

Other Special Bearings

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Other Special Bearings

track roller bearings

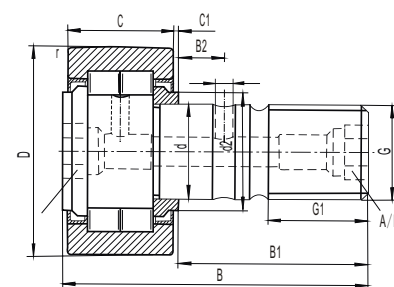
Track Roller Bearings

The yoke type track roller bearings and the screw track roller bearings are commonly used in delivery mechanism roller, cam following mechanism etc. The stud type track roller can operate under some severe conditions such as high speed, over loading and impact load.

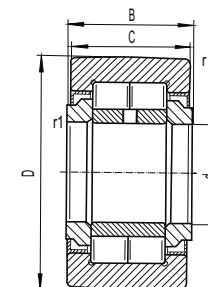
Bearing Designations		Boundary Dimensions				
		d	D	B	C	r _s mm
mm						
NUKR35	NUKR35X	16	35	52	18	0.6
NUKR40	NUKR40X	18	40	58	20	1
NUKR52	NUKR52X	20	52	66	24	1
NUKR72	NUKR72X	24	72	80	29	1.1
NUKR80	NUKR80X	30	80	100	35	1.1
NUKR90	NUKR90X	30	90	100	35	1.1

Bearing Designations		Boundary Dimensions				
		d	D	B	C	r _s mm
mm						
NUTR15	NUTR15X	15	35	19	18	0.6
NUTR17	NUTR17X	17	40	21	20	1
NUTR25	NUTR25X	25	52	25	24	1
NUTR30	NUTR30X	30	62	29	28	1
NUTR40	NUTR40X	40	80	32	30	1.1
NUTR45	NUTR45X	45	85	32	30	1.1
NUTR50	NUTR50X	50	90	32	30	1.1

LYC[®]



Type NUKR



Type NUTR

Limiting Speeds	Load Rating		Mass
	Grease	Dynamic Static	
r/min	kN		kg
6500	15	16.8	0.164
5500	18.34	22.6	0.242
3400	29	37.5	0.45
2100	44.5	60	1.02
1800	69	98	1.6
1800	79	117	1.96

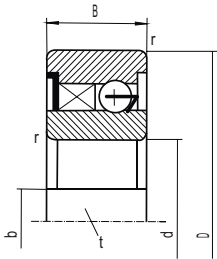
Limiting Speeds	Load Rating		Mass
	Grease	Dynamic Static	
r/min	kN		kg
6500	15	16.8	0.099
5500	18.4	22.6	0.147
3400	29	37.5	0.281
2600	40	50	0.465
1600	55	75	0.816
1400	56	78	0.883
1300	57	81	0.950



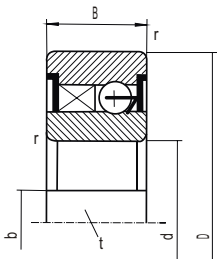
One-Way Bearings

One-way bearing can rotate freely in one direction, but deadlock in the other direction. There are many rolling shafts, needle rollers or balls in its metal shell, while its shape of rolling housing (holl) makes it only rotate in one direction, and have a large resistance in the other direction (so-called one way).
This kind of bearing is usually applied in textile machinery, printing machinery, automobile industry, household appliance and currency detector etc.

Bearing Designations		Boundary Dimensions					
		d	D	B	r	b	t
		mm					
DX6203	DX6203-RS	17	40	12	1.0	5	1.2
DXN6203	DXN6203-RS						
DX6204	DX6204-2RS	20	47	14	1.5	6	1.6
DXN6204	DXN6204-2RS						
DX6205	DX6205-RS	25	52	15	1.5	8	2
DXN6205	DXN6205-2RS						
DX6206	DX6206-2RS	30	62	16	1.5	8	2
DXN6206	DXN6206-RS						
DX6207	DX6207-RS	35	72	17	2.7	10	3.3
DXN6207	DXN6207-2RS						
DX6208	DX6208-2RS	40	80	18	2.7	12	3.3
DXN6208	DXN6208-2RS						
DXN6304	DXN6304-2RS	20	52	15	1.5	-	-

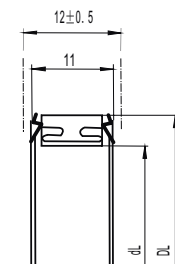


Type DX62...
Type DXN62...

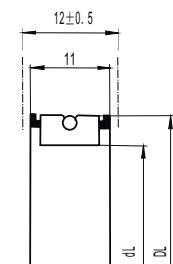


Type DX62...2RS
Type DXN62...2RS

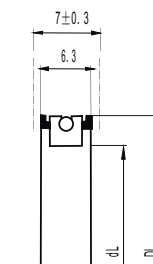
Moment	Limiting Speeds	Load Rating		Corresponding Designations
		Dynamic	Static	
Nm	r/min	kN		
40	3700	6555	3175	FK6203 FKN6203
55	3200	7325	3870	FK6204 FKN6204
93	2800	7980	4570	FK6205 FKN6205
130	2400	8450	5290	FK6206 FKN6206
202	1900	9295	6700	FK6207 FKN6207
200	1900	9295	6700	FK6208 FKN6208
93	2800	7980	4570	Fk6204



