



Sliding Bearings C2013



www.kml-bearing.com

***K*keep *M*Moving *L*Long**



WARRANTY

Any bearing, which if properly selected, installed and used, shows defect upon **KML** laboratory analysis, due to faulty workmanship and/or material, shall be replaced free of charge provided such defect occurs within one year of delivery date.

Claims for labour or incidental damage shall not be allowed.

This warranty is in lieu of all warranties of merchantability, fitness for purpose, or all other warranties, expressed or implied.

KML shall not be liable for any special, indirect, or consequential damages. The remedies set forth herein are exclusive, and the liability of **KML** with respect to any contract or sale or anything done in connection therewith, in contract, in tort, under any warranty, or otherwise, shall not exceed the price of the bearing on which such liability is based.

COPYRIGHT

KML Motion Industries (ShangHai) Holding CO., Ltd.
November.2013

This new catalogue edition supersedes all previous editions.

The contents of this publication are the copyright of **KML** Motion Industries (ShangHai) Holding CO., Ltd. and may not be reproduced (even extracts) unless permission is granted in writing.

While every care has been taken to ensure the accuracy of the information contained in this publication, no liability can be accepted for any errors or omissions.

Listing in this publication does not necessarily imply product availability.



KML has always been adhering to the customer-centric philosophy since its establishment. With “Good quality, R&D, Global marketing, JIT service” as the core competitiveness, **KML** provided customers with one-stop service supported by effective management, strong technical force, advanced production facilities and constant quality control. The concept of the brand, **KML**, was incubated in Dortmund, Germany in 1980s. **KML** Company was officially established in 1981 in Hong Kong and gradually expanded into more than 70 countries and regions. **KML** now owns three subsidiaries in United States, Canada and China.

KML products are widely used in automobile, motorcycle, appliances, agricultural machinery, medicine, food and beverage processing, mining, energy, engineering, furniture industries etc.

To better meet customers’ diverse needs, **KML** strives to integrate optimal resources from bearing manufacturers in China, India and other parts of the world to form a highly-performed supply chain.

KML makes all efforts to help its global distributors and users gain maximum benefits and sustainable development by selling and using **KML** bearings, which makes **KML** a trusted brand.

CONTENTS

◆ Spherical plain bearings

Radial spherical plain bearings

Requiring maintenance type

GE···E, GE···ES, GE···ES-2RS Series	150
GEG···E, GEG···ES, GEG···ES-2RS Series	151
GEEW···ES, GEEM···ES-2RS Series	152
GEZ···ES, GEZ···ES-2RS Series	153
GEGZ···ES, GEGZ···ES-2RS Series	154
GEWZ···ES, GEWZ···ES-2RS Series	155
GEBJ···S, GEBK···S Series	156

Maintenance-free type

GE···C, GEG···C Series	157
GE···ET-2RS, GE···XT-2RS Series	158
GEG···ET-2RS, GEG···XT-2RS Series	159
GEZ···ET-2RS, Series	160

Angular contact spherical plain bearings

Requiring maintenance type

GAC···S Series	161
GACZ···S Series	162

Maintenance-free type

GAC···T Series	163
----------------	-----

Thrust Spherical plain bearings

Requiring maintenance type

GX···S Series	164
---------------	-----

Maintenance-free type

GX···T Series	165
---------------	-----

Rod ends

Requiring maintenance type

SI···E, SI···ES Series	166
SA···E, SA···ES Series	167
SAZJ···S, SIZJ···S Series	168
SIBP···S, SABP···S Series	169
SAZP···S, SIZP···S Series	170

Maintenance-free type

SIJK···C; SAJK···C Series	171
SI···C, SI···ET-2RS Series	172
SA···C, SA···ET-2RS Series	173

