50	1530	63	23240 EKW33	AH 3240
	420	138	12	2274	2842	1147.50	1350	100	22340 EKW33	AH 2340
200	340	90	7.5	1196	1823	1530.00	1800	36.5	23044 EKW33	AOH 3044
	340	118	6	1529	2548	1300.50	1530	47.5	24044 EK30W33	AOH 24044
	370	120	9	1764	2695	1300.50	1530	61.5	23144 EKW33	AOH 3144
	370	150	6	2078	3283	1071.00	1260	76	24144 EK30W33	AOH 24144
	400	108	9	1725	2313	1530.00	1800	68	22244 EKW33	AOH 2244
	400	144	9	2313	3381	1147.50	1350	93	23244 EKW33	AOH 2344
	460	145	12	2646	3381	1071.00	1260	130	22344 EKW33	AOH 2344
220	360	92	7.5	1264	2038	1453.50	1710	40.5	23048 EKW33	AOH 3048
	360	118	6	1568	2646	1224.00	1440	50.5	24048 EK30W33	AOH 24048
	400	128	9	2038	3136	1224.00	1440	76.5	23148 EKW33	AOH 3148
	400	160	6	2352	3822	994.50	1170	91.5	24148 EK30W33	AOH 24148
	440	120	12	2156	2940	1377.00	1620	95	22248 EKW33	AOH 2248
	440	160	12	2842	4214	994.50	1170	120	23248 EKW33	AOH 2348
	500	155	12	3038	3920	994.50	1170	165	22348 EKW33	AOH 2348

SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
240	400	104	9	1568	2499	1300.50	1530	56.5	23052 EKW33	AOH 3052
	400	140	6	1999	3381	1071.00	1260	75	24052 EK30W33	AOH 24052
	440	144	9	2499	3822	1071.00	1260	105	23152 EKW33	AOH 3152
	440	180	7.5	2940	4704	918.00	1080	120	24152 EK30W33	AOH 24152
	480	130	12	2597	3479	1224.00	1440	120	22252 EKW33	AOH 2252
	480	174	12	3185	4655	918.00	1080	155	23252 EKW33	AOH 2352
	540	165	12	3479	4459	841.50	990	205	22352 EKW33	AOH 2352
260	420	106	9	1695	2793	1224.00	1440	62	23056 EKW33	AOH 3056
	420	140	6	2117	3724	1071.00	1260	79	24056 EK30W33	AOH 24056
	460	146	9	2597	4165	994.50	1170	110	23156 EKW33	AOH 3156
	460	180	7.5	3038	4998	841.50	990	130	24156 EK30W33	AOH 24156
	500	130	12	2646	3675	1147.50	1350	125	22256 EKW33	AOH 2256
	500	176	12	3185	4802	841.50	990	160	23256 EKW33	AOH 2356
	580	175	12	3920	5096	841.50	990	245	22356 EKW33	AOH 2356
280	460	118	9	2078	3381	1147.50	1350	82.5	23060 EKW33	AOH 3060
	460	160	7.5	2646	4655	918.00	1080	110	24060 EK30W33	AOH 24060
	500	160	9	3136	4998	918.00	1080	140	23160 EKW33	AOH 3160
	500	200	7.5	3675	6174	765.00	900	180	24160 EK30W33	AOH 24160
	540	140	12	3087	4165	1071.00	1260	155	22260 EKW33	AOH 2260
	540	192	12	3822	5733	765.00	900	200	23260 EKW33	AOH 3260
300	480	121	9	2195	3724	1071.00	1260	89	23064 EKW33	AOH 3064
	480	160	7.5	2793	4998	918.00	1080	115	24064 EK30W33	AOH 24064
	540	176	12	3675	5880	841.50	990	175	23164 EKW33	AOH 3164
	540	218	9	4165	6958	688.50	810	225	24164 EK30W33	AOH 24164
	580	150	12	3528	4802	994.50	1170	185	22264 EKW33	AOH 2264
	580	208	12	4312	6566	726.75	855	250	23264 EKW33	AOH 3264
320	520	133	12	2646	4459	994.50	1170	120	23068 EKW33	AOH 3068
	520	180	9	3381	6076	841.50	990	160	24068 EK30W33	AOH 24068
	580	190	12	4165	6664	765.00	900	225	23168 EKW33	AOH 3168
	580	243	9	5194	8477	650.25	765	295	24168 EK30W33	AOH 24168
	620	224	12	4998	7644	612.00	720	315	23268 EKW33	AOH 3268
340	540	134	12	2695	4704	918.00	1080	125	23072 EKW33	AOH 3072
	540	180	9	3479	6419	765.00	900	165	24072 EK30W33	AOH 24072
	600	192	12	4214	6811	765.00	900	235	23172 EKW33	AOH 3172
	600	243	9	5488	9114	612.00	720	295	24172 EK30W33	AOH 24172
	650	170	12	4214	6076	650.25	765	275	22272 EKW33	AOH 3172
	650	232	12	5292	8134	573.75	675	345	23272 EKW33	AOH 3272
360	560	135	12	2842	4900	918.00	1080	135	23076 EKW33	AOH 3076
	560	180	9	3528	6664	726.75	855	170	24076 EK30W33	AOH 24076
	620	194	12	4312	6958	765.00	900	250	23176 EKW33	AOH 3176
	620	243	9	5586	9604	650.25	765	325	24176 EK30W33	AOH 24176
	680	240	12	5733	8967	573.75	675	390	23276 EKW33	AOH 3276

SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
380	600	148	12	3185	5586	841.50	990	165	23080 EKW33	AOH 3080
	600	200	12	4214	7840	688.50	810	220	24080 EK30W33	AOH 24080
	650	200	12	4557	7497	726.75	855	290	23180 EKW33	AOH 3180
	650	250	12	6076	10388	612.00	720	365	24180 EK30W33	AOH 24180
	720	256	12	6419	10192	512.55	603	470	23280 EKW33	AOH 3280
	820	243	12	7350	10192	573.75	675	675	22380 EKW33	AOH 3280
400	620	150	12	3332	5880	841.50	990	175	23084 EKW33	AOH 3084
	620	200	12	4312	8134	688.50	810	230	24084 EK30W33	AOH 24084
	700	224	12	5488	9114	688.50	810	375	23184 EKW33	AOH 3184
	700	280	12	7203	12348	535.50	630	470	24184 EK30W33	AOH 24184
	760	272	12	7203	11368	481.95	567	550	23284 EKW33	AOH 3284
420	650	157	12	3577	6419	765.00	900	200	23088 EKW33	AOHX 3088
	650	212	12	4704	8967	650.25	765	275	24088 EK30W33	AOH 24088
	720	226	12	5880	9800	650.25	765	380	23188 EKW33	AOHX 3188
	720	280	12	7350	12936	535.50	630	490	24188 EK30W33	AOH 24188
	790	280	12	7644	12250	459.00	540	620	23288 EKW33	AOHX 3288
440	680	163	12	3822	6811	726.75	855	225	23092 EKW33	AOHX 3092
	680	218	12	5096	9800	612.00	720	300	24092 EK30W33	AOH 24092
	760	240	12	6272	10584	612.00	720	465	23192 EKW33	AOHX 3192
	760	300	12	8134	14308	512.55	603	590	24192 EK30W33	AOH 24192
	830	296	12	8330	13426	428.40	504	725	23292 EKW33	AOHX 3292
460	700	165	12	3822	6664	726.75	855	235	23096 EKW33	AOHX 3096
	700	218	12	5194	10192	573.75	675	310	24096 EK30W33	AOH 24096
	790	248	12	6811	11760	573.75	675	515	23196 EKW33	AOHX 3196
	790	308	12	8820	15288	481.95	567	635	24196 EK30W33	AOH 24196
	870	310	12	9114	14700	405.45	477	860	23296 EKW33	AOHX 3296
480	720	167	12	4067	7644	688.50	810	250	230/500 EKW33	AOHX 30/500
	720	218	12	5390	10780	535.50	630	325	240/500 EK30W33	AOH 240/500
	830	264	12	7497	12642	535.50	630	610	231/500 EKW33	AOHX 31/500
	830	325	12	9604	16660	459.00	540	735	241/500 EK30W33	AOH 241/500
	920	336	12	10388	16954	382.50	450	1020	232/500 EKW33	AOHX 32/500
500	780	185	12	4998	9114	612.00	720	365	230/530 EKW33	AOH 30/530
	780	250	12	6566	12936	512.55	603	455	240/530 EK30W33	AOH 240/530
	870	272	12	7987	13720	512.55	603	720	231/530 EKW33	AOH 31/530
	870	335	12	10388	18620	428.40	504	885	241/530 EK30W33	AOH 241/530
	980	355	12	10878	19992	367.20	432	1290	232/530 EKW33	AOH 32/530
530	820	195	12	4480	9180	540	675	430	230/560 EKW33	AOH 30/560
	820	258	12	5880	13140	453.6	567	515	240/560 EK30W33	AOH 240/560
	920	280	12	7320	14400	453.6	567	850	231/560 EKW33	AOH 31/560
	920	355	12	9600	19440	360	450	1060	241/560 EK30W33	AOH 241/560
	1030	365	12	9200	19800	309.6	387	1500	232/560 EKW33	AOH 32/560
570	870	200	12	4800	10260	504	630	480	230/600 EKW33	AOH 30/600
	870	272	12	6520	15300	403.2	504	600	240/600 EK30W33	AOH 240/600
	980	300	12	8160	16200	403.2	504	1010	231/600 EKW33	AOH 31/600