Type DX400



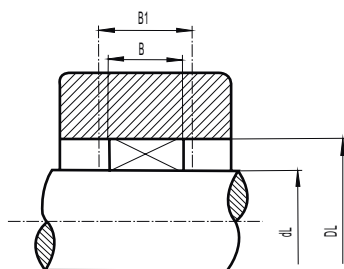
Type DX400Z



Type DX400Z2

DX400		DX400Z		DX400Z2	
Designations	Moment	Designations	Moment	Designations	Moment
Nm		Nm		Nm	
-	-	-	-	DX410 Z2	0.3
-	-	DX412 Z	3	DX412 Z2	1.8
-	-	-	-	DX413 Z2	2.9
-	-	DX414 Z	7	DX414 Z2	2.6
-	-	DX416 Z	12	DX416 Z2	7.6
DX422	48	DX422 Z	44	DX422 Z2	21
DX423	55	DX423 Z	48	DX423 Z2	24
DX425	68	DX425 Z	58	DX425 Z2	30
DX427	80	DX427 Z	66	DX427 Z2	36
DX428	87	DX428 Z	75	DX428 Z2	39
DX430	101	DX430 Z	87	DX430 Z2	46
DX432	116	DX432 Z	97	DX432 Z2	52
DX433	124	DX433 Z	107	DX433 Z2	56
DX435	141	DX435 Z	121	DX435 Z2	64
DX437	158	DX437 Z	137	DX437 Z2	71
DX438	168	DX438 Z	144	DX438 Z2	76
DX442	207	DX442 Z	178	DX442 Z2	93
DX443	217	DX443 Z	187	DX443 Z2	98
DX448	272	DX448 Z	235	DX448 Z2	122
-	-	DX450 Z	210	DX450 Z2	130
DX453	333	DX453 Z	281	DX453 Z2	146
DX458	400	DX458 Z	345	DX458 Z2	178
DX459	414	DX459 Z	357	DX459 Z2	181
DX463	472	DX463 Z	407	DX463 Z2	202
DX468	550	DX468 Z	474	DX468 Z2	243
DX470	583	DX470 Z	502	-	-
DX473	633	DX473 Z	545	-	-
DX478	722	DX478 Z	622	-	-
DX488	914	DX488 Z	788	-	-

Boundary		Dimensions		Limiting Speeds	Corresponding Designations
d _i	D _i	d _i	D _i		
mm		inch		r/min	
2	10	0.0787	0.3937	10000	FE410Z2
4	12	0.1575	0.4727	10000	FE412Z
5	13	0.1969	0.5118	9000	FE413Z2
6	14	0.2362	0.5512	8500	FE414Z
8	16	0.3150	0.6299	7500	FE416Z
14	22	0.5512	0.8661	5300	FE422
15	23	0.5906	0.9055	5200	FE423
17	25	0.6693	0.9843	4700	FE425
19	27	0.7480	1.0630	4400	FE427
20	28	0.7874	1.1024	4200	FE428
22	30	0.8611	1.1811	4000	FE430
24	32	0.9449	1.2598	3700	FE432
25	33	0.9843	1.2992	3600	FE433
27	35	1.0630	1.3780	3400	FE435
29	37	1.1417	1.4567	3200	FE437
30	38	1.1811	1.4960	3100	FE438
34	42	1.3386	1.6535	2800	FE442
35	43	1.3780	1.6929	2700	FE443
40	48	1.5748	1.8898	2500	FE448
42	50	1.6535	1.9685	2400	FE450Z
45	53	1.7717	2.0866	2200	FE453
50	58	1.9685	2.2835	2000	FE458
51	59	2.0079	2.3228	2000	FE459
55	63	2.1654	2.4803	1900	FE463
60	68	2.3622	2.6772	1750	FE468
62	70	2.4409	2.7559	1700	FE470
65	73	2.5590	2.8740	1600	FE473
70	78	2.7559	3.0709	1500	FE478
80	88	3.1496	3.4646	1300	FE488