Ball joint rod end

SQZ···RS Series	174
SQ···RS Series	175

CONTENTS

◆ Linear Bearings

Linear motion ball slide units

SBR Series 178

SBR····UU Series 179

SCS····UU Series 179

SH····A Series 180

Cylinder linear rails

WC,WCS Series 180

Linear bearing

LME····UU,LME····UU-AJ,LME····UU-OP Series 181

LMB····UU,LMB····UU-AJ,LMB····UU-OP Series 181

◆ Flange linear bearings

LMEF····UU,LMEK····UU Series 182

◆ Sliding Bearings

SF-1 Dry Bushes 183

◆ Bearings Accessories

Ball 184

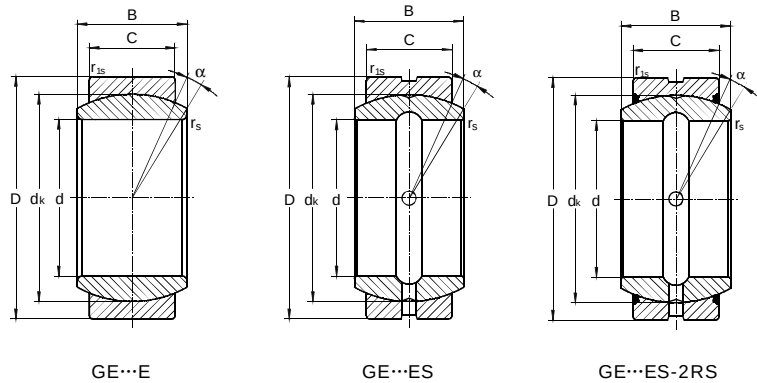
Needle rollers 185

Adapter sleeves 186



Radial Spherical Plain Bearings Requiring maintenance type

GE...E, GE...ES, GE...ES-2RS Series
Sliding Contact Surfaces: Steel/Steel



GE...E

GE...ES

GE...ES-2RS

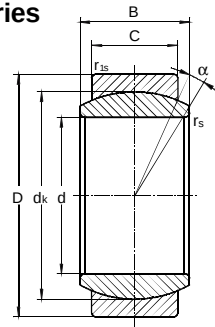
KML No.		Boundary dimensions mm								Basic load ratings KN		Mass kg
		d	D	B	C	dk	rs min	rs1 min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
GE4E	-	4	12	5	3	8	0.3	0.3	16	2	10	0.003
GE5E	-	5	14	6	4	10	0.3	0.3	13	3.4	17	0.005
GE6E	-	6	14	6	4	10	0.3	0.3	13	3.4	17	0.004
GE8E	-	8	16	8	5	13	0.3	0.3	15	5.5	27	0.008
GE10E	-	10	19	9	6	16	0.3	0.3	12	8.1	40	0.011
GE12E	-	12	22	10	7	18	0.3	0.3	10	10	53	0.015
GE15ES	GE15ES-2RS	15	26	12	9	22	0.3	0.3	8	16	84	0.027
GE17ES	GE17ES-2RS	17	30	14	10	25	0.3	0.3	10	21	106	0.041
GE20ES	GE20ES-2RS	20	35	16	12	29	0.3	0.3	9	30	146	0.066
GE25ES	GE25ES-2RS	25	42	20	16	35.5	0.6	0.6	7	48	240	0.119
GE30ES	GE30ES-2RS	30	47	22	18	40.7	0.6	0.6	6	62	310	0.153
GE35ES	GE35ES-2RS	35	55	25	20	47	0.6	1	6	79	399	0.233
GE40ES	GE40ES-2RS	40	62	28	22	53	0.6	1	7	99	495	0.306
GE45ES	GE45ES-2RS	45	68	32	25	60	0.6	1	7	127	637	0.427
GE50ES	GE50ES-2RS	50	75	35	28	66	0.6	1	6	156	780	0.546
GE55ES	GE55ES-2RS	55	85	40	32	74	0.6	1	7	200	1000	0.939
GE60ES	GE60ES-2RS	60	90	44	36	80	1	1	6	245	1220	1.04
GE70ES	GE70ES-2RS	70	105	49	40	92	1	1	6	313	1560	1.55
GE80ES	GE80ES-2RS	80	120	55	45	105	1	1	6	400	2000	2.31
GE90ES	GE90ES-2RS	90	130	60	50	115	1	1	5	488	2440	2.75
GE100ES	GE100ES-2RS	100	150	70	55	130	1	1	7	607	3030	4.45
GE110ES	GE110ES-2RS	110	160	70	55	140	1	1	6	654	3270	4.82
GE120ES	GE120ES-2RS	120	180	85	70	160	1	1	6	950	4750	8.05
GE140ES	GE140ES-2RS	140	210	90	70	180	1	1	7	1070	5350	11.02
GE160ES	GE160ES-2RS	160	230	105	80	200	1	1	8	1360	6800	14.01
GE180ES	GE180ES-2RS	180	260	105	80	225	1.1	1.1	6	1530	7650	18.65
GE200ES	GE200ES-2RS	200	290	130	100	250	1.1	1.1	7	2120	10600	28.03
GE220ES	GE220ES-2RS	220	320	135	100	275	1.1	1.1	8	2320	11600	35.51
GE240ES	GE240ES-2RS	240	340	140	100	300	1.1	1.1	8	2550	12700	39.91
GE260ES	GE260ES-2RS	260	370	150	110	325	1.1	1.1	7	3030	15190	51.54
GE280ES	GE280ES-2RS	280	400	155	120	350	1.1	1.1	6	3570	17850	65.06
GE300ES	GE300ES-2RS	300	430	165	120	375	1.1	1.1	7	3800	19100	78.07



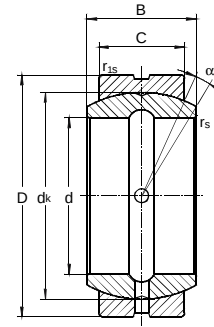
Radial Spherical Plain Bearings Requiring maintenance type

GEG...E, GEG...ES, GEG...ES-2RS Series

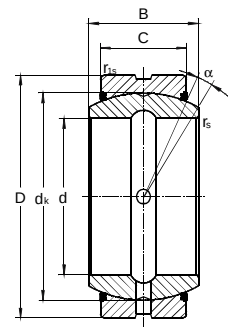
Sliding Contact Surfaces: Steel/Steel



GEG...E



GEG...ES



GEG...ES-2RS

KML No.		Boundary dimensions mm								Basic load ratings kN		Mass kg
		d	D	B	C	d _k	r _s min	r _s min	α° ≈	Dynamic C _r	Static C _{or}	
GEG4E	-	4	14	7	4	10	0.3	0.3	20	3.4	17	0.005
GEG5E	-	5	16	9	5	13	0.3	0.3	21	5.5	27	0.008
GEG6E	-	6	16	9	5	13	0.3	0.3	21	5.5	27	0.006
GEG8E	-	8	19	11	6	16	0.3	0.3	21	8.1	40	0.014
GEG10E	-	10	22	12	7	18	0.3	0.3	18	10	53	0.021
GEG12E	-	12	26	15	9	22	0.3	0.3	18	16	84	0.033
GEG15E	GEG15E-2RS	15	30	16	10	25	0.3	0.3	16	21	106	0.049
GEG17E	GEG17E-2RS	17	35	20	12	29	0.3	0.3	19	30	146	0.083
GEG20ES	GEG20ES-2RS	20	42	25	16	35.5	0.3	0.6	17	48	240	0.153
GEG25ES	GEG25ES-2RS	25	47	28	18	40.7	0.6	0.6	17	62	310	0.203
GEG30ES	GEG30ES-2RS	30	55	32	20	47	0.6	1	17	79	399	0.304
GEG35ES	GEG35ES-2RS	35	62	35	22	53	0.6	1	16	99	495	0.408
GEG40ES	GEG40ES-2RS	40	68	40	25	60	0.6	1	17	127	637	0.542
GEG45ES	GEG45ES-2RS	45	75	43	28	66	0.6	1	15	156	780	0.713
GEG50ES	GEG50ES-2RS	50	90	56	36	80	0.6	1	17	245	1220	1.14
GEG60ES	GEG60ES-2RS	60	105	63	40	92	1	1	17	313	1560	2.05
GEG70ES	GEG70ES-2RS	70	120	70	45	105	1	1	16	400	2000	3.01
GEG80ES	GEG80ES-2RS	80	130	75	50	115	1	1	14	488	2440	3.64
GEG90ES	GEG90ES-2RS	90	150	85	55	130	1	1	15	607	3030	5.22
GEG100ES	GEG100ES-2RS	100	160	85	55	140	1	1	14	654	3270	6.05
GEG110ES	GEG110ES-2RS	110	180	100	70	160	1	1	12	950	4750	9.68
GEG120ES	GEG120ES-2RS	120	210	115	70	180	1	1	16	1070	5350	14.01
GEG140ES	GEG140ES-2RS	140	230	130	80	200	1	1	16	1360	6800	19.01
GEG160ES	GEG160ES-2RS	160	260	135	80	225	1.1	1.1	16	1530	7650	24.70
GEG180ES	GEG180ES-2RS	180	290	155	100	250	1.1	1.1	14	2120	10600	35.90
GEG200ES	GEG200ES-2RS	200	320	165	100	275	1.1	1.1	15	2320	11600	45.28
GEG220ES	GEG220ES-2RS	220	340	175	100	300	1.1	1.1	16	2550	12700	51.12
GEG240ES	GEG240ES-2RS	240	370	190	110	325	1.1	1.1	15	3030	15190	65.12
GEG260ES	GEG260ES-2RS	260	400	205	120	350	1.1	1.1	15	3570	17850	82.44
GEG280ES	GEG280ES-2RS	280	430	210	120	375	1.1	1.1	15	3800	19100	97.21