SPHERICAL ROLLER BEARINGS WITH A WITHDRAWAL SLEEVE

Size				Load factor		Limiting speed (rpm)		Weight (kg)	Marking	
d (mm)	D (mm)	B (mm)	K (mm)	Dynamic	Static	Bearing lubricant			Bearing	Withdrawal sleeve
						Bearing grease	Bearing oil			
570	980	375	12	9200	21240	345.6	432	1290	241/600 EK30W33	AOH 241/600
	1090	388	12	10480	22950	288	360	1760	232/600 EKW33	AOH 32/600
600	920	212	12	5360	11250	482.4	603	575	230/630 EKW33	AOH 30/630
	920	290	12	7040	16200	381.6	477	730	240/630 EK30W33	AOH 240/630
	1030	315	12	8400	18720	381.6	477	1190	231/630 EKW33	AOH 31/630
	1030	400	12	10160	24300	324	405	1500	241/630 EK30W33	AOH 241/630
630	980	230	12	6120	13140	432	540	720	230/670 EKW33	AOH 30/670
	980	308	12	8000	18360	360	450	900	240/670 EK30W33	AOH 240/670
	1030	315	12	8400	18720	381.6	477	1430	231/670 EKW33	AOH 31/670
	1090	412	12	11040	26100	288	360	1730	241/670 EK30W33	AOH 241/670
	1220	438	12	12320	27450	259.2	324	2500	232/670 EKW33	AOH 32/670
670	1030	236	12	6640	14670	403.2	504	800	230/710 EKW33	AOH 30/710
	1030	315	12	8480	20520	324	405	1010	240/710 EK30W33	AOH 240/710
	1150	345	12	9760	23400	324	405	1650	231/710 EKW33	AOH 31/710
	1150	438	12	12160	29250	273.6	342	2040	241/710 EK30W33	AOH 241/710
	1280	450	12	14080	31050	230.4	288	2810	232/710 EKW33	AOH 32/710
710	1090	250	12	7720	16740	381.6	477	950	230/750 EKW33	AOH 30/750
	1090	335	12	9440	22500	309.6	387	1200	240/750 EK30W33	AOH 240/750
	1220	365	12	11040	26100	309.6	387	1930	231/750 EKW33	AOH 31/750
	1220	475	12	13840	33750	259.2	324	2280	241/750 EK30W33	AOH 241/750
	1360	475	12	14960	32850	216	270	3280	232/750 EKW33	AOH 32/750
750	1150	258	12	8000	18000	345.6	432	1100	230/800 EKW33	AOH 30/800
	1150	345	12	10320	25650	288	360	1380	240/800 EK30W33	AOH 240/800
	1280	375	12	11840	28350	288	360	2200	231/800 EK30W33	AOH 31/800
	1280	475	12	14720	36450	230.4	288	2540	241/800 EKW33	AOH 241/800
800	1220	272	12	7496	19440	324	405	1250	230/850 EKW33	AOH 30/850
	1220	365	12	10160	28350	259.2	324	1670	240/850 EK30W33	AOH 240/850
	1360	400	12	12880	31050	259.2	324	2500	231/850 EKW33	AOH 31/850
	1360	500	12	16160	40500	216	270	3050	241/850 EK30W33	AOH 241/850
850	1280	280	12	8080	20880	288	360	1450	230/900 EKW33	AOH 30/900
	1280	375	12	10880	31050	244.8	306	1850	240/900 EK30W33	AOH 240/900
	1420	515	12	17120	44100	201.6	252	3700	241/900 EK30W33	AOH 241/900
900	1360	300	12	9600	25650	273.6	342	1720	230/950 EKW33	AOH 30/950
	1360	412	12	11840	35100	216	270	2300	240/950 EK30W33	AOH 240/950
	1500	545	12	19120	49500	187.2	234	3950	241/950 EK30W33	AOH 241/950
950	1420	308	12	10160	27450	259.2	324	1900	230/1000 EKW33	AOH 30/1000
	1420	412	12	12320	36450	201.6	252	2500	240/1000 EK30W33	AOH 240/1000
	1580	462	12	17120	43200	201.6	252	3950	231/1000 EKW33	AOH 31/1000
	1580	580	12	21360	55800	172.8	216	4800	241/1000 EK30W33	AOH 241/1000
1000	1500	325	12	11040	30600	230.4	288	2600	230/1060 EKW33	AOH 30/1060
	1500	438	12	13840	40950	187.2	234	2950	240/1060 EK30W33	AOH 240/1060

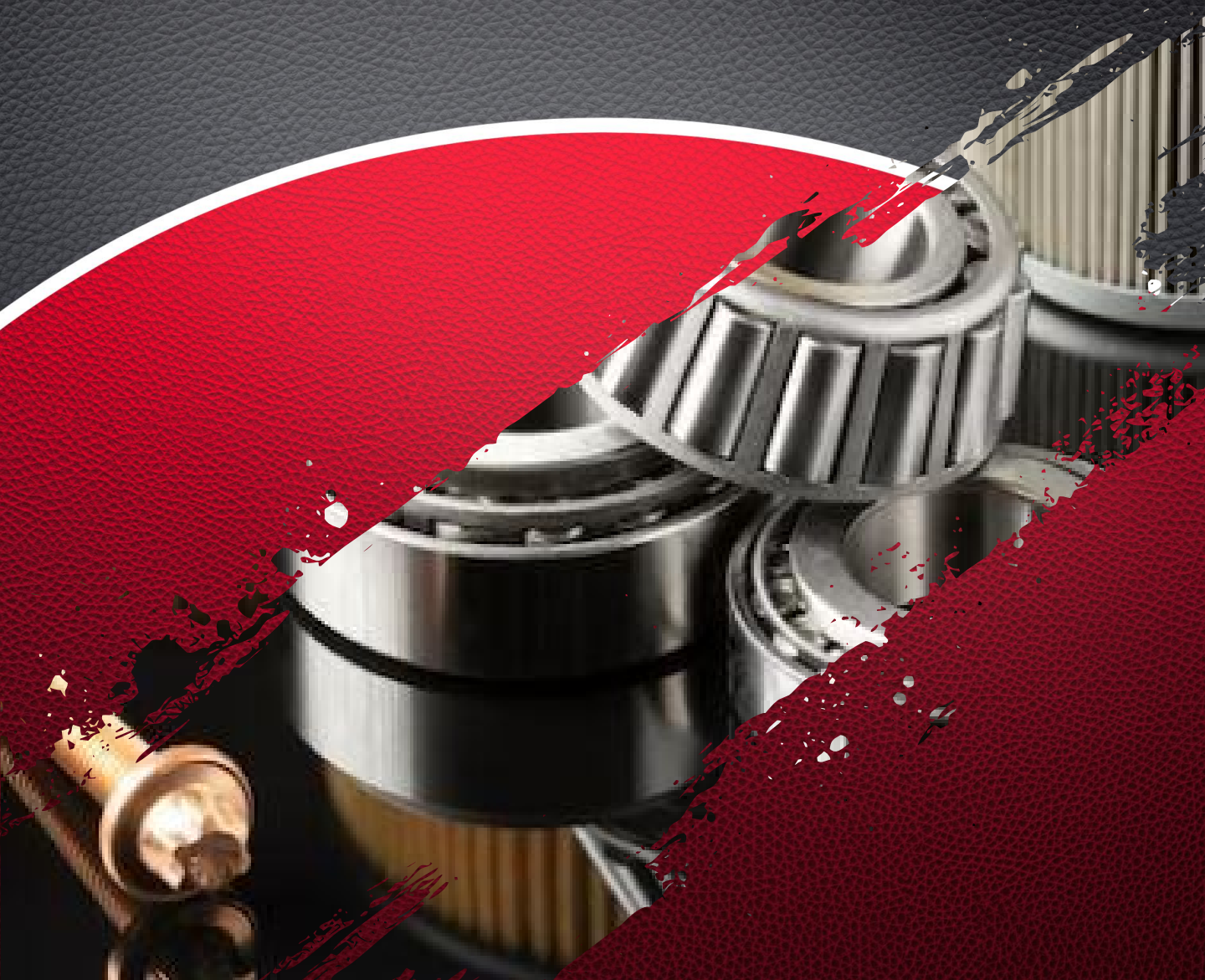
TAPERED ROLLER BEARINGS

Tapered Roller Bearings

An ideal solution for combined loads. These bearings effectively handle both significant radial and unidirectional axial forces. Their design, featuring tapered raceways and rollers, provides high load capacity and operational stability.

Key Features:

- High radial and thrust load capacity
- Robust and reliable construction
- Effective performance under combined loads



TAPERED ROLLER BEARINGS



SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
15	42	14.25	13	11	22	19	13770	16200	0.095	30302
17	40	13.25	12	11	18	18	13770	16200	0.075	30203
	47	15.25	14	12	27	24	12240	14400	0.13	30303
	47	20.25	19	16	34	32	12240	14400	0.17	32303
20	42	15	15	12	23	26	12240	14400	0.097	32004
	47	15.25	14	12	27	27	11475	13500	0.12	30204
	52	16.25	15	13	33	31	10710	12600	0.17	30304
	52	22.25	21	18	43	44	10710	12600	0.23	32304
22	44	15	15	11.5	24	28	11475	13500	0.1	320/22
25	47	15	15	11.5	26	31	10710	12600	0.11	32005
	52	16.25	15	13	30	32	9945	11700	0.15	30205
	52	19.25	18	15	35	43	9945	11700	0.19	32205
	52	19.25	18	16	35	43	9945	11700	0.19	32205-A
	52	22	22	18	46	54	9945	11700	0.23	33205
	62	18.25	17	15	43	42	9180	10800	0.26	30305
	62	18.25	17	13	37	39	8415	9900	0.26	31305
	62	25.25	24	20	59	61	9180	10800	0.36	32305
28	52	16	16	12	31	37	9945	11700	0.15	320/28
	58	17.25	16	14	37	40	9180	10800	0.25	302/28
	58	20.25	19	16	41	49	9180	10800	0.25	322/28
30	55	17	17	13	35	43	9180	10800	0.17	32006
	62	17.25	16	14	39	43	8415	9900	0.23	30206
	62	21.25	20	13	49	55	8415	9900	0.28	32206
	62	25	25	14	63	75	8415	9900	0.37	33206
	72	20.75	19	17	55	54	7650	9000	0.39	30306
	72	20.75	19	17	46	49	7268	8550	0.39	31306
	72	28.75	27	19.5	75	83	7650	9000	0.55	32306
32	58	17	17	13	36	45	8415	9900	0.19	320/32
35	62	18	18	14	42	52	8415	9900	0.22	32007
	72	18.25	17	15	50	54	7268	8550	0.32	30207
	72	24.25	23	19	64	76	7268	8550	0.43	32207
	72	28	28	22	82	103	7268	8550	0.56	33207
	80	22.75	21	18	70	72	6885	8100	0.52	30307
	80	22.75	21	25	60	65	6503	7650	0.52	31307
	80	32.75	31	25	93	103	6885	8100	0.73	32307
40	68	19	19	14.5	51	69	7268	8550	0.27	32008
	75	26	26	20.5	77	101	6885	8100	0.51	33108
	80	19.75	18	16	60	66	6503	7650	0.42	30208
	80	24.75	23	19	77	84	6503	7650	0.53	32208
	80	32	32	25	102	129	6503	7650	0.77	33208
	90	25.25	23	20	84	93	6120	7200	0.72	30308
	90	25.25	23	17	83	79	5738	6750	0.72	31308
	90	35.25	33	27	114	137	6120	7200	1	32308

SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
45	75	20	20	15.5	57	78	6503	7650	0.34	32009
	80	26	26	20.5	94	111	6120	7200	0.56	33109
	85	20.75	19	16	64	75	6120	7200	0.48	30209
	85	24.75	23	19	89	96	6120	7200	0.58	32209
	85	32	32	25	105	140	5738	6750	0.82	33209
	100	27.25	25	22	105	117	5355	6300	0.97	30309
	100	27.25	25	18	103	100	5126	6030	0.95	31309
	100	38.25	36	30	137	166	5355	6300	1.35	32309
50	80	20	20	15.5	59	86	6120	7200	0.37	32010
	80	24	24	19	67	100	6120	7200	0.45	33010
	85	26	26	20	84	119	5738	6750	0.59	33110
	90	21.75	20	17	75	89	5738	6750	0.54	30210
	90	24.75	23	19	80	98	5738	6750	0.61	32210
	90	32	32	24.5	111	156	5355	6300	0.9	33210
	110	29.25	27	23	140	137	4820	5670	1.25	30310
	110	29.25	27	19	119	117	4590	5400	1.2	31310
	110	42.25	40	33	179	211	4590	5400	1.85	32310
55	90	23	23	17.5	79	113	5355	6300	0.55	32011
	90	27	27	21	101	134	5355	6300	0.67	33011
	95	30	30	23	107	152	5126	6030	0.86	33111
	100	22.75	21	18	101	103	5126	6030	0.7	30211
	100	26.75	25	21	103	126	5126	6030	0.83	32211
	100	35	35	27	135	186	4820	5670	1.2	33211
	120	31.5	29	25	162	159	4284	5040	1.55	30311
	120	31.5	29	21	118	134	4284	5040	1.55	31311
	120	45.5	43	35	211	254	4284	5040	2.5	32311
60	95	27	27	21	103	140	5126	6030	0.71	33012
	100	30	30	23	114	166	4820	5670	0.92	33112
	110	23.75	22	19	109	111	4590	5400	0.88	30212
	110	29.75	28	24	122	156	4590	5400	1.15	32212
	110	38	38	29	164	231	4590	5400	1.6	33212
	130	33.5	31	26	164	192	4055	4770	1.95	30312
	130	33.5	31	22	142	162	4055	4770	1.9	31312
		130	48.5	46	37	224	284	4055	4770	2.85
65	100	23	23	17.5	94	124	4590	5400	0.63	32013
	100	27	27	21	107	149	4820	5670	0.78	33013
	110	34	34	26.5	139	203	4284	5040	1.3	33113
	120	24.75	23	20	129	131	4284	5040	1.15	30213
	120	32.75	31	27	148	189	4284	5040	1.5	32213
	120	41	41	32	190	264	4055	4770	2.05	33213
	140	36	33	28	190	223	3672	4320	2.4	30313
	140	36	48	39	161	189	3672	4320	2.35	31313
	140	51	37	29	241	338	3456	4320	3.45	32313

SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
70	110	25	25	19	99	149	4284	5040	0.84	32014
	110	31	31	25.5	127	192	4284	5040	1.1	33014
	120	37	37	29	168	245	4055	4770	1.7	33114
	125	26.25	24	21	122	152	4055	4770	1.25	30214
	125	33.25	31	27	153	203	4055	4770	1.6	32214
	125	41	41	32	197	279	3825	4500	2.1	33214
	150	38	35	30	215	254	3443	4050	2.9	30314
	150	38	35	25	183	215	3443	4050	2.95	31314
	150	54	51	42	291	372	3443	4050	4.3	32314
75	105	20	20	16	69	113	4536	5670	0.52	32915
	115	25	25	19	103	159	4055	4770	0.9	32015
	115	31	31	25.5	131	223	4055	4770	1.15	33015
	125	37	37	29	172	259	3825	4500	1.8	33115
	130	27.25	25	22	137	172	3825	4500	1.4	30215
	130	33.25	31	27	157	207	3825	4500	1.7	32215
	130	41	41	31	204	294	3672	4320	2.25	33215
	160	40	37	31	241	284	3290	3870	3.45	30315
	160	40	37	26	204	240	3290	3870	3.5	31315
80	125	29	29	22	135	211	3825	4500	1.3	32016
	125	36	36	29.5	164	279	3825	4500	1.65	33016
	130	37	37	29	175	274	3672	4320	1.9	33116
	140	28.25	26	22	148	179	3672	4320	1.6	30216
	140	35.25	33	28	183	240	3443	4050	2.05	32216
	140	46	46	35	246	367	3443	4050	2.9	33216
	170	42.5	39	33	264	313	3290	3870	4.1	30316
	170	42.5	39	27	219	259	3060	3600	4.05	31316
	170	61.5	58	48	372	490	3290	3870	6.2	32316
85	130	29	29	22	137	219	3672	4320	1.35	32017
	130	36	36	29.5	179	303	3672	4320	1.75	33017
	140	41	41	32	215	333	3443	4050	2.45	33117
	150	30.5	28	24	172	215	3290	3870	2.05	30217
	150	38.5	36	30	207	279	3290	3870	2.6	32217
	150	49	49	37	280	421	3290	3870	3.7	33217
	180	44.5	41	34	296	357	3060	3600	4.85	30317
	180	44.5	41	28	237	279	2907	3420	4.6	31317
	180	63.5	60	49	394	519	3060	3600	6.85	32317
90	140	32	32	24	164	264	3290	3870	1.75	32018
	140	39	39	32.5	211	347	3443	4050	2.2	33018
	150	45	45	35	246	382	3290	3870	3.1	33118
	160	32.5	30	26	190	240	3060	3600	2.55	30218
	160	42.5	40	34	246	333	3060	3600	3.35	32218
	190	46.5	43	36	323	392	3060	3600	5.65	30318
	190	46.5	43	30	258	308	2601	3060	5.9	31318
	190	67.5	64	53	447	597	3060	3600	8.4	32318

SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
95	145	32	32	24	164	264	3290	3870	1.8	32019
	145	39	39	32.5	215	367	3290	3870	2.3	33019
	170	34.5	32	27	211	269	2907	3420	3	30219
	170	45.5	43	37	275	382	2907	3420	4.05	32219
	200	49.5	45	38	323	382	2601	3060	6.7	30319
	200	49.5	45	32	286	347	2601	3060	6.95	31319
	200	71.5	67	55	491	656	2601	3060	11	32319
100	140	25	25	20	116	199	3672	4320	1.15	32920
	150	32	32	24	168	274	3060	3600	1.9	32020
	150	39	39	32.5	219	382	3060	3600	2.4	33020
	180	37	34	34	241	313	2754	3240	3.65	30220
	180	49	46	46	312	431	2754	3240	4.9	32220
	180	63	63	63	420	641	2754	3240	6.95	33220
	215	51.5	47	47	394	480	2448	2880	8.05	30320
	215	56.5	51	51	366	455	2295	2700	8.6	31320
	215	77.5	73	73	560	764	2295	2700	12.5	32320
105	160	35	35	35	197	328	2907	3420	2.4	32021
	160	43	43	43	241	421	2907	3420	3.05	33021
	190	39	36	36	264	347	2601	3060	4.25	30221
	190	53	50	50	350	499	2601	3060	6	32221
	225	81.5	77	77	592	798	2295	2700	14.5	32321
110	150	25	25	25	122	219	3290	3870	1.25	32922
	170	38	38	38	228	382	2754	3240	3.05	32022
	170	47	47	47	275	490	2754	3240	3.85	33022
	180	56	56	56	361	617	2601	3060	5.55	33122
	200	41	38	38	301	396	2448	2880	5.1	30222
	200	56	53	53	394	558	2448	2880	7.1	32222
	240	54.5	50	42	463	573	2142	2520	11	30322
	240	63	57	38	447	573	2142	2520	12	31322
	240	84.5	80	65	614	813	2142	2520	17	32322
120	165	29	29	23	161	298	2907	3420	1.8	32924
	180	38	38	29	237	406	2601	3060	3.25	32024
	180	48	48	38	286	529	2601	3060	4.2	33024
	215	43.5	40	34	334	455	2295	2700	6.15	30224
	215	61.5	58	50	458	681	2295	2700	9.15	32224
	260	59.5	55	46	549	695	1989	2340	14	30324
	260	68	62	42	528	681	1836	2160	15.5	31324
	260	90.5	86	69	776	1097	1989	2340	21.5	32324
130	180	32	32	25	194	357	2754	3240	2.4	32926
	200	45	45	34	307	529	2295	2700	4.95	32026
	230	43.75	40	34	361	480	2142	2520	7.6	30226
	230	67.75	64	54	539	813	2142	2520	11.5	32226
	280	63.75	58	49	614	784	1836	2160	17	30326
	280	72	66	44	592	764	1836	2160	18.5	31326

SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
140	190	32	32	25	200	382	2601	3060	2.55	32928
	210	45	45	34	323	573	2142	2520	5.25	32028
	250	45.75	42	36	409	558	1989	2340	8.65	30228
	250	71.75	68	58	631	980	1989	2340	14.5	32228
	300	77	70	47	679	882	1683	1980	24.5	31328
150	225	48	48	36	361	641	1989	2340	6.35	32030
	225	59	59	46	447	847	1989	2340	8.15	33030
	270	49	45	38	420	548	1836	2160	11	30230
	270	77	73	60	722	1117	1836	2160	17.5	32230
	320	82	75	50	765	999	1530	1800	29.5	31330
160	240	51	51	38	420	764	1836	2160	7.75	32032
	290	52	48	40	517	720	1683	1980	13	30232
	290	84	80	67	862	1372	1683	1980	25.5	32232
	340	75	68	58	894	1156	1530	1800	29	30332
170	230	38	38	30	280	573	2142	2520	4.5	32934
	260	57	57	43	501	896	1683	1980	10.5	32034
	310	57	52	43	603	847	1530	1800	19	30234
	310	91	86	71	989	1597	1530	1800	28.5	32234
180	250	45	45	34	345	720	1989	2340	6.65	32936
	280	64	64	48	631	1136	1683	1980	14.5	32036
	320	57	52	43	571	798	1530	1800	20	30236
	320	91	86	71	989	1597	1454	1710	29.5	32236
190	260	45	45	34	350	749	1836	2160	7	32938
	290	64	64	48	646	1176	1530	1800	15	32038
	340	60	55	46	706	980	1377	1620	24	30238
200	280	51	51	39	463	931	1683	1980	9.5	32940
	310	70	70	53	733	1342	1454	1710	19.5	32040
	360	64	58	48	776	1097	1301	1530	25	30240
	360	104	98	82	1185	1960	1301	1530	42.5	32240
220	300	51	51	39	474	980	1530	1800	10	32944
	340	76	76	57	879	1626	1301	1530	25.5	32044
	400	72	65	54	970	1372	1224	1440	40	30244
	400	114	108	90	1577	2646	1148	1350	60	32244
240	320	51	51	39	501	1058	1454	1710	11	32948
	360	76	76	57	916	1764	1224	1440	27.5	32048
	440	127	120	100	1901	3283	1071	1260	81.5	32248
260	400	87	87	65	1146	2156	1071	1260	40	32052
	480	137	130	106	2156	3577	918	1080	105	32252
	540	113	102	85	2077	2989	918	1080	110	30352
280	380	63.5	63.5	48	749	1626	1224	1440	20	32956
	420	87	87	65	1185	2312	995	1170	40.5	32056

SINGLE-ROW TAPERED ROLLER BEARINGS (metric series)

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	B (mm)	A (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
300	420	76	76	57	1029	2195	1071	1260	32	32960
	460	100	100	74	1509	2940	918	1080	58	32060
	540	149	140	115	2695	4655	842	990	140	32260
320	440	76	76	57	1058	2312	995	1170	33.5	32964
	480	100	100	74	1509	3038	842	990	64	32064
340	460	76	76	57	1058	2352	995	1170	35	32968
360	480	76	76	57	1097	2499	918	1080	37	32972
	530	80	66	59	1030	1900	500	630	53.2	30672
	540	86	82	63.5	1270	2200	480	600	73.1	31072
400	500	60	57	47	460	950	400	500	25.1	30680
	750	130	115	77	2660	4180	320	430	222	30680-1
420	620	95	90	67	1560	2930	380	480	88.3	31084
	620	95	90	67	1560	2940	380	480	88.3	31084P5
460	860	210	190	160	5590	10100	350	470	512	30692
480	950	250	225	174	6980	12500	310	420	761	30696
500	720	110	100	82	2090	4100	360	450	128	T2GB500
530	670	100	95	82	1590	4500	340	450	81.6	318/530
	710	88	82	62	1560	3150	340	450	81.5	319/530
560	1080	265	235	208	8910	15700	180	270	1063	306/560
630	850	132	132	95	3080	7150	360	450	200	329/630
	920	135	128	94	3520	7450	320	430	289	T3GB630
	920	134	128	94	3410	7100	320	430	286	306/630
680	1000	190	188	140	5580	12500	250	350	486	306/680
710	950	114	106	80	2860	6900	230	320	210	319/710
760	890	78	75	59	1360	3520	130	170	78.3	306/760
850	1030	90	88	64	2200	5900	200	300	140	318/850
900	1180	122	122	87	3850	9000	180	260	325	T3GB900
	1280	190	170	135	6430	14600	95	130	71.8	306/900
1000	1420	210	195	150	8100	18000	160	230	966	306/1000
1270	1465	73	69	51	2100	6920	120	170	71.8	306/1270
	1465	100	100	75	3120	10500	120	170	266	306/1270-1

SINGLE-ROW TAPERED ROLLER BEARINGS PAIRED IN AN "X" CONFIGURATION

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
25	62	36,5	63,112	78,4	9900	10450	0,55	31305 J/DF
30	72	41,5	79,282	98	8550	9025	0,85	31306 J/DF
35	80	45,5	102,9	131,32	7650	8075	1,10	31307 J/DF
40	90	50,5	143,08	159,74	6750	7125	1,50	31308 J/DF
45	100	54,5	176,4	199,92	6030	6365	2,00	31309 J/CDF
50	90	43,5	127,4	179,34	6750	7125	1,10	30210 J/DF
	110	58,5	203,84	235,2	5400	5700	2,6	31310 J/DF
55	90	54	176,4	264,6	6300	6650	1,35	33011/DF03C170
	120	63	204,82	269,5	5040	5320	3,30	31311 J/DF
60	95	46	159,74	240,1	6030	6365	1,90	32012 X/DFC250
	130	67	241,08	328,3	4770	5035	4,10	31312 J/DF
65	120	49,5	223,44	264,6	5040	5320	1,20	30213 J/DF
	140	72	275,38	372,4	4320	4560	5,05	31313 J/DF
70	110	62	215,6	392	5040	5320	2,40	33014/DF
	150	76	312,62	431,2	4050	4275	6,15	31314 J/DF
75	115	62	228,34	445,9	4770	5035	2,40	33015/DF
	125	74	296,94	519,4	4500	4750	3,80	33115/DFC150
	130	54,5	233,24	347,9	4500	4750	2,85	30215 J/DF
	130	66,5	269,5	416,5	4500	4750	3,40	32215 J/DF
	160	80	350,84	480,2	3870	4085	7,25	31315 J/DF
80	125	58	228,34	421,4	4500	4750	2,65	32016 X/DFC165
	140	70,5	312,62	480,2	4050	4275	4,25	32216 J/DF
	170	85	372,4	519,4	3600	3800	8,75	31316 J1/DF
85	130	58	233,24	441	4320	4560	2,80	32017 X/DF
	130	72	301,84	607,6	4320	4560	3,55	33017/DFC240
	150	61	296,94	431,2	3870	4085	4,30	30217 J/DF
	150	77	361,62	558,6	3870	4085	5,45	32217 J/DF
	150	98	485,1	833	3870	4085	7,35	33217/DF
	180	89	404,74	558,6	3420	3610	10,0	31317 J/DF
90	140	64	286,16	529,2	3870	4085	3,65	32018 X/DF
	140	78	361,62	695,8	4050	4275	4,50	33018/DFC150
	160	65	329,28	480,2	3600	3800	5,15	30218 J/DF
	160	85	420,42	666,4	3600	3800	6,90	32218 J/DF
	190	93	447,86	617,4	3060	3230	11,5	31318 J/DF
95	145	78	372,4	720,3	3870	4085	5,00	33019/DF
	170	91	474,32	764,4	3420	3610	8,45	32219 J/DF
	200	99	490,98	695,8	3060	3230	13,0	31319 J/DF

SINGLE-ROW TAPERED ROLLER BEARINGS PAIRED IN AN "X" CONFIGURATION

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
100	150	64	286,16	548,8	3600	3800	3,95	32020 X/DF
	180	74	409,64	627,2	3240	3420	7,60	30220 J/DF
	180	98	528,22	862,4	3240	3420	10,0	32220 J/DF
	215	103	679,14	960,4	2880	3040	16,5	30320J/DFC400
	215	113	631,12	911,4	2700	2850	18,0	31320 XJ/DF
105	160	70	340,06	656,6	3420	3610	5,00	32021 X/DF
110	170	76	393,96	764,4	3240	3420	6,30	32022 X/DF
	180	112	614,46	1225	3060	3230	11,5	33122/DF
	200	82	512,54	784	2880	3040	10,5	30222 J/DF
	200	112	668,36	1117,2	2880	3040	14,5	32222 J/DF
	240	126	765,38	1136,8	2520	2660	26,0	31322 XJ/DF
120	180	76	409,64	813,4	3060	3230	6,75	32024 X/DF
	180	96	485,1	1058,4	3060	3230	8,65	33024/DFC250
	215	87	571,34	896,7	2700	2850	13,0	30224 J/DF
	215	123	776,16	1372	2700	2850	18,5	32224 J/DF
	260	119	948,64	1372	2340	2470	29,5	30324 J/DFC600
	260	136	916,3	1372	2160	2280	38,5	31324 XJ/DF
130	180	64	334,18	720,3	3240	3420	4,95	32926/DF
	200	90	528,22	1058,4	2700	2850	10,0	32026 X/DF
	230	87,5	614,46	960,4	2520	2660	14,5	30226 J/DF
	230	135,5	932,96	1626,8	2520	2660	23,0	32226 J/DF
	280	144	1029	1528,8	2160	2280	40,0	31326 XJ/DF
140	210	90	549,78	1136,8	2520	2660	11,0	32028 X/DF
	250	91,5	706,58	1117,2	2340	2470	18,0	30228 J/DFC100
	250	143,5	1078	1960	2340	2470	29,5	32228 J/DF
	300	154	1166,2	1764	1980	2090	52,5	31328 XJ/DF
150	225	96	631,12	1293,6	2340	2470	13,5	32030 X/DF
	270	154	1225	2234,4	2160	2280	37,0	32230 J/DF
	320	164	1313,2	1999,2	1800	1900	58,5	31330 XJ/DF
160	240	102	722,26	1528,8	2160	2280	16,0	32032 X/DF
	290	104	894,74	1430,8	1980	2090	27,5	30232 J/DF
	290	168	1479,8	2744	1980	2090	48,0	32232 J/DF
170	230	76	474,32	1136,8	2520	2660	9,20	32934/DFC225
	260	114	862,4	1793,4	1980	2090	22,0	32034 X/DF
	310	182	1685,6	3185	1800	1900	59,0	32234 J/DF
180	250	90	592,9	1430,8	2340	2470	14,0	32936/DF
	280	128	1078	2273,6	1800	1900	29,5	32036 X/DF
	320	114	989,8	1597,4	1800	1900	42,0	30236 J/DF
	320	182	1685,6	3185	1710	1805	61,0	32236 J/DF
190	260	90	603,68	1499,4	2160	2280	14,5	32938/DF
	290	128	1097,6	2352	1800	1900	30,5	32038 X/DF
	340	120	1205,4	1960	1620	1710	50,0	30238 J/DFC700