Type DX8000

Designations	Moment	Boundary Dimensions						Corresponding Designations
		d _L	D _L	B	d _L	D _L	B	
	Nm	mm			inch			
DX8038Z13	333	38.09	54.75	13	1.4996	2.1555	0.5118	FE8038Z13
DX8038Z16	479	38.09	54.75	16	1.4996	2.1555	0.6299	FE8038Z16
DX8038Z19	627	38.09	54.75	19	1.4996	2.1555	0.748	FE8038Z19
DX8040Z13	361	40.00	56.66	13	1.5748	2.2307	0.5118	FE8040Z13
DX8040Z16	517	40.00	56.66	16	1.5748	2.2307	0.6299	FE8040Z16
DX8040Z19	677	40.00	56.66	19	1.5748	2.2307	0.748	FE8040Z19
DX8044Z13	427	44.45	61.11	13	1.7500	2.4059	0.5118	FE8044Z13
DX8044Z16	614	44.45	61.11	16	1.7500	2.4059	0.6299	FE8044Z16
DX8044Z19	803	44.45	61.11	19	1.7500	2.4059	0.748	FE8044Z19
DX8049Z13	515	49.72	66.38	13	1.9574	2.6134	0.5118	FE8049Z13
DX8049Z16	741	49.72	66.38	16	1.9574	2.6134	0.6299	FE8049Z16
DX8049Z19	970	49.72	66.38	19	1.9574	2.6134	0.748	FE8049Z19
DX8054Z13	606	54.76	71.42	13	2.1559	2.8125	0.5118	FE8054Z13
DX8054Z16	874	54.76	71.42	16	2.1559	2.8125	0.6299	FE8054Z16
DX8054Z19	1140	54.76	71.42	19	2.1559	2.8125	0.748	FE8054Z19
DX8054Z25	1682	54.76	71.42	25	2.1559	2.8125	0.9843	FE8054Z25
DX8058Z19	1260	58.00	74.66	19	2.2835	2.9394	0.748	FE8058Z19
DX8068Z16	1266	68.00	84.66	16	2.6772	3.3331	0.6299	FE8068Z16
DX8072Z13	977	72.21	88.87	13	2.8429	3.4988	0.5118	FE8072Z13
DX8072Z16	1411	72.21	88.87	16	2.8429	3.4988	0.6299	FE8072Z16
DX8072Z19	1845	72.21	88.87	19	2.8429	3.4988	0.748	FE8072Z19
DX8072Z25	2715	72.21	88.87	25	2.8429	3.4988	0.6299	FE8072Z25
DX8079Z25	2619	79.69	96.36	25	3.1374	3.7937	0.748	FE8079Z25
DX8083Z25	3407	83.34	100.00	25	3.2811	3.9370	0.9843	FE8083Z25
DX8093Z19	2907	93.34	110.00	19	3.6748	4.3307	0.748	FE8093Z19
DX8103Z16	2674	103.23	119.89	16	4.0642	4.7201	0.6299	FE8103Z16
DX8103Z19	3322	103.23	119.89	19	4.0642	4.7201	0.748	FE8103Z19
DX8103Z25	4600	103.23	119.89	25	4.0642	4.7201	0.9843	FE8103Z25
DX8129Z25	6244	129.39	146.05	25	5.0941	5.7500	0.9843	FE8129Z25
DX8140Z25	6686	140.00	156.66	25	5.5118	6.1677	0.9843	FE8140Z25
DX8150Z25	7448	150.00	166.66	25	5.9055	6.5614	0.9843	FE8150Z25



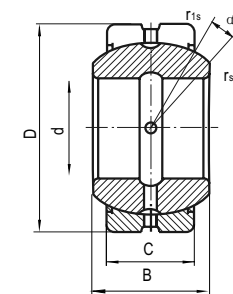
Other Special Bearings

spherical plain bearings

Spherical Plain Bearings

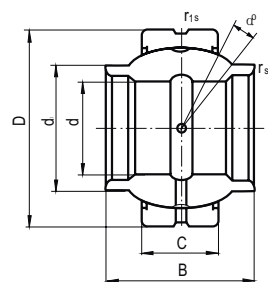
The sliding frictional component of radial spherical plain bearing is consist of outer ring with inner spherical surface and inner ring with outer spherical surface. This kind of bearings is suitable for the machineries, which have low requirement of concentricity, and relatively big press on working surface with low speed sway, slant or rotary motion. There are mainly two kinds of sliding frictional component of radial spherical plain bearings: steel on steel radial spherical plain bearings and self-lubricating spherical plain bearings.

Bearing Designations		Boundary Dimensions		
		d	D	B
		mm		
GE20ES	GE20ES-2RS	20	35	16
GE45ES	GE45ES-2RS	45	68	32
GE60ES	GE60ES-2RS	60	90	44
GE120ES	GE120ES-2RS	120	180	85
GE200ES	GE200ES-2RS	200	290	130
GEG20ES	GEG20ES-2RS	20	42	25
GEG80ES	GEG80ES-2RS	80	130	75
GEG140ES	GEG140ES-2RS	140	230	130
GEG200ES	GEG200ES-2RS	200	320	165
GEF20ES		20	32	16
GEF65ES		65	105	55
GEF100ES		100	160	88
GEF150ES		150	220	120
GEZ19ES	GEZ19ES-2RS	19.05	31.75	16.662
GEZ34ES	GEZ34ES-2RS	34.925	55.563	30.15
GEZ88ES	GEZ88ES-2RS	88.9	139.7	77.775
GEZ107ES	GEZ107ES-2RS	107.95	168.275	94.463
GEZ152ES	GEZ152ES-2RS	152.4	222.25	120.65
GEGZ31ES	GEGZ31ES-2RS	31.75	61.913	35.306
GEGZ50ES	GEGZ50ES-2RS	50.8	90.488	52.578
GEGZ95ES	GEGZ95ES-2RS	95.25	158.75	94.945
GEGZ139ES	GEGZ139ES-2RS	139.7	222.25	125.73
GEFZ19S		19.05	36.51	19.05
GEFZ22S		22.23	39.69	22.23
GEFZ25S		25.4	44.45	25.4

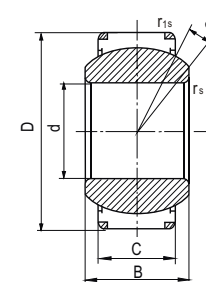


Type GE -- ES-2RS

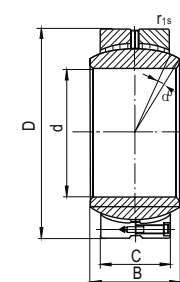
Boundary Dimensions				Load Ratings		Mass
C	r_s min	r_{1s} min	$\alpha^{\circ} \approx$	Dynamic	Static	
mm				kN		kg
12	0.3	0.3	9	30	146	0.066
25	0.6	1	7	127	637	0.427
36	1	1	6	245	1220	1.04
70	1	1	6	950	4750	8.05
100	1.1	1.1	7	2120	10600	28.03
16	0.3	0.6	17	48	240	0.153
50	1	1	14	488	2440	3.64
80	1	1	16	1360	6800	19.01
100	1.1	1.1	15	2320	11600	45.28
14	0.5	0.5	4	33	166	0.053
47	1	1	5	375	1870	2.05
75	1.5	1.5	5	956	4780	7.43
105	1.5	1.5	5	1820	9140	17.1
14.275	0.3	0.6	6	31	95	0.053
26.187	0.6	1	6	102	310	0.35
66.675	1	1	6	680	2040	4.8
80.95	1	1	6	1000	3000	8.41
104.775	1	1	5	1730	5200	17.5
28.575	0.6	1	15	125	375	0.454
42.85	0.6	1	14	280	850	1.68
76.2	1	1	14	900	2650	8.85
104.775	1	1	9	1730	5200	20.4
15.06	0.3	1.12	9	28	141	0.093
17.86	0.6	1.12	9.5	37	186	0.119
20.24	0.6	1.12	10	49	245	0.175