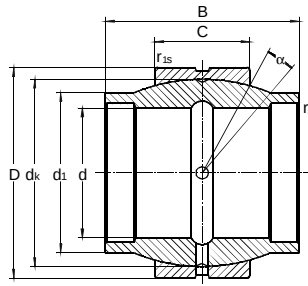
Radial Spherical Plain Bearings

Requiring maintenance type

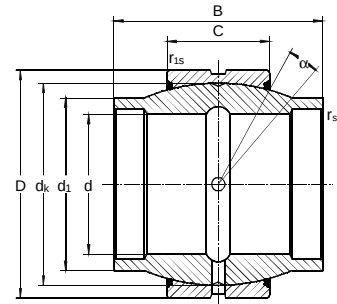
GEEW...ES Series

GEEM...ES-2RS Series

Sliding contact surfaces: Steel/Steel



GEEW...ES



GEEM...ES-2RS

KML No.	Boundary dimensions mm									Basic load ratings KN		Mass kg
	d	D	B	C	d ₁ max	dk	r _s min	r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GEEW12ES*	12	22	12	7	15.5	18	0.3	0.3	4	10	53	0.022
GEEW15ES	15	26	15	9	18.5	22	0.3	0.3	5	16	84	0.031
GEEW16ES	16	28	16	9	20	23	0.3	0.3	4	17	85	0.035
GEEW17ES	17	30	17	10	21	25	0.3	0.3	7	21	106	0.044
GEEW20ES	20	35	20	12	25	29	0.3	0.3	4	30	146	0.071
GEEW25ES	25	42	25	16	30.5	35.5	0.6	0.6	4	48	240	0.131
GEEW30ES	30	47	30	18	34	40.7	0.6	0.6	4	62	310	0.168
GEEW32ES	32	52	32	18	37	43	0.6	1	4	65	328	0.182
GEEW35ES	35	55	35	20	40	47	0.6	1	4	79	399	0.253
GEEW40ES	40	62	40	22	46	53	0.6	1	4	99	495	0.338
GEEW45ES	45	68	45	25	52	60	0.6	1	4	127	637	0.481
GEEW50ES	50	75	50	28	57	66	0.6	1	4	156	780	0.558
GEEW60ES	60	90	60	36	68	80	1	1	4	245	1220	1.15
GEEW63ES	63	95	63	36	71.5	83	1	1	4	253	1260	1.25
GEEW70ES	70	105	70	40	78	92	1	1	4	313	1560	1.71
GEEW80ES	80	120	80	45	91	105	1	1	4	400	2000	2.39
GEEW90ES	90	130	90	50	99	115	1	1	4	488	2440	3.21
GEEW100ES	100	150	100	55	113	130	1	1	4	607	3030	4.79
GEEW110ES	110	160	110	55	124	140	1	1	4	654	3270	5.78
GEEW125ES	125	180	125	70	138	160	1	1	4	950	4750	8.49
GEEW160ES	160	230	160	80	177	200	1	1	4	1360	6800	16.5
GEEW200ES	200	290	200	100	221	250	1.1	1.1	4	2120	10600	32.1
GEEW250ES	250	400	250	120	317	350	1.1	1.1	4	3750	17800	99.1
GEEW320ES	320	520	320	160	405	450	1.1	1.1	4	6200	30500	225

*A lubrication groove and hole is only on the outer ring.

Can supply spherical plain bearing with two seals for bore diameter $d \geq 15\text{mm}$

KML No.	Boundary dimensions mm									Basic load ratings KN		Mass kg
	d	D	B	C	d ₁ max	dk	r _s min	r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GEEM20ES-2RS	20	35	24	12	24	29	0.3	0.3	6	30	146	0.073
GEEM25ES-2RS	25	42	29	16	29	35.5	0.3	0.6	4	48	240	0.13
GEEM30ES-2RS	30	47	30	18	34	40.7	0.3	0.6	4	62	310	0.17
GEEM35ES-2RS	35	55	35	20	40	47	0.6	1	4	79	399	0.25
GEEM40ES-2RS	40	62	38	22	45	53	0.6	1	4	99	495	0.35
GEEM45ES-2RS	45	68	40	25	52	60	0.6	1	4	127	637	0.49
GEEM50ES-2RS	50	75	43	28	57	66	0.6	1	4	156	780	0.60
GEEM60ES-2RS	60	90	54	36	68	80	0.6	1	3	245	1220	1.15
GEEM70ES-2RS	70	105	65	40	78	92	0.6	1	4	313	1560	1.65
GEEM80ES-2RS	80	120	74	45	90	105	0.6	1	4	400	2000	2.50

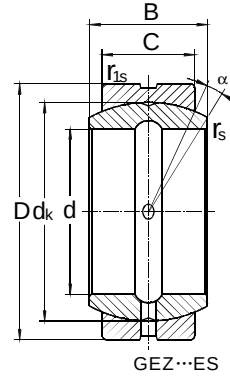


Radial Spherical Plain Bearings Requiring maintenance type

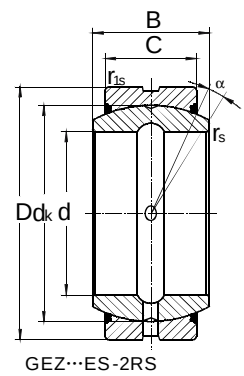
Inch Size

GEZ...ES, GEZ...ES-2RS Series

Sliding contact surfaces: steel/steel



GEZ...ES



GEZ...ES-2RS

KML No.		Boundary dimensions mm/Inch								Basic load ratings KN		Mass kg
		d	D	B	C	dk	r _{1s} min	r _s min	α°≈	Dynamic C _r	Static C _{0r}	
GEZ12ES	-	12.700 0.5	22.225 0.875	11.100 0.437	9.525 0.375	18 0.707	0.15 0.006	0.6 0.024	6	13	41	0.022
GEZ15ES	-	15.875 0.625	26.988 1.0625	13.894 0.547	11.913 0.469	23 0.904	0.15 0.006	0.6 0.024	6	22	65	0.036
GEZ19ES	GEZ19ES-2RS	19.050 0.75	31.750 1.25	16.662 0.656	14.275 0.562	27.5 1.081	0.3 0.012	0.6 0.024	6	31	95	0.053
GEZ22ES	GEZ22ES-2RS	22.225 0.875	36.513 1.4375	19.431 0.756	16.662 0.656	32 1.258	0.3 0.012	0.6 0.024	6	42	127	0.085
GEZ25ES	GEZ25ES-2RS	25.400 1	41.275 1.625	22.225 0.875	19.050 0.75	36.5 1.437	0.3 0.012	0.6 0.024	6	56	166	0.121
GEZ31ES	GEZ31ES-2RS	31.750 1.25	50.800 2	27.762 1.093	23.800 0.937	45.5 1.788	0.6 0.024	0.6 0.024	6	86	260	0.23
GEZ34ES	GEZ34ES-2RS	34.925 1.375	55.563 2.1875	30.150 1.187	26.187 1.031	49 1.926	0.6 0.024	1 0.04	6	102	310	0.35
GEZ38ES	GEZ38ES-2RS	38.100 1.5	61.913 2.4375	33.325 1.312	28.575 1.125	54.7 2.154	0.6 0.024	1 0.04	6	125	375	0.42
GEZ44ES	GEZ44ES-2RS	44.450 1.75	71.438 2.8125	38.887 1.531	33.325 1.312	63.9 2.511	0.6 0.024	1 0.04	6	170	510	0.64
GEZ50ES	GEZ50ES-2RS	50.800 2	80.963 3.1875	44.450 1.75	38.100 1.5	73 2.869	0.6 0.024	1 0.04	6	224	670	0.93
GEZ57ES	GEZ57ES-2RS	57.150 2.25	90.488 3.5625	50.013 1.969	42.850 1.687	82 3.223	0.6 0.024	1 0.04	6	280	850	1.3
GEZ63ES	GEZ63ES-2RS	63.500 2.5	100.013 3.9375	55.550 2.187	47.625 1.875	92 3.616	1 0.04	1 0.04	6	355	1060	1.85
GEZ69ES	GEZ69ES-2RS	69.850 2.75	111.125 4.375	61.112 2.406	52.375 2.062	100 3.937	1 0.04	1 0.04	6	415	1250	2.4
GEZ76ES	GEZ76ES-2RS	76.200 3	120.650 4.75	66.675 2.625	57.150 2.25	109.5 4.303	1 0.04	1 0.04	6	500	1500	3.1
GEZ82ES	GEZ82ES-2RS	82.550 3.25	130.175 5.125	72.238 2.844	61.900 2.437	119 4.685	1 0.04	1 0.04	6	585	1760	3.8
GEZ88ES	GEZ88ES-2RS	88.900 3.5	139.700 5.5	77.775 3.062	66.675 2.625	128 5.04	1 0.04	1 0.04	6	680	2040	4.8
GEZ95ES	GEZ95ES-2RS	95.250 3.75	149.225 5.875	83.337 3.281	71.425 2.812	137 5.393	1 0.04	1 0.04	6	780	2360	5.8
GEZ101ES	GEZ101ES-2RS	101.600 4	158.750 6.25	88.900 3.5	76.200 3	146 5.748	1 0.04	1 0.04	6	900	2650	7
GEZ107ES	GEZ107ES-2RS	107.950 4.25	168.275 6.625	94.463 3.719	80.950 3.187	155 6.102	1 0.04	1 0.04	6	1000	3000	8.41
GEZ114ES	GEZ114ES-2RS	114.300 4.5	177.800 7	100.013 3.937	85.725 3.375	164.5 6.476	1 0.04	1 0.04	6	1120	3400	9.8
GEZ120ES	GEZ120ES-2RS	120.650 4.75	187.325 7.375	105.562 4.156	90.475 3.562	173.5 6.83	1 0.04	1 0.04	6	1250	3750	11.5
GEZ127ES	GEZ127ES-2RS	127.000 5	196.850 7.75	111.125 4.375	95.250 3.75	183 7.204	1 0.04	1 0.04	6	1400	4150	13.5
GEZ152ES	GEZ152ES-2RS	152.400 6	222.250 8.75	120.65 4.75	104.775 4.125	207 8.15	1 0.04	1 0.04	5	1730	5200	17.5