SINGLE-ROW TAPERED ROLLER BEARINGS PAIRED IN AN "X" CONFIGURATION

Size			Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	T (mm)	Dynamic	Static	Bearing lubricant			
					Bearing grease	Bearing oil		
200	310	140	1254,4	2695	1710	1805	39,0	32040 X/DF
	360	128	1313,2	2195,2	1530	1615	52,0	30240 J/DFC570
	360	208	2048,2	3920	1530	1615	88,0	32240 J/DF
	300	102	825,16	1960	1800	1900	21,0	32944/DFC300
	340	152	1509,2	3283	1530	1615	51,0	32044 X/DF
240	360	152	1538,6	3479	1440	1520	54,5	32048 X/DF
260	400	174	1940,4	4312	1260	1330	79,5	32052 X/DF
280	420	174	2009	4655	1170	1235	84,5	32056 X/DF
300	420	152	1754,2	4410	1260	1330	65,5	32960/DF
320	480	200	2587,2	6076	990	1045	125	32064 X/DF



THRUST BALL BEARINGS

Thrust ball bearings are a specialized solution for high axial loads.

Thrust ball bearings are designed to effectively handle significant axial forces acting along the shaft axis. Their design features make them an ideal choice for applications where axial load is predominant and radial load is absent or minimal.

Key Features and Advantages:

- **Focus on Axial Load:** The bearing design, consisting of thrust washers and a cage with balls, is specifically engineered to handle intensive one-directional or two-directional axial forces, ensuring maximum efficiency under these conditions.
- **High Load Capacity and Compactness:** Despite their simple design, thrust ball bearings have high axial load-carrying capacity, providing reliable shaft support with minimal assembly dimensions.
- **Low Friction and High-Speed Stability:** The use of balls as rolling elements minimizes friction, making this bearing type suitable for high-speed applications.
- **Various Designs for Different Tasks:** Bearings are available in designs for handling one-directional (series 50000) and two-directional (series 52000, 53000) axial loads, allowing for the selection of an optimal solution for specific operating conditions.

Areas of Application: Due to their specialization, thrust ball bearings are widely used in vertical shafts, slewing mechanisms, automotive clutches, worm gearboxes, turbines, hydraulic pumps, and other equipment where axial load is predominant.



THRUST BALL BEARINGS



SINGLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	d1 (mm)	D1 (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
3	8	3.5	7.8	3.2	0.79	0.71	27540	32400	0.0009	BA 3
4	10	4	9.8	4.2	0.75	0.71	22950	27000	0.0015	BA 4
5	12	4	11.8	5.2	0.83	0.95	21420	25200	0.0021	BA 5
6	14	5	13.8	6.2	1.74	1.88	18360	21600	0.0035	BA 6
7	17	6	16.8	7.2	2.46	2.84	14535	17100	0.0065	BA 7
8	19	7	18.8	8.2	3.13	3.72	13005	15300	0.0091	BA 8
9	20	7	19.8	9.2	3.06	3.72	12240	14400	0.01	BA 9
10	24	9	24	11	9.75	14.99	9945	11700	0.02	51100
	26	11	26	12	12.45	18.23	8415	9900	0.03	51200
12	26	9	26	13	10.19	16.27	9945	11700	0.022	51101
	28	11	28	14	13.03	20.38	8415	9900	0.034	51201
15	28	9	28	16	10.39	17.93	9180	10800	0.024	51102
	32	12	32	17	16.17	26.46	7650	9000	0.045	51202
17	30	9	30	18	11.17	20.78	9180	10800	0.026	51103
	35	12	35	19	16.86	29.40	7268	8550	0.053	51203
20	35	10	35	21	14.80	28.42	7650	9000	0.039	51104
	40	14	40	22	22.05	39.69	6120	7200	0.082	51204
25	42	11	42	26	18	38	6885	8100	0.06	51105
	47	15	47	27	27	54	5738	6750	0.11	51205
	52	18	52	27	34	59	4820	5670	0.12	51305
	60	24	60	27	54	95	3825	4500	0.34	51405
30	47	11	47	32	19	42	6503	7650	0.069	51106
	52	16	52	32	25	50	5126	6030	0.13	51206
	60	21	60	32	37	70	4055	4770	0.26	51306
	70	28	70	32	71	134	3290	3870	0.52	51406
35	52	12	52	37	20	50	5738	6750	0.08	51107
	62	18	62	37	34	72	4284	5040	0.22	51207
	68	24	68	37	48	95	3443	4050	0.39	51307
	80	32	80	37	85	167	2907	3420	0.74	51407
40	60	13	60	42	25	62	5355	6300	0.12	51108
	68	19	68	42	46	104	4055	4770	0.27	51208
	78	26	78	42	61	120	3290	3870	0.53	51308
	90	36	90	42	110	220	2601	3060	1.1	51408
45	65	14	65	47	26	68	4820	5670	0.15	51109
	73	20	73	47	38	85	3825	4500	0.32	51209
	85	28	85	47	75	150	3060	3600	0.66	51309
	100	39	100	47	127	260	2295	2700	1.42	51409

SINGLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	d1 (mm)	D1 (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
50	70	14	70	52	26	74	4820	5670	0.16	51110
	78	22	78	52	48	114	3443	4050	0.37	51210
	95	31	85	52	87	186	2754	3240	0.94	51310
	110	43	100	52	156	333	2142	2520	2	51410
55	78	16	78	57	30	83	4055	4770	0.24	51111
	90	25	90	57	61	143	3060	3600	0.59	51211
	105	35	105	57	102	220	2448	2880	1.3	51311
	120	48	120	57	174	382	1836	2160	2.55	51411
60	85	17	85	62	41	120	3825	4500	0.3	51112
	95	26	95	62	61	147	2907	3420	0.65	51212
	110	35	110	62	99	220	2295	2700	1.35	51312
	130	51	130	62	195	421	1683	1980	3.1	51412 M
65	90	18	90	67	37	106	3672	4320	0.33	51113
	100	27	100	67	62	160	2754	3240	0.78	51213
	115	36	115	67	104	235	2295	2700	1.5	51313
	140	56	140	68	212	480	1683	1980	4	51413 M
70	95	18	95	72	39	118	3443	4050	0.35	51114
	105	27	105	72	64	170	2754	3240	0.79	51214
	125	40	125	72	132	314	1989	2340	2	51314
	150	60	150	73	229	539	1530	1800	5	51414 M
75	100	19	100	77	43	143	3290	3870	0.4	51115
	110	27	110	77	66	179	2601	3060	0.83	51215
	135	44	135	77	160	382	1836	2160	2.6	51315
	160	65	160	78	246	598	1377	1620	6.75	51415 M
80	105	19	105	82	44	150	3290	3870	0.42	51116
	115	28	115	82	75	204	2601	3060	0.91	51216
	140	44	140	82	156	382	1836	2160	2.7	51316
	170	68	170	83	265	657	1301	1530	7.95	51416 M
85	110	19	110	87	45	160	3290	3870	0.44	51117
	125	31	125	88	96	270	2295	2700	1.2	51217
	150	49	150	88	186	456	1683	1980	3.55	51317
	180	72	177	88	280	735	1224	1440	9.45	51417 M
90	120	22	120	92	58	204	2907	3420	0.65	51118
	135	35	135	93	117	319	2142	2520	1.7	51218
	155	50	155	93	191	490	1683	1980	3.8	51318
	190	77	187	93	301	799	1148	1350	11	51418 M
100	135	25	135	102	83	284	2448	2880	0.97	51120
	150	38	150	103	122	338	1836	2160	2.2	51220
	170	55	170	103	224	598	1454	1710	4.95	51320
	210	85	205	103	364	1039	1071	1260	15	51420 M

SINGLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	d1 (mm)	D1 (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
260	320	45	317	263	233	1078	1148	1350	8.1	51152 M
	360	79	355	264	466	2117	842	990	25	51252 M
	480	175	480	268	1110	4000	-	-	135	51452
280	350	53	347	283	313	1431	995	1170	12	51156 M
	380	80	375	284	484	2274	765	900	26.5	51256 M
300	380	62	376	304	357	1725	842	990	17.5	51160 M
	420	95	415	304	593	2940	650	765	42	51260 M
320	400	63	396	324	364	1823	842	990	19	51164 M
	440	95	435	325	561	2940	612	720	45.5	51264 M
340	420	64	416	344	369	1921	842	990	20.5	51168 M
	460	96	455	345	593	3136	574	675	48.5	51268 M
	540	160	540	345	1040	4300			135	51368
360	440	65	436	364	382	2038	765	900	22	51172 M
	500	110	495	365	726	4067	536	630	70	51272 M
366	440	65	440	370	296	1080	-	-	19.5	BD1B 634132
380	460	36	460	385	186	830	-	-	12.5	351793
	460	65	456	384	389	2156	765	900	23	51176 M
	520	112	515	385	713	4067	536	630	73	51276 M
385	510	110	510	385	618	2500	-	-	66	350550
400	480	65	476	404	395	2234	765	900	24	51180 M
420	500	65	496	424	402	2352	765	900	25.5	51184 M
	580	130	580	426	884	4000	-	-	110	51284
440	520	65	520	445	302	1200	-	-	24	BD1B 634131
	540	80	536	444	516	3185	650	765	42	51188 M
	600	130	600	446	904	4150	-	-	115	51288
460	560	80	556	464	516	3185	612	720	43.5	51192 M
480	580	80	576	484	529	3479	612	720	45.5	51196 M
500	600	80	596	504	542	3528	612	720	47	511/500 M
530	590	36	590	535	178	1000	-	-	12.5	351794
	640	85	636	534	637	4312	675	540	58.5	511/530 M
545	635	65	635	545	251	1020	-	-	33.5	BD1B634141
560	670	67	670	564	475	2400	-	-	45.5	591/560
	670	85	666	564	650	4557	630	504	61	511/560 M
600	710	67	710	604	475	2500	-	-	45.5	591/600
	710	85	706	604	650	4704	630	504	65	511/600 M
	740	90	740	605	637	3400	-	-	84.5	350534
	800	90	800	610	676	3650	-	-	117	350769

SINGLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	d1 (mm)	D1 (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
630	750	95	746	634	714	5292	567	454	84	511/630 M
640	700	55	700	642	168	980	-	-	25	350015
670	800	78	800	675	540	3050	-	-	74	591/670
	800	105	795	675	835	6566	504	403	105	511/670 M
730	850	85	850	730	663	4000	-	-	88	350627 A
750	900	90	900	755	741	4500	-	-	105	591/750
	900	120	900	755	1010	6300	-	-	150	511/750
800	950	90	950	805	761	4800	-	-	110	591/800/351589 A
850	1000	90	1000	855	761	5000	-	-	115	591/850
950	1120	103	1120	956	852	6000	-	-	170	591/950
980	1120	120	1120	985	1010	7350	-	-	170	BD1B 351883
1000	1180	109	1180	1006	936	6700	-	-	200	591/1000/351395
1250	1500	150	1500	1258	1430	11800	-	-	510	351006 A
1380	1540	130	1540	1385	1330	11800	-	-	310	BD1B 351890 A
1400	1630	180	1630	1408	1900	17300	-	-	610	511/1400
1420	1620	100	1620	1420	1040	8800	-	-	320	351346 B
1800	1950	120	1950	1805	1110	11200	-	-	350	510/1800



SINGLE-DIRECTION THRUST BALL BEARINGS WITH A SPHERICAL SEAT WASHER

Size									Load factor		Limiting speed (rpm)		Bearing weight with ring (kg)	Marking	
d (mm)	D (mm)	H1 (mm)	d1 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	E (mm)	Dynamic	Static	Bearing lubricant				
											Bearing grease	Bearing oil		Bearing	Ring
12	28	13	28	14	20	30	11.4	3.5	13	20	8415	9900	0.045	53201	U 201
15	32	15	32	17	24	35	13.3	4	16	26	7650	9000	0.063	53202	U 202
17	35	15	35	19	26	38	13.2	4	17	29	7268	8550	0.071	53203	U 203
20	40	17	40	20	30	42	14.73	5	22	40	6120	7200	0.1	53204	U 204
25	47	19	47	27	36	50	16.72	5.5	27	54	5738	6750	0.15	53205	U 205
30	52	20	52	32	42	55	17.8	5.5	25	50	5126	6030	0.18	53206	U 206
	60	25	60	32	45	62	22.6	7	37	70	4055	4770	0.33	53306	U 306
35	62	22	62	37	48	65	19.87	7.5	34	72	4284	5040	0.28	53207	U 207
	68	28	68	37	52	72	25.6	7	48	95	3443	4050	0.46	53307	U 307
40	68	23	68	42	50	72	20.3	7	46	104	4055	4770	0.35	53208	U 208
	78	31	78	42	60	82	28.5	8.5	61	120	3290	3870	0.67	53308	U 308
	90	42	90	42	65	95	38.2	12	110	220	2601	3060	1.35	53408	U 408
45	73	24	73	47	60	78	21.3	7.5	38	85	3825	4500	0.39	53209	U 209
	85	33	85	47	65	90	30.13	10	75	150	3060	3600	0.83	53309	U 309
50	78	26	78	52	62	82	23.49	7.5	48	114	3443	4050	0.47	53210	U 210
	95	37	95	52	72	100	34.3	11	87	186	2754	3240	1.2	53310	U 310
	110	50	110	52	80	115	45.6	14	156	333	2142	2520	2.31	53410	U 410
55	90	30	90	57	72	95	27.35	9	61	143	3060	3600	0.75	53211	U 211
	105	42	105	57	80	110	39.3	11.5	102	220	2448	2880	1.68	53311	U 311
	120	55	120	57	88	125	50.5	15.5	174	382	1836	2160	3.08	53411	U 411
60	95	31	95	62	78	100	28.02	9	61	147	2907	3420	0.82	53212	U 212
	110	42	110	62	85	115	38.3	11.5	99	220	2295	2700	1.71	53312	U 312
	130	58	130	62	95	135	54	16	195	421	1683	1980	3.8	53412 M	U 412
65	100	32	100	67	82	105	28.7	9	62	160	2754	3240	0.91	53213	U 213
	115	43	115	67	90	120	39.4	12.5	104	235	2295	2700	1.89	53313	U 313
70	105	32	105	72	88	110	28.8	9	64	170	2754	3240	0.97	53214	U 214
	125	48	125	72	98	130	44.2	13	132	314	1989	2340	2.5	53314	U 314
	150	69	150	73	110	155	63.6	19.5	229	539	1530	1800	6.5	53414 M	U 414
75	110	32	110	77	92	115	28.3	9.5	66	179	2601	3060	1	53215	U 215
	135	52	135	77	105	140	48.1	15	160	382	1836	2160	3.2	53315	U 315
	160	75	160	78	115	165	69	21	246	598	1377	1620	8.1	53415 M	U 415
80	115	33	115	82	98	120	29.5	10	75	204	2601	3060	1.1	53216	U 216
	140	52	140	82	110	145	47.6	15	156	382	1836	2160	3.3	53316	U 316
85	125	37	125	88	105	130	33.1	11	96	270	2295	2700	1.5	53217	U 217
	150	58	150	88	115	155	53.1	17.5	186	456	1683	1980	4.35	53317	U 317

SINGLE-DIRECTION THRUST BALL BEARINGS WITH A SPHERICAL SEAT WASHER

Size									Load factor		Limiting speed (rpm)		Bearing weight with ring (kg)	Marking	
d (mm)	D (mm)	H1 (mm)	d1 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	E (mm)	Dynamic	Static	Bearing lubricant			Bearing	Ring
											Bearing grease	Bearing oil			
90	135	42	135	93	110	140	38.5	13.5	117	319	2142	2520	2.1	53218	U 218
	155	59	155	93	120	160	54.6	18	191	490	1683	1980	4.7	53318	U 318
	190	88	187	93	140	195	81.2	25.5	301	799	1148	1350	13	53418 M	U 418
100	150	45	150	103	125	155	40.9	14	122	338	1836	2160	2.7	53220	U 220
	170	64	170	103	135	175	59.2	18	224	598	1454	1710	5.95	53320	U 320
	210	98	205	103	155	220	90	27	364	1039	1071	1260	18	53420 M	U 420
110	160	45	160	113	135	165	40.2	14	127	382	1836	2160	2.91	53222	U 222
	190	72	187	113	150	195	67.5	20.5	275	799	1301	1530	9.1	53322 M	U 322
120	170	46	170	123	145	175	40.8	15	137	431	1683	1980	3.2	53224	U 224
	210	80	205	123	165	220	74.1	22	319	960	1148	1350	12.5	53324 M	U 324
130	190	53	187	133	160	195	47.9	17	182	573	1530	1800	4.85	53226	U 226
140	200	55	197	143	170	210	48.6	17	186	608	1454	1710	5.45	53228	U 228



DOUBLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	D1 (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
10	32	22	17	5	16	26	7650	9000	0.084	52202
15	40	26	22	6	22	40	6120	7200	0.15	52204
20	47	28	27	7	27	54	5738	6750	0.22	52205
	52	34	27	8	34	59	4820	5670	0.33	52305
	70	52	32	12	72	134	3825	4500	1	52407
25	52	29	32	7	25	50	5126	6030	0.25	52206
	60	38	32	9	37	70	4055	4770	0.45	52306
	80	59	37	15	86	167	3290	3780	1.45	52406
30	62	34	37	8	34	72	4284	5040	0.41	52207
	68	36	42	9	46	104	4055	4770	0.55	52208
	68	44	37	10	48	95	3443	4050	0.68	52307
	78	49	42	12	61	120	3290	3870	1.05	52308
	90	65	42	15	110	220	2550	3050	2.05	52408
35	73	37	47	9	38	85	3825	4500	0.6	52209
	85	52	47	12	75	150	3060	3600	1.24	52309
	100	72	47	17	127	260	2907	2700	2.70	52409
40	78	39	52	9	48	114	3443	4050	0.67	52210
	95	58	52	14	87	186	2754	3240	1.75	52310
45	90	45	57	10	61	143	3060	3600	1.1	52211
	105	64	57	15	102	220	2448	2880	2.4	52311
	120	87	57	20	172	382	1836	2160	4.70	52411
50	95	46	62	10	61	147	2907	3420	1.16	52212
	110	64	62	15	99	220	2295	2700	2.55	52312
	130	93	62	21	195	421	1700	1980	6.35	52412 M
55	100	47	67	10	62	160	2754	3240	1.35	52213
	105	47	72	10	63	169	2754	3240	1.50	52214
	115	65	67	15	104	235	2295	2700	2.75	52313
	125	72	72	16	132	314	1989	2340	3.65	52314
	150	107	73	24	229	539	1530	1800	9.70	52414 M
60	110	47	77	10	66	179	2601	3060	1.55	52215
	135	79	77	18	160	382	1836	2160	4.8	52315
65	115	48	82	10	75	204	2601	3060	1.7	52216
	140	79	82	18	156	382	1836	2160	4.94	52316
70	125	55	88	12	96	270	2295	2700	2.4	52217
75	135	62	93	14	117	319	2142	2520	3.2	52218
85	150	67	103	15	122	338	1836	2160	4.2	52220
	170	97	103	21	225	598	1400	1710	8.95	52320
95	160	67	113	15	127	382	1836	2160	4.65	52222
100	170	68	123	15	137	431	1683	1980	5.25	52224