Type GEEW ... ES-2RS



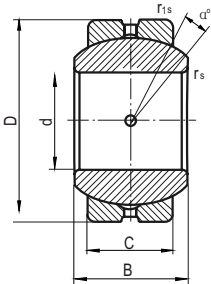
Type GEH ... XT-2RS



Type GEH ... HC

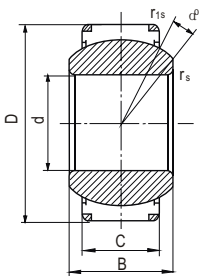
Bearing Designations	Boundary Dimensions			
	d	D	B	C
	mm			
GEEW20ES	20	35	20	12
GEEW63ES	63	95	63	36
GEEW200ES	200	290	200	100
GEEM20ES-2RS	20	35	24	12
GEEM40ES-2RS	40	62	38	22
GEEM80ES-2RS	80	120	74	45
GEWZ19ES	19.05	31.75	28.575	14.275
GEWZ69ES	69.85	111.125	104.775	52.375
GEWZ152ES	152.4	222.25	209.55	104.775
GE20XS/K	20	32	16	14
GE90XS/K	90	140	76	65
GE150XS/K	150	220	120	105
GEBK20S	20	46	25	18
GEBK25S	25	56	31	22
GEBK30S	30	66	37	25
GE20C	20	35	16	12
GE30C	30	47	22	18
GEG20C	20	42	25	16
GEG30C	30	55	32	20

Boundary Dimensions				Load Ratings		Mass
C	r _s min	r _{1s} min	α°≈	Dynamic	Static	
	mm			kN		kg
25	0.3	0.3	4	30	146	0.071
71.5	1	1	4	253	1260	1.25
221	1.1	1.1	4	2120	10600	32.1
24	0.3	0.3	6	30	146	0.073
45	0.6	1	4	99	495	0.35
90	0.6	1	4	400	2000	2.5
23.368	0.3	0.6	5	31	95	0.064
85.852	1	1	5	415	1250	2.9
178.308	1	1	5	1730	5200	20.7
	0.5	0.5	4	33	166	0.053
	1	1	5	718	3590	4.72
	1.5	1.5	5	1820	9140	17.1
	0.3	0.6	15	31	73	0.21
	0.6	0.6	15	47	110	0.39
	0.6	0.6	17	63	148	0.61
	0.3	0.3	9	31	78	0.066
	0.6	0.6	6	65	166	0.163
	0.3	0.3	17	51	127	0.153
	0.6	0.6	17	83	212	0.304

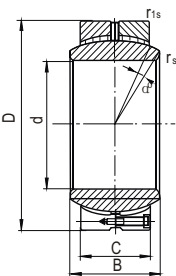


Type GEFZ...S

Bearing Designations	Boundary Dimensions			
	d	D	B	C
	mm			
GEG20ET-2RS	20	42	25	16
GEG200XT-2RS	200	320	165	100
GEZ19ET-2RS	19.05	31.75	16.662	14.275
GEZ152ET-2RS	152.4	222.25	120.65	104.775
GEH100XT	100	150	71	67
GEH200XT	200	290	140	134
GEH100HC	100	150	71	67
GEH200HC	200	290	140	134
GEH100HT	100	150	71	67
GEH200HT	200	290	140	134
GEFZ19S	(GEFZ19C)	19.05	36.51	19.05
GEFZ25	(GEFZ25C)	25.4	44.45	25.4

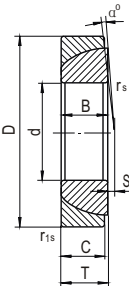


Type GEH...XT-2RS



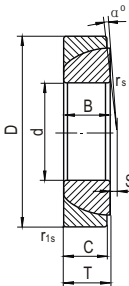
Type GEH...HC

Boundary Dimensions				Load Ratings		Mass
d _i max	r _s min	r _{1s} min	$\alpha^{\circ} \approx$	Dynamic	Static	
mm				kN		kg
-	0.3	0.6	17	68	137	0.153
-	1.1	1.1	15	3300	6550	45.28
-	0.3	0.6	6	45	92	0.053
-	1	1	5	2600	5240	17.5
-	1	1	2	1080	2170	4.51
-	1.1	1.1	2	4180	8370	33.5
-	1	1	2	810	1350	4.51
-	1.1	1.1	2	3130	5500	33.5
-	1	1	2	860	1750	4.51
-	1.1	1.1	2	3340	6740	33.5
-	0.3	1.12	9	28(40.8)	141(102.1)	0.093
-	0.6	1.12	10	49(69.4)	245(173.5)	0.175