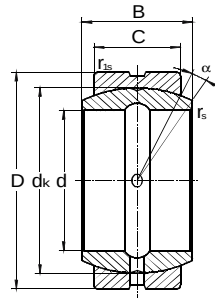
Radial Spherical Plain Bearings

Requiring maintenance type

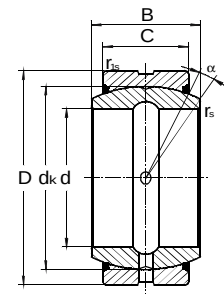
Inch Size

GEGZ...ES, GEGZ...ES-2RS Series

Sliding contact surfaces: Steel/Steel



GEGZ...ES



GEGZ...ES-2RS

KML No.		Boundary dimensions mm/Inch								Basic load ratings KN		Mass kg
		d	D	B	C	dk	rs min	r1s min	α° ≈	Dynamic Cr	Static Cor	
GEGZ31ES	GEGZ31ES-2RS	31.750 1.25	61.913 2.4375	35.306 1.39	28.575 1.125	54.7 2.155	0.6 0.024	1 0.04	15	125	375	0.454
GEGZ38ES	GEGZ38ES-2RS	38.100 1.5	71.438 2.8125	40.132 1.58	33.325 1.312	63.9 2.515	0.6 0.024	1 0.04	14	170	510	0.726
GEGZ44ES	GEGZ44ES-2RS	44.450 1.75	80.963 3.1875	46.228 1.82	38.100 1.5	73 2.875	0.6 0.024	1 0.04	14	224	670	1.14
GEGZ50ES	GEGZ50ES-2RS	50.800 2	90.488 3.5625	52.578 2.07	42.850 1.687	82 3.235	0.6 0.024	1 0.04	14	280	850	1.68
GEGZ57ES	GEGZ57ES-2RS	57.150 2.25	100.013 3.9375	58.877 2.318	47.625 1.875	92 3.59	0.6 0.024	1 0.04	14	355	1060	2.01
GEGZ63ES	GEGZ63ES-2RS	63.500 2.5	111.125 4.375	64.643 2.545	52.375 2.062	100 3.95	1 0.04	1 0.04	14	415	1250	2.95
GEGZ69ES	GEGZ69ES-2RS	69.850 2.75	120.650 4.75	70.866 2.79	57.150 2.25	109.5 4.312	1 0.04	1 0.04	14	500	1500	3.63
GEGZ76ES	GEGZ76ES-2RS	76.200 3	130.175 5.125	76.759 3.022	61.900 2.437	119 4.675	1 0.04	1 0.04	14	585	1760	4.36
GEGZ82ES	GEGZ82ES-2RS	82.550 3.25	139.700 5.5	82.931 3.265	66.675 2.625	128 5.04	1 0.04	1 0.04	14	680	2040	5.31
GEGZ88ES	GEGZ88ES-2RS	88.900 3.5	149.225 5.875	90.424 3.56	71.425 2.812	137 5.39	1 0.04	1 0.04	14	780	2360	6.81
GEGZ95ES	GEGZ95ES-2RS	95.250 3.75	158.750 6.25	94.945 3.738	76.200 3	146 5.75	1 0.04	1 0.04	14	900	2650	8.85
GEGZ101ES	GEGZ101ES-2RS	101.600 4	177.800 7	107.315 4.225	85.725 3.375	164.5 6.475	1 0.04	1 0.04	10	1120	3400	10.2
GEGZ114ES	GEGZ114ES-2RS	114.300 4.5	196.850 7.75	119.126 4.69	95.250 3.75	183 7.19	1 0.04	1 0.04	10	1400	4150	13.6
GEGZ139ES	GEGZ139ES-2RS	139.700 5.5	222.250 8.75	125.730 4.95	104.775 4.125	207 8.156	1 0.04	1 0.04	9	1730	5200	20.4