DOUBLE-DIRECTION THRUST BALL BEARINGS

Size					Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	D1 (mm)	B (mm)	Dynamic	Static	Bearing lubricant			
							Bearing grease	Bearing oil		
110	190	80	133	18	182	573	1530	1800	8	52226
120	200	81	143	18	186	608	1454	1710	8.65	52228
130	215	89	153	20	233	784	1377	1620	11.5	52230 M
140	225	90	163	20	236	833	1530	1300	12	52232 M
150	240	97	173	21	281	999	1224	1440	15	52234 M
	250	98	183	21	290	1000	1150	1350	16	52236 M



DOUBLE-DIRECTION THRUST BALL BEARINGS WITH SPHERICAL SEAT WASHERS

Size									Load factor		Limiting speed (rpm)		Bearing weight with ring (kg)	Marking	
d (mm)	D (mm)	H1 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	B (mm)	C (mm)	Dynamic	Static	Bearing lubricant			Bearing	Ring
											Bearing grease	Bearing oil			
25	60	46	32	45	62	41.3	9	7	36.946	69.58	3816	4770	0.58	54306	U 306
30	62	42	37	48	65	37.73	8	7	34.398	72.03	4032	5040	0.53	54207	U 207
	68	44	42	55	72	38.6	9	7	45.864	103.88	3816	4770	0.63	54208	U 208
	68	52	37	52	72	47.19	10	7.5	48.412	94.57	3240	4050	0.85	54307	U 307
	78	59	42	60	82	54.1	12	8.5	60.564	119.56	3096	3870	1.17	54308	U 308
35	73	45	47	60	78	39.6	9	7.5	38.22	84.77	3600	4500	0.78	54209	U 209
	85	62	47	65	90	56.2	12	10	74.578	152.88	2880	3600	1.6	54309	U 309
	100	86	47	72	105	78.9	17	12.5	127.4	259.7	2160	2700	3	54409	U 409
40	95	70	52	72	100	64.7	14	11	86.632	186.2	2592	3240	2.3	54310	U 310
	100	92	52	80	115	83.2	18	14	155.82	333.2	2016	2520	4.45	54410	U 410
45	90	55	57	72	95	49.6	10	9	60.564	143.08	2880	3600	1.3	54211	U 211
50	110	78	62	85	115	70.7	15	11.5	98.98	219.52	2160	2700	2.9	54312	U 312
65	140	95	82	110	145	86.1	18	18	155.82	382.2	1728	2160	0.57	54316	U 316
	170	140	83	125	175	128.5	27	22	264.6	656.6	1224	1530	1.4	54416 M	U 416
70	150	105	88	115	155	95.2	19	17.5	186.2	455.7	1584	1980	7.95	54317	U 317
80	210	176	103	155	220	159.9	33	27	363.58	1038.8	1008	1260	29	54420 M	U 420



SPHERICAL ROLLER THRUST BEARINGS



SPHERICAL ROLLER THRUST BEARINGS

Size							Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	D1 (mm)	B (mm)	E (mm)	d1 (mm)	Dynamic	Static	Bearing lubricant			
									Bearing grease	Bearing oil		
60	130	42	88	27	20	118	280	815	3825	2400	2.6	29412 M
65	140	45	96.5	29.5	21	128	330	965	3672	2200	3.3	29413 M
70	150	48	102	31	23	137	360	1060	3290	2000	4.0	29414 M
75	160	51	109	33.5	24	146	415	1250	3060	2000	4.87	29415 M
80	170	54	116	35	26	155	450	1370	2907	1900	5.8	29416 M
85	150	39	109.5	24.5	20	134.8	372	1039	3060	3600	2.75	29317 M
	180	58	125.2	37	28	164	510	1560	2754	1800	6.90	29417 M
90	155	39	117	24.5	19	148.50	392	1058	3060	3600	2.85	29318 M
	190	60	130	39	29	174	570	1760	2601	1700	8.10	29418 M
100	170	42	127.5	34	20.6	158.9	456	1264	2754	3240	3.8	29320 M
	210	67	142	54	31.5	189	960	2450	2295	2700	10.6	29420 M
110	190	48	142	37.5	23	176	598	1695	2448	2880	5.6	29322 M
	230	73	155.5	58	34.4	208	1156	2940	2142	2520	16.5	29422 M
120	210	54	156	42	25.9	193.5	750	2078	2142	2520	7.45	29324 M
	250	78	172	62.4	38	220	1343	3381	1989	2340	17	29424 M
130	225	58	168	44	27.8	206.7	848	2450	1989	2340	9.3	29326 M
	270	85	185	63	41	248	1529	3969	1836	2160	22	29426 M
140	240	60	183	46	28	221	960	2793	1989	2340	10.7	29328 M
	280	85	197.5	64	42	252	1597	4214	1836	2160	24.6	29428 M
150	215	39	176	24	20.5	200.4	400	1568	2142	2520	4.3	29230 M
	250	60	190	47	29	228	980	2793	1836	2160	11.2	29330 M
	300	90	214	70	44	275	1823	4998	1683	1980	38.1	29430 M
160	270	67	205	53	31.7	249.6	1156	3381	1683	1980	14.5	29332 M
	320	95	220.5	73	46.4	290	2038	5488	1530	1800	34.5	29432 M
170	280	67	216	49.6	31.7	260.3	1176	3479	1683	1980	16	29334 M
	340	103	234	80	48.8	310	2313	6419	1454	1710	44	29434 M
180	250	42	208	31.8	21.8	237	485	1999	1989	2340	5.88	29236 M
	300	73	229	56	34.4	275	1401	4214	1530	1800	19.6	29336 M
	360	109	249.5	85	51.8	326	2548	7203	1377	1620	63.1	29436 M
190	320	78	240.5	59.5	38.6	298.3	1597	4655	1454	1710	24.5	29338 M
	380	115	263	89.5	54.2	345	2793	7840	1301	1530	60.8	29438 M
200	280	48	233.5	35.3	24.3	266	643	2597	1683	1980	8.9	29240 M
	340	85	259	64	39.1	314	1823	5390	1301	1530	30.3	29340 M
	400	122	278	95	57.5	363	3136	8820	1224	1440	69	29440 M
220	300	48	253	36.5	24.3	285	676	2940	1683	1980	9.45	29244 M
	360	85	277.5	64	40.7	336	1960	6174	1301	1530	33	29344 M
	420	122	298.5	95	57	383.8	3283	9457	1148	1350	73.9	29444 M

SPHERICAL ROLLER THRUST BEARINGS

Size							Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	D1 (mm)	B (mm)	E (mm)	d1 (mm)	Dynamic	Static	Bearing lubricant			
									Bearing grease	Bearing oil		
240	340	60	281.5	46.4	29.6	324	783	3381	1377	1620	16.8	29248 M
	380	85	298.5	63	41.7	360	1999	6419	1224	1440	36	29348 M
	440	122	318.5	92.5	59.4	399	3332	9996	1148	1350	78	29448 M
260	360	60	302	46.2	29.8	343	801	3577	1301	1530	18	29252 M
	420	95	327.5	70	46	392.3	2499	8134	1071	1260	49.3	29352 M
	480	132	342	99	65	441	3969	12642	995	1170	102	29452 M
280	380	60	322.5	46.2	29.5	364	846	3920	1301	1530	21.9	29256 M
	440	95	346	70	46.3	411	2499	8477	1071	1260	50.3	29356 M
	520	145	373.5	109.5	69	472	4802	14994	918	1080	131	29456 M
300	420	73	350.5	53	35.8	398.9	1049	4704	1071	1260	29.3	29260 M
	480	109	371.5	83	53	448	3038	10388	918	1080	72.5	29360 M
	540	145	395	109.9	68.3	494.4	4224	16268	918	1080	138	29460 M
320	440	73	369.5	54	36	420	1088	4998	1071	1260	31.6	29264 M
	500	109	393	81.5	53	468	3283	10976	918	1080	75.4	29364 M
	580	155	420	116	75	534	4851	18620	842	990	174	29464 M
340	460	73	390	54	36	440	1107	5292	995	1170	33	29268 M
	540	122	428	40.6	117	59.5	2656	10780	842	990	105	29368 M
	620	170	449.5	128	80.1	560	5635	21952	765	900	211	29468 M
360	500	85	423	25	81	44	1431	6664	918	1080	52	29272 M
	560	122	442.5	90	58.1	523.3	2705	11368	842	990	111	29372 M
	640	170	470	126	81	588	5243	20776	727	855	224	29472 M
380	520	85	441	27	81	42	1548	7497	842	990	53	29276 M
	600	132	473	99.5	62.2	565	3273	13720	765	900	135	29376 M
	670	175	494	67	168	87.5	5753	23520	689	810	260	29476 M
400	540	85	460	62.5	42	514	1578	7840	842	990	61	29280 M
	620	132	489	100	64.7	582	3381	14308	727	855	154	29380 M
	710	185	529.5	138	86	652	6429	25970	650	765	298	29480 M
420	580	95	485	71	49.2	552.1	1950	9604	765	900	76	29284 M
	650	140	520	49	135	67.5	3665	15680	689	810	170	29384 M
	730	185	542.5	140	89.9	668	6595	26950	650	765	310	29484 M
440	600	95	508	30	91	46.5	2029	10192	765	900	78	29288 M
	680	145	540	49	140	70.5	4400	18914	650	765	180	29388 M
	780	206	583	150	97	716	7664	31360	574	675	407	29488 M
460	620	95	530	30	91	46	2029	10388	727	855	81	29292 M
	710	150	567	50	144	72.5	4224	18620	612	720	215	29392 M
	800	206	596	77	199	101.5	7830	32830	574	675	425	29492 M
480	650	103	556	33	99	53.5	2303	11564	689	810	98	29296 M
	730	150	582	112	74	684	4283	19208	612	720	212	29396 M
	850	224	625	88	216	108	9359	38220	513	603	550	29496 M