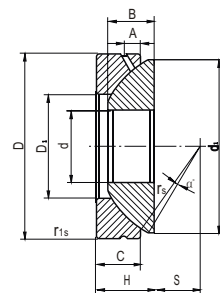
Type GAC ...T
Type GAC ...SK

Bearing Designations	Boundary Dimensions				
	d	D	B	C	T
	mm				
GAC25S	25	47	15	14	15
GAC45S	45	75	20	18	20
GAC70S	70	110	25	23	25
GAC100S	100	150	32	31	32
GAC150S	150	225	48	46	48
GAC200S	200	310	70	66	70
GAC25T	25	47	15	14	15
GAC50T	50	80	20	19	20
GAC85T	85	130	29	26.5	29
GAC120T	120	180	38	37	38
GAC160T	160	240	51	49	51
GAC200T	200	310	70	66	70
GACZ19S	19.05	31.75	10.41	7.87	11.18
GACZ44S	44.45	71.438	24.89	20.07	27.18
GACZ82S	82.55	130.175	47.24	39.24	51.56
GACZ101S	101.6	158.75	58.42	49.15	63.5
GACZ152S	152.4	222.25	78.74	66.42	85.72



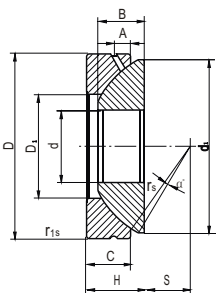
Type GAC ...T
Type GAC ...SK

Boundary Dimensions				Load Ratings		Mass
S	A	r _s r _{1s} min	α°≈	Dynamic	Static	
mm				kN		kg
0.6	7.5	1	2.5	50	250	0.148
3.5	10	1	3	108	540	0.416
7.2	12.5	1.1	2	206	1030	1.04
11.6	16	1.5	0.5	384	1923	2.34
20	20.5	3	1	850	4270	8.01
26	30	3	1.5	1680	8420	22.5
0.6	-	1	2.5	75	149	0.148
4.3	-	1	1.5	185	370	0.455
9.4	-	1.1	2	426	851	1.61
14.5	-	2	0.5	820	1630	3.97
20	-	3	1	1445	2990	9.42
26	-	3	1.5	2520	5040	22.5
1.79	3.18	1	6	16	83	0.038
4.72	8.33	2.54	6	99	499	0.458
9.04	16.66	4.6	5	364	1820	2.89
10.4	19.84	4.6	4.5	566	2830	5.26
16.1	34.8	4.6	4.5	1080	5400	17.37



Type GX...X

Bearing Designations	Boundary Dimensions					
	d	D	B	C	H	S
	mm					
GX20S	20	55	14.5	13.8	20	12.5
GX45S	45	120	31	25.5	36.5	27.5
GX100S	100	210	51	46	59	45
GX200S	200	340	80	66	87	70
GX20T	20	55	14.5	13.8	20	12.5
GX50T	50	130	33	30.5	42.5	30
GX120T	120	230	53.5	50	64	52.5
GX200T	200	340	80	66	87	70

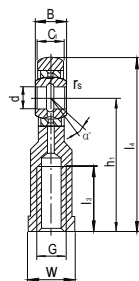


Type GX...X

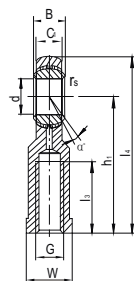
Boundary Dimensions						Load Ratings		Mass
d ₁ max	D ₁ min	A	r _s min	r _{1s} min	α°≈	Dynamic	Static	
mm						kN		kg
50	31	6	1	5		84	425	0.246
110	67	11	1	6		486	2470	2.24
198	127	15	1.1	4		1300	6470	10.9
320	247	27	1.5	1		3070	15280	34.2
50	31	-	1	5		127	255	0.246
120	70	-	1	6		840	1670	3.14
220	145	-	1.1	3		2170	4560	13.9
320	247	-	1.5	1		4780	9150	34.2



Other Special Bearings
spherical plain bearings

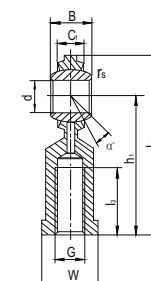


Type SI...ES



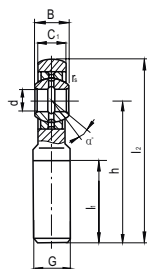
Type SI2P...S

Bearing Designations	Boundary Dimensions							
	d	B	C ₁ max	d ₂ max	G 6H	h ₁	l ₃ min	l ₄ max
	mm							
SI5E	5	6	4.5	21	M5	30	11	40.5
SI8E	8	8	6.5	24	M8	36	15	48
SI12E	12	10	8.5	34	M12	50	18	67
SI15ES	15	12	10.5	40	M14	61	21	81
SI40ES	40	28	24	92	M39×3	142	65	188
SI80ES	80	55	48	180	M64×4	230	85	320
SI8P5S	5	8	6	16	M5	27	14	35
SI8P16S	16	21	15	38	M16	64	33	83
SI8P22S	22	28	20	50	M22×1.5	84	43	109
SI8P30S	30	37	25	70	M30×2	110	56	145
SI2P4S	4.83	7.92	6.35	15.88	10-32	26.97	14.27	34.93
SI2P9S	9.53	12.7	10.31	25.4	3/8-24	41.28	23.8	53.98
SI2P15S	15.88	19.05	14.27	38.1	5/8-18	63.5	38.1	82.55
SI2P25S	25.4	34.93	25.4	69.85	5/4-12	104.78	53.98	139.7
SI2J4	4.83	7.92	5.94	15.88	10-32	26.97	12.7	34.93
SI2J9	9.53	12.7	9.12	25.4	3/8-24	41.28	19.05	53.98
SI2J12	12.7	15.88	11.5	33.32	1/2-20	53.98	25.4	70.64
SI2J19	19.05	22.23	15.06	44.45	3/4-16	73.03	34.93	95.25
SI5C	5	6	4.5	21	M5	30	11	40.5
SI12C	12	10	8.5	34	M12	50	18	67
SI17C	17	14	11.5	46	M16	67	24	90
SI30C	30	22	20	73	M30×2	110	45	146.5
SI35ET-2RS	35	25	22	82	M36×3	125	60	166
SI45ET-2RS	45	32	28	102	M42×3	145	65	196
SI60ET-2RS	60	44	39	135	M52×3	175	70	242.5
SI80ET-2RS	80	55	48	180	M64×4	230	85	320
SIJK5C	5	8	7.5	18	M5	27	8	36
SIJK10C	10	14	11.5	30	M10	43	15	58
SIJK22C	22	28	21	56	M22×1.5	84	33	112
SIJK30C	30	37	27	70	M30×1.5	110	45	145