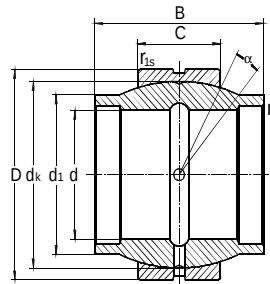
Radial Spherical Plain Bearings

Requiring maintenance type

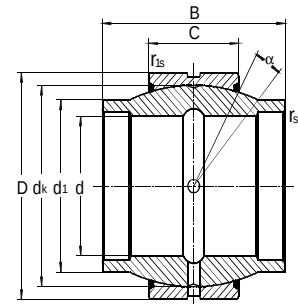
Inch Size

GEWZ...ES, GEWZ...ES-2RS Series

Sliding contact surfaces: steel/steel



GEWZ...ES



GEWZ...ES-2RS

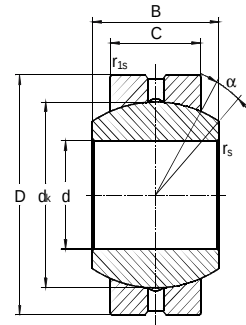
KML No.		Boundary dimensions mm/inch									Basic load ratings KN		Mass kg
		d	D	B	C	d ₁ max	dk	r _s min	r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GEWZ12ES	-	12.700 0.5	22.225 0.875	19.050 0.75	9.525 0.375	15.875 0.625	18 0.707	0.15 0.006	0.6 0.024	5	13	41	0.024
GEWZ15ES	-	15.875 0.625	26.988 1.0625	23.800 0.937	11.913 0.469	19.812 0.78	23 0.904	0.15 0.006	0.6 0.024	5	22	65	0.038
GEWZ19ES	GEWZ19ES-2RS	19.050 0.75	31.750 1.25	28.575 1.125	14.275 0.562	23.368 0.92	27.5 1.081	0.3 0.012	0.6 0.024	5	31	95	0.064
GEWZ22ES	GEWZ22ES-2RS	22.225 0.875	36.513 1.4375	33.325 1.312	16.662 0.656	27.178 1.07	32 1.258	0.3 0.012	0.6 0.024	5	42	127	0.098
GEWZ25ES	GEWZ25ES-2RS	25.400 1	41.275 1.625	38.100 1.5	19.050 0.75	30.988 1.22	36.5 1.437	0.3 0.012	0.6 0.024	5	56	166	0.142
GEWZ31ES	GEWZ31ES-2RS	31.750 1.25	50.800 2	47.625 1.875	23.800 0.937	38.735 1.525	45.5 1.791	0.6 0.024	0.6 0.024	5	86	260	0.271
GEWZ34ES	GEWZ34ES-2RS	34.925 1.375	55.563 2.1875	52.375 2.062	26.187 1.031	42.418 1.67	49 1.926	0.6 0.024	1 0.04	5	102	310	0.373
GEWZ38ES	GEWZ38ES-2RS	38.100 1.5	61.913 2.4375	57.150 2.25	28.575 1.125	46.99 1.85	54.7 2.154	0.6 0.024	1 0.04	5	125	375	0.494
GEWZ44ES	GEWZ44ES-2RS	44.450 1.75	71.438 2.8125	66.675 2.625	33.325 1.312	54.991 2.165	63.9 2.511	0.6 0.024	1 0.04	5	170	510	0.762
GEWZ50ES	GEWZ50ES-2RS	50.800 2	80.963 3.1875	76.200 3	38.100 1.5	62.484 2.46	73 2.869	0.6 0.024	1 0.04	5	224	670	1.11
GEWZ57ES	GEWZ57ES-2RS	57.150 2.25	90.488 3.5625	85.725 3.375	42.850 1.687	70.104 2.76	82 3.223	0.6 0.024	1 0.04	5	280	850	1.57
GEWZ63ES	GEWZ63ES-2RS	63.500 2.5	100.013 3.9375	95.250 3.75	47.625 1.875	77.724 3.06	92 3.616	1 0.04	1 0.04	5	355	1060	2.15
GEWZ69ES	GEWZ69ES-2RS	69.850 2.75	111.125 4.375	104.775 4.125	52.375 2.062	85.852 3.38	100 3.937	1 0.04	1 0.04	5	415	1250	2.9
GEWZ76ES	GEWZ76ES-2RS	76.200 3	120.650 4.75	114.300 4.5	57.150 2.25	93.345 3.675	109.5 4.303	1 0.04	1 0.04	5	500	1500	3.59
GEWZ82ES	GEWZ82ES-2RS	82.550 3.25	130.175 5.125	123.825 4.875	61.900 2.437	101.219 3.985	119 4.685	1 0.04	1 0.04	5	585	1760	4.69
GEWZ88ES	GEWZ88ES-2RS	88.900 3.5	139.700 5.5	113.350 5.25	66.675 2.625	109.22 4.3	128 5.04	1 0.04	1 0.04	5	680	2040	5.86
GEWZ95ES	GEWZ95ES-2RS	95.250 3.75	149.225 5.875	142.875 5.625	71.425 2.812	116.586 4.59	137 5.393	1 0.04	1 0.04	5	780	2360	7.11
GEWZ101ES	GEWZ101ES-2RS	101.600 4	158.750 6.25	152.400 6	76.200 3	124.587 4.905	146 5.748	1 0.04	1 0.04	5	900	2650	8.56
GEWZ114ES	GEWZ114ES-2RS	114.300 4.5	177.800 7	171.450 6.75	85.725 3.375	140.335 5.525	164.5 6.476	1 0.04	1 0.04	5	1120	3400	12.24
GEWZ127ES	GEWZ127ES-2RS	127.000 5	196.850 7.75	190.500 7.5	95.250 3.75	155.705 6.13	183 7.204	1 0.04	1 0.04	5	1400	4150	16.63
GEWZ152ES	GEWZ152ES-2RS	152.400 6	222.250 8.75	209.550 8.25	104.775 4.125	178.308 7.02	207 8.15	1 0.04	1 0.04	5	1730	5200	20.7

Radial Spherical Plain Bearings

Requiring maintenance type

GEBJ...S Series

Sliding contact surfaces: Steel/Steel



GEBJ...S Series

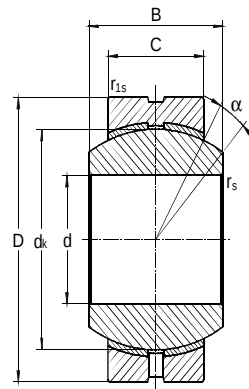
KML No.	Boundary dimensions mm								Basic load ratings KN		Mass kg
	d	D	B	C	d _k	r _s min	r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GEBJ5S	5	13	8	6	11.112	0.3	0.3	13	3.2	9	0.007
GEBJ6S	6	16	9	6.75	12.7	0.3	0.3	13	4.1	12	0.010
GEBJ8S	8	19	12	9	15.88	0.3	0.3	13	6.5	20	0.016
GEBJ10S	10	22	14	10.5	19.05	0.3	0.6	13	9.6	28	0.031
GEBJ12S	12	26	16	12	22.23	0.3	0.6	13	12	37	0.055
GEBJ14S	14	28	19	13.5	25.4	0.3	0.6	15	16	49	0.078
GEBJ16S	16	32	21	15	28.58	0.3	0.6	15	20	61	0.095
GEBJ18S	18	35	23	16.5	31.75	0.6	0.6	15	25	74	0.140
GEBJ20S	20	40	25	18	34.93	0.6	0.6	15	30	89	0.180
GEBJ22S	22	42	28	20	38.1	0.6	0.6	15	36	108	0.210
GEBJ25S	25	47	31	22	42.86	0.6	0.6	15	45	130	0.350
GEBJ30S	30	55	37	25	50.8	0.6	0.6	15	61	178	0.560

Radial Spherical Plain Bearings

Requiring maintenance type

GEBK...S Series

Sliding contact surfaces: Steel/Bronze



GEBK...S

KML No.	Boundary dimensions mm								Basic load ratings KN		Mass kg
	d	D	B	C	d _k	r _s min	r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GEBK5S	5	16	8	6	11.112	0.3	0.3	13	3.3	7.8	0.009
GEBK6S	6	18	9	6.75	12.7	0.3	0.3	13	4.3	9.8	0.013
GEBK8S	8	22	12	9	15.88	0.3	0.3	14	6.8	16	0.024
GEBK10S	10	26	14	10.5	19.05	0.3	0.6	14	10	23	0.039
GEBK12S	12	30	16	12	22.23	0.3	0.6	13	13	31	0.058
GEBK14S	14	34	19	13.5	25.4	0.3	0.6	16	17	40	0.084
GEBK16S	16	38	21	15	28.58	0.3	0.6	15	21	50	0.111
GEBK18S	18	42	23	16.5	31.75	0.6	0.6	15	26	61	0.160
GEBK20S	20	46	25	18	34.93	0.6	0.6	15	31	73	0.210
GEBK22S	22	50	28	20	38.1	0.6	0.6	15	38	88	0.260
GEBK25S	25	56	31	22	42.86	0.6	0.6	15	47	110	0.390
GEBK28S	28	62	35	25	47.63	0.6	0.6	15	59	138	0.530
GEBK30S	30	66	37	25	50.8	0.6	0.6	17	63	148	0.610