SPHERICAL ROLLER THRUST BEARINGS

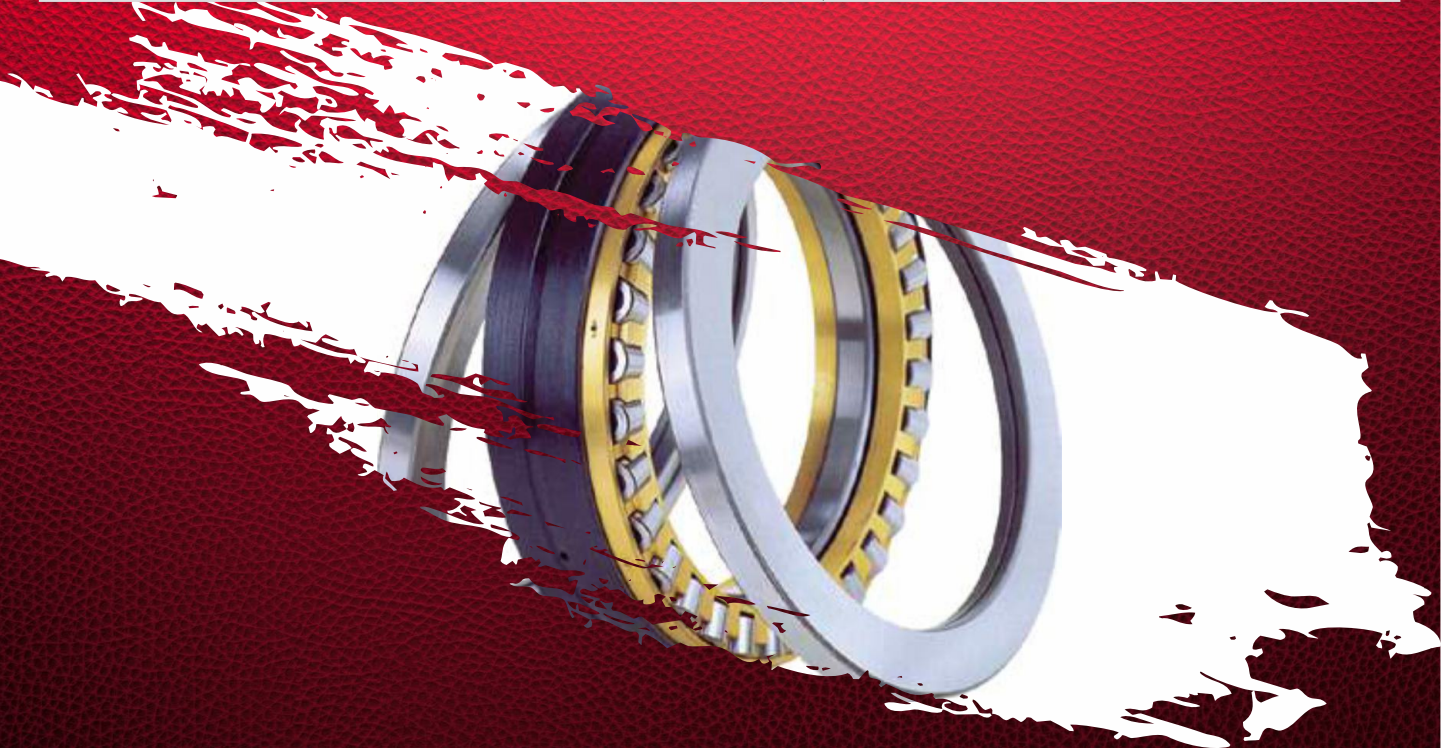
Size							Load factor		Limiting speed (rpm)		Weight (kg)	Marking
d (mm)	D (mm)	H (mm)	D1 (mm)	B (mm)	E (mm)	d1 (mm)	Dynamic	Static	Bearing lubricant			
									Bearing grease	Bearing oil		
500	670	103	571.5	76	50.5	640.5	2342	12250	689	810	97.5	292/500 M
	750	150	611	50	144	74	4400	19992	612	720	235	293/500 M
	870	224	650	160	107	797	9183	39200	513	603	555	294/500 M
530	710	109	604	80	56	675	3048	14994	650	765	118	292/530 M
	800	160	648	53	154	76	5125	23128	574	675	270	293/530 M
	920	236	686	89	228	116	10290	43120	482	567	650	294/530 M
560	750	115	644	37	111	61	2930	15680	612	720	140	292/560 M
	980	250	727	99	241	122	11760	49980	428	504	810	294/560 M
600	800	122	687	90	58.9	770	3665	18228	536	630	161	292/600 M
	900	180	720	65	174	89	7379	33810	482	567	405	293/600 M
	1030	258	770.5	185	126	954.8	12838	54880	405	477	860	294/600 M
630	850	132	723	50	127	62	4675	23128	513	603	210	292/630 M
	950	190	761	68	183	92	8281	37240	459	540	485	293/630 M
	1090	280	815	107	270	137	14112	60760	383	450	1040	294/630 M
670	900	140	773	45	135	73	4116	22344	482	567	255	292/670 M
	1150	290	872	205	138	1054	15092	66640	344	405	1225	294/670 M
710	1060	212	855	74	205	103	9751	44590	383	450	660	293/710 M
	1220	308	917	117	298	149	17248	74970	329	387	1500	294/710 M
750	1000	150	858	50	144	74	5978	30380	428	504	325	292/750 M
	1120	224	910	76	216	109	9183	44100	367	432	770	293/750 M
	1280	315	964	121	305	153	18326	83300	306	360	1650	294/750 M
800	1060	155	911	52	149	77	6429	33810	405	477	380	292/800 M
	1180	230	965	77	222	111	9751	48020	344	405	865	293/800 M
	1360	335	1034	123	324	165	19796	91140	275	324	2025	294/800 M
850	1120	160	967	47	154	82	6595	35280	383	450	425	292/850 M
	1440	354	1077	142	342	172	23422	105840	260	306	2390	294/850 M
900	1520	372	1137	147	360	186	26166	119560	230	270	2650	294/900 M
950	1250	180	1087	58	174	88	8114	44590	329	387	600	292/950 M
	1600	390	1209	153	377	191	27636	129360	214	252	3065	294/950 M
1000	1670	402	1270	155	389	190	30478	137200	199	234	3380	294/1000 M
1060	1400	206	1211	66	199	100	10290	57330	275	324	860	292/1060 M
	1770	426	1349	192	412	207	32732	152880	184	216	4280	294/1060 M
1180	1520	206	1331	83	199	101	10682	62720	260	306	950	292/1180 M
1250	1800	330	1474	148	319	161	24304	126420	184	216	2770	293/1250 M
1600	2280	408	1885	166	395	195	36064	196000	122	144	5375	293/1600 M

TAPERED ROLLER THRUST BEARINGS



DOUBLE-ROW TAPERED ROLLER THRUST BEARINGS

Size						Load factor		Weight (kg)	Marking
d (mm)	d _i (mm)	D (mm)	D _i (mm)	B (mm)	H (mm)	Dynamic	Static		
170	182	240	184	20	84	323,4	1264,2	12,5	350980 C
180	192	280	196	20	90	549,78	2352	22,0	353162
220	231	300	236	22	96	431,2	1626,8	20,0	351019 C
240	251	320	256	22	96	409,64	1862	21,5	351182 C
250	265	380	275	22	100	879,06	4459	43,5	353005
260	276	360	285	20	92	592,9	2548	28,0	350981 C
270	300	450	310	45	180	1617	5880	120	351164 C
320	349	440	355	26	108	970,2	4557	48,5	353102 C
	340	470	350	30	130	1274	5586	80	350982 C
350	380	490	390	30	130	1146,6	4998	73,5	351100 C
	384	540	400	30	135	1685,6	8967	115	353006
380	416	560	430	32	130	1754,2	9800	110	351175 C
420	455	620	465	35	170	2371,6	11956	185	351121 C
440	480	645	490	50	167	1940,4	10584	190	353152
450	480	645	490	38	155	1940,4	10584	170	350916 D
470	515	720	536	50	200	3341,8	17248	285	353151
530	560	710	575	57	218	2156	10780	245	351475 C
550	585	760	610	50	230	2861,6	12936	310	350976 C
600	670	910	680	70	290	4635,4	20776	655	350901 C
670	705	900	725	50	230	3508,4	18620	425	351761 A
900	960	1180	990	48	220	3939,6	28420	605	353002



OPERATING CHARACTERISTICS

Rolling bearings are precision components, and therefore appropriate care must be taken when handling and using them.

No matter how high-performance a bearing may be, if it is improperly mounted and/or operated, it will be impossible to achieve the expected performance.

MAINTAIN CLEANLINESS



Even microscopic, invisible dust that enters a bearing will accelerate its wear and increase vibration and noise. The bearing and its surrounding components must be kept clean, particularly free from dust and dirt. Tools and the working environment must be maintained in a clean condition.

BE CAREFUL



Avoid strong impacts: Do not strike bearings directly with a hammer, and avoid transmitting force through the rolling elements.

USE PROPER AND PRECISE MOUNTING TOOLS



Use only specialized tools to ensure high-quality installation and long service life.

PREVENT BEARING CORROSION



To achieve maximum service life, especially under light loads, it is essential to ensure clean installation and corrosion protection. Always wear gloves and apply high-quality mineral oil before bearing installation. This prevents damage to the rolling contact surfaces and can significantly extend the service life.

CONTACTS

BRAND REPRESENTATIVE



PRECISION BEARINGS

IN THE RUSSIAN FEDERATION

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