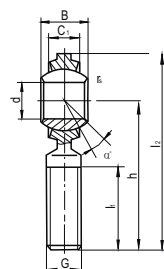


Type SI2J ...

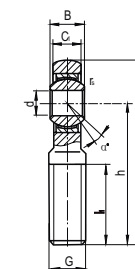
Boundary Dimensions						Load Ratings		Mass
l ₅ max	W	d ₃ max	d ₄ max	r _s min	α°≈	Dynamic	Static	
						kN		kg
						mm		
5	10	10	13	0.3	13	3.4	8.1	0.016
5	13	13	16	0.3	15	5.5	12.9	0.035
7	18	19	22	0.3	10	10	24.5	0.096
8	21	21	26	0.3	8	16	36	0.162
18	60	52	65	0.6	7	99	180	206
25	95	95	110	1	6	400	750	13.04
4	9	9	11	0.3	13	3.3	4.1	0.016
8	22	22	27	0.6	15	21	25	0.225
12	32	30	37	0.6	15	38	43	0.488
15	41	40	50	0.6	17	63	86	1.13
4.75	7.92	7.54	10.31	0.3	10	3.4	4.6	0.015
6.35	14.27	13.89	17.45	0.6	9	9.4	10	0.061
7.92	22.23	21.84	25.4	0.6	11	20	21	0.19
11.1	38.1	37.72	44.45	0.6	14	60	101	1
4.75	7.92	7.54	10.31	0.3	10	3.6	6.8	0.018
6.35	14.27	13.89	17.45	0.6	11	11	16	0.059
6.35	19.05	18.67	22.23	0.6	10	18	28	0.132
7.92	25.4	25.02	28.58	0.6	12	34	44	0.295
5	10	10	13	0.3	13	3.6	8.1	0.016
7	18	19	22	0.3	10	11	24.5	0.096
10	27	25	29	0.3	10	22	45	0.23
15	46	42	50	0.6	6	65	110	0.97
15	55	48	58	0.6	6	112	146	1.5
20	65	58	70	0.6	7	180	240	2.7
20	80	70	88	1	6	345	450	5.6
25	95	95	110	1	6	567	750	13
4	10	9	12	0.3	4	3.6	4.6	0.016
6.5	16	15	19	0.6	10	12	15	0.088
12	34	30	37	0.6	14	42	50	0.61
15	46	40	50	0.6	15	73	77	1.4



Type SA...ES



Type SAZJ ...



Type SAJK...C

Bearing Designations	Boundary Dimensions				
	d	B	C ₁ max	d ₁ max	G eq
	mm				
SA5E	5	6	4.5	21	M5
SA12E	12	10	8.5	34	M12
SA15ESD	15	12	10.5	40	M14
SA20ES	20	16	13.5	53	M20×1.5
SA45ES	45	32	28	102	M42×3
SA80ES	80	55	48	180	M64×4
SABP5S	5	8	6	16	M5
SABP10S	10	14	10.5	26	M10
SABP18S	18	23	16.5	42	M18×1.5
SABP22S	22	28	20	50	M22×1.5
SABP30S	30	37	25	70	M30×2
SAZP4S	4.83	7.92	6.35	15.88	10-32
SAZP9S	9.53	12.7	10.31	25.4	3/8-24
SAZP15S	15.88	19.05	14.27	38.1	5/8-18
SAZP25S	25.4	34.93	25.4	69.85	5/4-12
SAZJ4	4.83	7.92	5.94	15.88	10-32
SAZJ12	12.7	15.88	11.5	33.32	1/2-20
SAZJ19	19.05	22.23	15.06	44.45	3/4-16
SA5C	5	6	4.5	21	M5
SA12C	12	10	8.5	34	M12
SA17C	17	14	11.5	46	M16
SA30C	30	22	20	73	M30×2
SA35ET-2RS	35	25	22	82	M36×3
SA45ET-2RS	45	32	28	102	M42×3
SA60ET-2RS	60	44	39	135	M52×3
SA80ET-2RS	80	55	48	180	M64×4
SAJK5C	5	8	7.5	18	M5
SAJK16C	16	21	15.5	42	M16
SAJK22C	22	28	21	56	M22×1.5
SAJK30C	30	37	27	70	M30×2