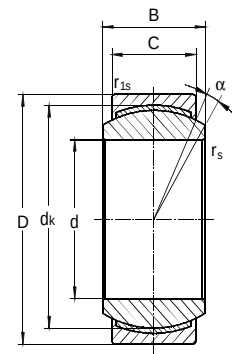


Radial Spherical Plain Bearings

Maintenance-Free type

GE...C, GEG...C Series

Sliding contact surfaces: Steel/PTFE composite material



GE...C
GEG...C

KML No.	Boundary dimensions mm								Basic load ratings KN		Mass kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	Dynamic Cr	Static Cor	
GE4C	4	12	5	3	8	0.3	0.3	16	2.1	5.4	0.003
GE5C	5	14	6	4	10	0.3	0.3	13	3.6	9.1	0.005
GE6C	6	14	6	4	10	0.3	0.3	13	3.6	9.1	0.004
GE8C	8	16	8	5	13	0.3	0.3	15	5.8	14	0.008
GE10C	10	19	9	6	16	0.3	0.3	12	8.6	21	0.011
GE12C	12	22	10	7	18	0.3	0.3	10	11	28	0.015
GE15C	15	26	12	9	22	0.3	0.3	8	18	45	0.027
GE17C	17	30	14	10	25	0.3	0.3	10	22	56	0.041
GE20C	20	35	16	12	29	0.3	0.3	9	31	78	0.066
GE25C	25	42	20	16	35.5	0.6	0.6	7	51	127	0.119
GE30C	30	47	22	18	40.7	0.6	0.6	6	65	166	0.163
GEG4C	4	14	7	4	10	0.3	0.3	20	3.6	9.1	0.005
GEG5C	5	16	9	5	13	0.3	0.3	21	5.8	14	0.008
GEG6C	6	16	9	5	13	0.3	0.3	21	5.8	14	0.006
GEG8C	8	19	11	6	16	0.3	0.3	21	8.6	21	0.014
GEG10C	10	22	12	7	18	0.3	0.3	18	11	28	0.021
GEG12C	12	26	15	9	22	0.3	0.3	18	18	45	0.033
GEG15C	15	30	16	10	25	0.3	0.3	16	22	56	0.049
GEG17C	17	35	20	12	29	0.3	0.3	19	31	78	0.083
GEG20C	20	42	25	16	35.5	0.3	0.3	17	51	127	0.153
GEG25C	25	47	28	18	40.7	0.6	0.6	17	65	166	0.203
GEG30C	30	55	32	20	47	0.6	0.6	17	83	212	0.304

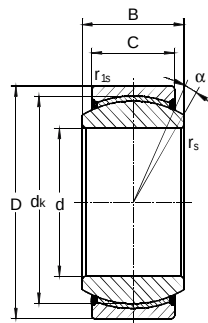
Radial Spherical Plain Bearings

Maintenance-Free type

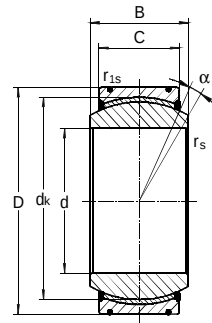
GE...ET-2RS Series

GE...XT-2RS Series

Sliding contact surfaces: Steel/PTFE fabric



GE...ET-2RS



GE...XT-2RS

KML No.	Boundary dimensions mm								Basic load ratings KN		Mass kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	Dynamic Cr	Static Cor	
GE15ET-2RS	15	26	12	9	22	0.3	0.3	8	25	50	0.027
GE17ET-2RS	17	30	14	10	25	0.3	0.3	10	32	64	0.041
GE20ET-2RS	20	35	16	12	29	0.3	0.3	9	45	90	0.066
GE25ET-2RS	25	42	20	16	35.5	0.6	0.6	7	85	170	0.119
GE30ET-2RS	30	47	22	18	40.7	0.6	0.6	6	110	220	0.153
GE35ET-2RS	35	55	25	20	47	0.6	1	6	140	280	0.233
GE40ET-2RS	40	62	28	22	53	0.6	1	7	175	350	0.306
GE45ET-2RS	45	68	32	25	60	0.6	1	7	225	450	0.427
GE50ET-2RS	50	75	35	28	66	0.6	1	6	275	550	0.546
GE55ET-2RS	55	85	40	32	74	0.6	1	7	355	710	0.939
GE60ET-2RS	60	90	44	36	80	1	1	6	430	860	1.04
GE70ET-2RS	70	105	49	40	92	1	1	6	550	1100	1.55
GE80ET-2RS	80	120	55	45	105	1	1	6	705	1410	2.31
GE90ET-2RS	90	130	60	50	115	1	1	5	860	1720	2.75
GE100ET-2RS	100	150	70	55	130	1	1	7	1070	2140	4.45
GE110ET-2RS	110	160	70	55	140	1	1	6	1150	2300	4.82
GE120ET-2RS	120	180	85	70	160	1	1	6	1680	3360	8.05

GE140XT-2RS	140	210	90	70	180	1	1	7	1890	3780	11.02
GE160XT-2RS	160	230	105	80	200	1	1	8	2400	4800	14.01
GE180XT-2RS	180	260	105	80	225	1.1	1.1	6	2700	5400	18.65
GE200XT-2RS	200	290	130	100	250	1.1	1.1	7	3750	7500	28.03
GE220XT-2RS	220	320	135	100	275	1.1	1.1	8	4120	8240	35.51
GE240XT-2RS	240	340	140	100	300	1.1	1.1	8	4500	9000	39.91
GE260XT-2RS	260	370	150	110	325	1.1	1.1	7	5360	10720	51.54
GE280XT-2RS	280	400	155	120	350	1.1	1.1	6	6300	12600	65.06
GE300XT-2RS	300	430	165	120	375	1.1	1.1	7	6750	13500	78.07