Boundary Dimensions						Load Ratings		Mass
h	l ₁ min	l ₂ max	r ₁ min	α° ≈		Dynamic	Static	
	mm					kN		kg
36	16	46.5	0.3	13		3.4	3.9	0.011
54	28	71	0.3	10		10	23	0.066
63	34	83	0.3	8		16	32	0.121
78	43	104.5	0.3	9		30	60	0.283
163	92	214	0.6	7		127	240	2.57
270	140	360	1	6		400	750	12.06
33	20	41	0.3	13		3.3	3.9	0.016
48	29	61	0.6	14		10	11	0.072
72	44	93	0.6	15		26	30	0.295
84	51	109	0.6	15		38	43	0.488
110	66	145	0.6	17		63	86	1.13
31.75	19.05	39.7	0.3	10		3.4	3.8	0.013
49.23	31.75	61.93	0.6	9		9.4	10	0.055
66.68	41.28	85.73	0.6	11		20	21	0.18
104.78	53.98	139.7	0.6	14		60	101	1.1
31.75	19.05	39.7	0.3	10		3.6	3.8	0.014
61.93	38.1	78.59	0.6	10		18	28	0.11
73.03	44.45	95.25	0.6	12		34	44	0.26
36	16	46.5	0.3	13		3.6	3.9	0.011
54	28	71	0.3	10		11	23	0.066
69	36	92	0.3	10		22	44	0.17
110	65	146.5	0.6	6		65	110	0.84
140	82	181	0.6	6		112	146	1.4
163	92	214	0.6	7		180	240	2.5
210	115	277.5	1	6		345	450	5.7
270	140	360	1	6		567	750	12
33	19	42	0.3	4		3.6	3.9	0.013
66	37	87	0.6	14		23	29	0.22
84	48	112	0.6	14		42	50	0.49
110	66	145	0.6	15		73	77	1.1



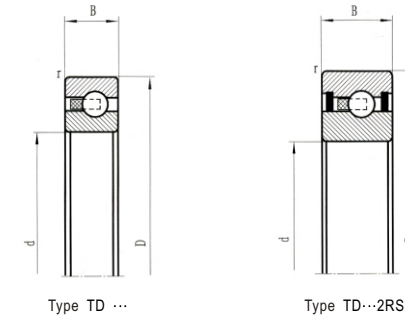
Other Special Bearings

thin section bearings

Thin Section Bearings

This series of bearings have a very thin ring and a small cross section, and its features are light weight, low friction, high rigidity and relatively high rotation precision. It is especially suitable for compact light configuration with relatively high rigidity and bigger bore diameter. LYC thin-section bearings are used widely in Aircraft, Aerospace, Textile printer, Medical devices, Radar Communication, Astronomy instrumentation and Industrial robotics etc.

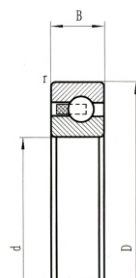
Bearing Designations	Boundary Dimensions				
	d		D	B	r _s min
	mm	inch		mm	
TD61100A	24.5	1	34.925	4.762	0.4
TD61108A	38.1	1-1/2	47.625	4.762	0.4
TD62200A	50.8	2	63.5	6.35	0.65
TD63200A	50.8	2	66.675	7.938	1.1
TD62208A	63.5	2-1/2	76.2	6.35	0.65
TD63208A	63.5	2-1/2	79.375	7.938	1.1
TD62300A	76.2	3	88.9	6.35	0.65
TD63308A	88.9	3-1/2	104.775	7.938	1.1
TD64400A	101.6	4	120.65	9.525	1.1
TF65404-2RS-A	107.95	4-1/4	127	12.7	0.4
TD67404A	107.95	4-1/4	146.05	19.05	2.1
TD63408M	114.3	4-1/2	130.175	7.938	1.1
TD66408A	114.3	4-1/2	139.7	12.7	1.6
TD62500M	127	5	139.7	6.35	0.65
TD64500A	127	5	146.05	9.525	1.1
TD66508A	139.7	5-1/2	165.1	12.7	1.6
TD68608A	139.7	5-1/2	190.5	25.4	2.1
TF65600-2RS-M	152.4	6	171.45	12.7	0.4
TD67608A	165.1	6-1/2	203.2	19.05	2.1
TD68508A	165.1	6-1/2	215.9	25.4	2.1
TD62700M	177.8	7	190.5	6.35	0.65
TD64700A	177.8	7	196.85	9.525	1.1
TD66708M	190.5	7-1/2	215.9	12.7	1.6
TD68708A	190.5	7-1/2	241.3	25.4	2.1
TD63800M	203.2	8	219.075	7.938	1.1
TF65800-2RS-M	203.2	8	222.25	12.7	0.4
TD67900A	228.6	9	266.7	19.05	2.1
TD661000M	254	10	279.4	12.7	1.6
TD641100M	279.4	11	298.4	9.525	1.1
TF651200-2RS-M	304.8	12	323.85	12.7	0.4
TD681400A	355.6	14	406.4	25.4	2.1



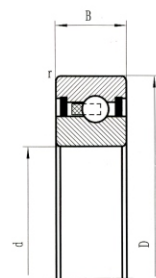
Limiting Speeds		Load Ratings		Mass
Grease	Oil	Dynamic	Static	
r/min		kN		kg
18000	28000	2.5	1.76	0.012
9500	15000	2.8	2.32	0.018
7500	11000	4.5	3.9	0.041
8000	12000	6.4	5.2	0.065
5300	7500	4.9	4.65	0.05
6000	8500	6.95	6.2	0.079
4000	5600	5.2	5.4	0.059
3600	5000	7.8	8.15	0.107
3200	4500	10.4	11	0.178
2000	-	10.6	11.6	0.267
4300	6000	29	26.5	0.816
2600	3800	8.5	10.2	0.149
3000	4300	16.3	17	0.361
2200	3400	6.2	8.5	0.104
2400	3600	11.2	13.2	0.219
2400	3600	17.6	20	0.433
3200	4500	46.5	45	1.89
1300	-	11.8	15.6	0.394
2200	3400	33.5	36.5	1.18
2600	3800	50	51	2.19
1400	2000	6.95	11.6	0.144
1500	2200	12.5	18	0.331
1500	2200	19.6	26	0.641
2000	3200	53	57	2.48
1200	1800	10.4	17.3	0.257
900	-	13.2	20	0.517
1400	2000	37.5	48	1.59
1100	1700	21.6	34	0.842
900	1400	14.6	27	0.511
560	-	15	29	0.764
850	1300	65.5	98	4.38



Other Special Bearings
thin section bearings

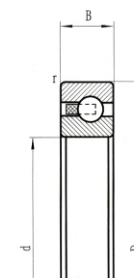


Type TD ...

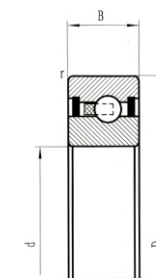


Type TD...2RS

Bearing Designations	Boundary Dimensions				
	d		D	B	r _s min
	mm	inch	mm		
TD681600A	406.4	16	457.2	25.4	2.1
TD681800M	457.2	18	508	25.4	2.1
TD72200M	50.8	2	63.5	6.35	0.65
TD73208M	63.5	2-1/2	79.375	7.938	1.1
TD72300M	76.2	3	88.9	6.35	0.65
TD73308M	88.9	3-1/2	104.775	7.938	1.1
TD74400M	101.6	4	120.65	9.525	1.1
TD76404M	107.95	4-1/4	133.35	12.7	1.6
TD72408M	114.3	4-1/2	127	6.35	0.65
TD73412M	120.65	4-3/4	136.525	7.938	1.1
TD74500M	127	5	146.05	9.525	1.1
TD76508M	139.7	5-1/2	165.1	12.7	1.6
TD77600M	152.4	6	190.5	19.05	2.1
TD78608M	165.1	6-1/2	215.9	25.4	2.1
TD73700M	177.8	7	193.675	7.938	1.1
TD77800M	203.2	8	241.3	19.05	2.1
TD78900M	228.6	9	279.4	25.4	2.1
TD771000M	254	10	292.1	19.05	2.1
TD771200M	304.8	12	342.9	19.05	2.1
TD781400M	355.6	14	406.4	25.4	2.1



Type TD ...

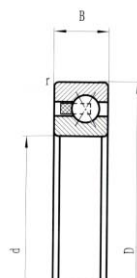


Type TD...2RS

Limiting Speeds		Load Ratings		Mass
Grease	Oil	Dynamic	Static	
r/min		kN		kg
700	1000	69.5	110	4.97
600	850	72	122	6.15
10000	15000	4.75	4.4	0.046
8000	11000	7.35	7.2	0.088
5600	7500	5.4	6.2	0.066
5000	6700	8.15	9.8	0.12
4500	6000	11.2	13.2	0.201
4500	6000	17	18.3	0.386
3400	4500	6.3	8.8	0.097
3400	4500	9.15	12.5	0.159
3400	4500	12.2	16.3	0.247
3200	4300	18.3	22.8	0.488
3400	4500	34.5	40.5	1.25
3400	4500	53	60	2.48
2200	3200	10.4	17.6	0.23
2200	3200	38	51	1.62
2200	3200	60	76.5	3.32
1700	2400	41.5	63	1.99
1300	1800	44	73.5	2.36
1200	1700	69.5	112	4.98



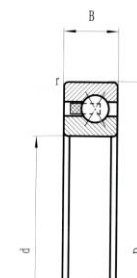
Other Special Bearings
thin section bearings



Type TDQJ ...

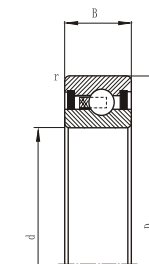
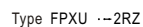
Bearing Designations	Boundary Dimensions			
	d		D	B
	r _{s min}			
	mm	inch	mm	
TDQJ1100A	25.4	1	34.925	4.762
TDQJ1108A	38.1	1-1/2	47.625	7.625
TDQJ2200A	50.8	2	63.5	6.35
TDQJ3208A	63.5	2-1/2	79.375	7.938
TDQJ2300A	76.2	3	88.9	6.35
TDQJ2308M	88.9	3-1/2	101.6	6.35
TDQJ4400A	101.6	4	120.65	9.525
TFQJ5404-2RS-A	107.95	4-1/4	127	12.7
TDQJ6408A	114.3	4-1/2	139.7	12.7
TDQJ7412A	120.65	4-3/4	158.75	19.05
TDQJ8500A	127	5	177.8	25.4

LYC®



Type TDQJ ...

Limiting Speeds		Load Ratings		Mass
Grease	Oil	Dynamic	Static	
r/min		kN		kg
10000	13000	2.55	1.86	0.012
6300	7500	2.9	2.6	0.017
4500	5300	4.65	4.3	0.04
3600	4300	7.1	6.95	0.079
2800	3400	5.3	6.3	0.058
2400	3000	5.6	7.35	0.067
2000	2600	10.6	12.7	0.176
1300	-	10.85	13.4	0.248
1800	2200	16.6	19.3	0.358
1700	2000	31	31.5	0.885
1700	2000	48	45	1.72

[illegible]