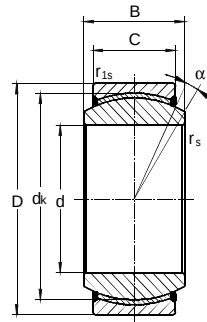
Radial Spherical Plain Bearings

Maintenance-Free type

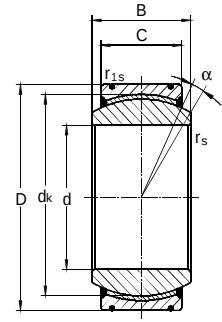
GEG...ET-2RS Series

GEG...XT-2RS Series

Sliding contact surfaces: Steel/PTFE fabric



GEG...ET-2RS



GEG...XT-2RS

KML No.	Boundary dimensions mm								Basic load ratings KN		Mass kg
	d	D	B	C	dk	rs min	r1s min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
GEG15ET-2RS	15	30	16	10	25	0.3	0.3	16	32	64	0.049
GEG17ET-2RS	17	35	20	12	29	0.3	0.3	19	45	90	0.083
GEG20ET-2RS	20	42	25	16	35.5	0.3	0.6	17	85	170	0.153
GEG25ET-2RS	25	47	28	18	40.7	0.6	0.6	17	110	220	0.203
GEG30ET-2RS	30	55	32	20	47	0.6	1	17	140	280	0.304
GEG35ET-2RS	35	62	35	22	53	0.6	1	16	175	350	0.408
GEG40ET-2RS	40	68	40	25	60	0.6	1	17	225	450	0.542
GEG45ET2RS	45	75	43	28	66	0.6	1	15	275	550	0.713
GEG50ET-2RS	50	90	56	36	80	0.6	1	17	430	860	1.14
GEG60ET-2RS	60	105	63	40	92	1	1	17	550	1100	2.05
GEG70ET-2RS	70	120	70	45	105	1	1	16	705	1410	3.01
GEG80ET-2RS	80	130	75	50	115	1	1	14	860	1720	3.64
GEG90ET-2RS	90	150	85	55	130	1	1	15	1070	2140	5.22
GEG100ET-2RS	100	160	85	55	140	1	1	14	1150	2300	6.05
GEG110ET-2RS	110	180	100	70	160	1	1	12	1680	3360	9.68
GEG120ET-2RS	120	210	115	70	180	1	1	16	1890	3780	14.01
GEG140XT-2RS	140	230	130	80	200	1	1	16	2400	4800	19.01
GEG160XT-2RS	160	260	135	80	225	1.1	1.1	16	2700	5400	24.70
GEG180XT-2RS	180	290	155	100	250	1.1	1.1	14	3750	7500	35.90
GEG200XT-2RS	200	320	165	100	275	1.1	1.1	15	4120	8240	45.28
GEG220XT-2RS	220	340	175	100	300	1.1	1.1	16	4500	9000	51.12
GEG240XT-2RS	240	370	190	110	325	1.1	1.1	15	5360	10720	65.12
GEG260XT-2RS	260	400	205	120	350	1.1	1.1	15	6300	12600	82.44
GEG280XT-2RS	280	430	210	120	375	1.1	1.1	15	6750	13500	97.21

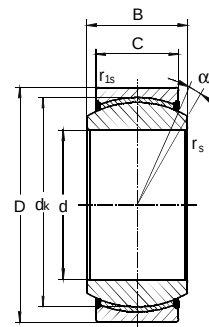
Radial Spherical Plain Bearings

Maintenance-Free type

Inch size

GEZ...ET-2RS Series

Sliding contact surfaces: Steel/PTFE fabric



GEZ...ET-2RS

KML No.	Boundary dimensions mm/Inch								Basic load ratings KN		Mass kg
	d	D	B	C	d _k	r _s min	r _{1s} min	α° ≈	Dynamic C _r	Static C _{0r}	
GEZ19ET-2RS	19.050 0.75	31.750 1.25	16.662 0.656	14.275 0.562	27.5 1.081	0.3 0.012	0.6 0.024	6	50	100	0.053
GEZ22ET-2RS	22.225 0.875	36.513 1.4375	19.431 0.756	16.662 0.656	32 1.258	0.3 0.012	0.6 0.024	6	69	138	0.085
GEZ25ET-2RS	25.400 1	41.275 1.625	22.225 0.875	19.050 0.75	36.5 1.437	0.3 0.012	0.6 0.024	6	104	208	0.121
GEZ31ET-2RS	31.750 1.25	50.800 2	27.762 1.093	23.800 0.937	45.5 1.788	0.6 0.024	0.6 0.024	6	160	320	0.23
GEZ34ET-2RS	34.925 1.375	55.563 2.1875	30.150 1.187	26.187 1.031	49 1.926	0.6 0.024	1 0.04	6	190	380	0.35
GEZ38ET-2RS	38.100 1.5	61.913 2.4375	33.325 1.312	28.575 1.125	54.7 2.154	0.6 0.024	1 0.04	6	235	470	0.42
GEZ44ET-2RS	44.450 1.75	71.438 2.8125	38.887 1.531	33.325 1.312	63.9 2.511	0.6 0.024	1 0.04	6	320	640	0.64
GEZ50ET-2RS	50.800 2	80.963 3.1875	44.450 1.75	38.100 1.5	73 2.869	0.6 0.024	1 0.04	6	415	830	0.93
GEZ57ET-2RS	57.150 2.25	90.488 3.5625	50.013 1.969	42.850 1.687	82 3.223	0.6 0.024	1 0.04	6	525	1050	1.3
GEZ63ET-2RS	63.500 2.5	100.013 3.9375	55.550 2.187	47.625 1.875	92 3.616	1 0.04	1 0.04	6	655	1310	1.85
GEZ69ET-2RS	69.850 2.75	111.125 4.375	61.112 2.406	52.375 2.062	100 3.937	1 0.04	1 0.04	6	785	1570	2.4
GEZ76ET-2RS	76.200 3	120.650 4.75	66.675 2.625	57.150 2.25	109.5 4.303	1 0.04	1 0.04	6	935	1870	3.1
GEZ82ET-2RS	82.550 3.25	130.175 5.125	72.238 2.844	61.900 2.437	119 4.685	1 0.04	1 0.04	6	1100	2200	3.8
GEZ88ET-2RS	88.900 3.5	139.700 5.5	77.775 3.062	66.675 2.625	128 5.04	1 0.04	1 0.04	6	1280	2560	4.8
GEZ95ET-2RS	95.250 3.75	149.225 5.875	83.337 3.281	71.425 2.812	137 5.393	1 0.04	1 0.04	6	1460	2920	5.8
GEZ101ET-2RS	101.600 4	158.750 6.25	88.900 3.5	76.200 3	146 5.748	1 0.04	1 0.04	6	1660	3320	7
GEZ107ET-2RS	107.950 4.25	168.275 6.625	94.463 3.719	80.950 3.187	155 6.102	1 0.04	1 0.04	6	1880	3760	8.41
GEZ114ET-2RS	114.300 4.5	177.800 7	100.013 3.937	85.725 3.375	164.5 6.476	1 0.04	1 0.04	6	2110	4220	9.8
GEZ120ET-2RS	120.650 4.75	187.325 7.375	105.562 4.156	90.475 3.562	173.5 6.83	1 0.04	1 0.04	6	2350	4700	11.5
GEZ127ET-2RS	127.000 5	196.850 7.75	111.125 4.375	95.25 3.75	183 7.204	1 0.04	1 0.04	6	2610	5220	13.5
GEZ152ET-2RS	152.400 6	222.250 8.75	120.650 4.75	104.775 4.125	207 8.15	1 0.04	1 0.04	5	3250	6500	17.5

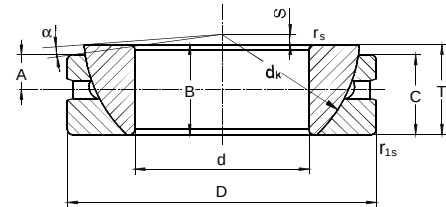


Angular Contact Spherical Plain Bearings

Requiring maintenance type

GAC...S Series

Sliding contact surfaces: Steel/Steel



GAC...S

KML No.	Boundary dimensions mm										Basic load ratings KN		Mass kg
	d	D	B	C	T	d _k	S	A	r _s , r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GAC25S	25	47	15	14	15	42	0.6	7.5	1	2.5	50	250	0.148
GAC28S	28	52	15	15	16	47	1	8	1	2	60	300	0.186
GAC30S	30	55	17	15	17	49.5	1.3	8.5	1	4.5	63	315	0.208
GAC32S	32	58	17	16	17	52	2	8.5	1	2	71	354	0.241
GAC35S	35	62	18	16	18	55.5	2.1	9	1	4	78	390	0.268
GAC40S	40	68	19	17	19	62	2.8	9.5	1	3.5	92	463	0.327
GAC45S	45	75	20	18	20	68.5	3.5	10	1	3	108	540	0.416
GAC50S	50	80	20	19	20	74	4.3	10	1	1.5	123	618	0.455
GAC55S	55	90	23	20	23	82	5	11.5	1.1	4	144	721	0.645
GAC60S	60	95	23	21	23	88.5	5.7	11.5	1.1	2.5	163	817	0.714
GAC65S	65	100	23	22	23	93.5	6.5	11.5	1.1	1	180	905	0.759
GAC70S	70	110	25	23	25	102	7.2	12.5	1.1	2	206	1030	1.04
GAC75S	75	115	25	24	25	107	7.9	12.5	1.1	1	220	1129	1.12
GAC80S	80	125	29	25.5	29	115	8.6	14.5	1.1	3.5	258	1290	1.54
GAC85S	85	130	29	26.5	29	122	9.4	14.5	1.1	2	284	1422	1.61
GAC90S	90	140	32	28	32	128.5	10.1	16	1.5	3.5	316	1580	2.09
GAC95S	95	145	32	29.5	32	135	10.8	16	1.5	2	350	1750	2.22
GAC100S	100	150	32	31	32	141	11.6	16	1.5	0.5	384	1923	2.34
GAC105S	105	160	35	32.5	35	148	12.3	17.5	2	2	423	2116	2.93
GAC110S	110	170	38	34	38	155	13	19	2	3	463	2318	3.68
GAC120S	120	180	38	37	38	168	14.5	19	2	0.5	547	2735	3.97
GAC130S	130	200	45	43	45	188	18	19	2.5	1	710	3550	5.92
GAC140S	140	210	45	43	45	198	19	19	2.5	1	740	3740	6.33
GAC150S	150	225	48	46	48	211	20	20.5	3	1	850	4270	8.01
GAC160S	160	240	51	49	51	225	20	22	3	1	970	4850	9.42
GAC170S	170	260	57	55	57	246	21	27	3	1	1190	5950	12.3
GAC180S	180	280	64	61	64	260	21	28	3	1	1395	6970	17.4
GAC190S	190	290	64	62	64	275	26	30	3	0.5	1500	7500	18.2
GAC200S	200	310	70	66	70	290	26	30	3	1.5	1680	8420	22.5

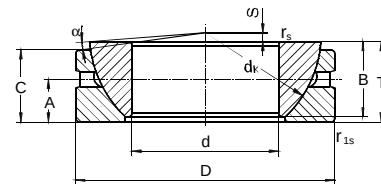
Angular Contact Spherical Plain Bearings

Requiring maintenance type

Inch size

GACZ...S Series

Sliding contact surfaces: Steel/Steel



GACZ...S

KML No.	Boundary dimensions mm/inch										Basic load ratings KN		Mass kg
	d	D	B	C	T	dk	S	A	rs, r1s min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
GACZ25S	25.4 1	41.275 1.625	13.97 0.55	11.18 0.44	15.24 0.6	36.5 1.437	2.54 0.1	5.16 0.203	2 0.08	6	29	87	0.085
GACZ31S	31.75 1.25	50.8 2	17.78 0.7	13.97 0.55	18.8 0.74	45.59 1.795	3.36 0.132	5.94 0.234	2 0.08	6	47	142	0.159
GACZ34S	34.925 1.375	55.562 2.1875	19.56 0.77	15.24 0.6	21.34 0.84	49.2 1.937	3.69 0.145	7.14 0.281	2.54 0.1	4	53	159	0.213
GACZ38S	38.1 1.5	61.912 2.4375	21.34 0.84	16.76 0.66	23.11 0.91	54.74 2.155	3.93 0.155	7.92 0.312	2.54 0.1	5.5	66	197	0.301
GACZ44S	44.45 1.75	71.438 2.8125	24.89 0.98	20.07 0.79	27.18 1.07	63.88 2.515	4.72 0.186	8.33 0.328	2.54 0.1	6	91	273	0.458
GACZ50S	50.8 2	80.962 3.1875	28.7 1.13	23.37 0.92	31.24 1.23	73.02 2.875	5.51 0.217	9.52 0.375	3.56 0.14	5.5	122	365	0.671
GACZ57S	57.15 2.25	90.488 3.5625	32.26 1.27	26.67 1.05	35.31 1.39	82.17 3.235	6.18 0.243	11.51 0.453	3.56 0.14	5.5	155	466	0.948
GACZ63S	63.5 2.5	100.013 3.9375	36.07 1.42	29.97 1.18	39.12 1.54	91.19 3.59	6.79 0.267	12.7 0.5	3.56 0.14	5	196	589	1.13
GACZ69S	69.85 2.75	111.125 4.375	39.62 1.56	32.38 1.275	43.18 1.7	100.33 3.95	7.46 0.294	13.08 0.515	4.6 0.18	5	231	694	1.75
GACZ76S	76.2 3	120.65 4.75	43.43 1.71	35.69 1.405	47.24 1.86	109.52 4.312	8.17 0.322	14.68 0.578	4.6 0.18	5	279	838	2.28
GACZ82S	82.55 3.25	130.175 5.125	47.24 1.86	39.24 1.545	51.56 2.03	118.74 4.675	9.04 0.356	16.66 0.656	4.6 0.18	5	332	995	2.89
GACZ88S	88.9 3.5	139.7 5.5	50.8 2	42.54 1.675	55.37 2.18	128.02 5.04	9.51 0.375	17.86 0.703	4.6 0.18	5	389	1167	3.57
GACZ95S	95.25 3.75	149.225 5.875	54.61 2.15	45.85 1.805	59.44 2.34	136.91 5.39	10.1 0.398	19.43 0.765	4.6 0.18	4.5	449	1348	4.35
GACZ101S	101.6 4	158.75 6.25	58.42 2.3	49.15 1.935	63.5 2.5	146.05 5.75	10.4 0.409	19.84 0.781	4.6 0.18	4.5	515	1545	5.26
GACZ114S	114.3 4.5	177.8 7	65.79 2.59	55.75 2.195	71.12 2.8	164.46 6.475	12.4 0.488	22.22 0.875	4.6 0.18	4.5	663	1990	7.76
GACZ127S	127 5	196.85 7.75	73.15 2.88	62.36 2.455	79.5 3.13	182.63 7.19	13.9 0.547	25.4 1	4.6 0.18	4.5	818	2455	11.07
GACZ152S	152.4 6	222.25 8.75	78.74 3.1	66.42 2.615	85.72 3.375	207.16 8.156	16.1 0.634	34.8 1.37	4.6 0.18	4.5	985	2955	17.37

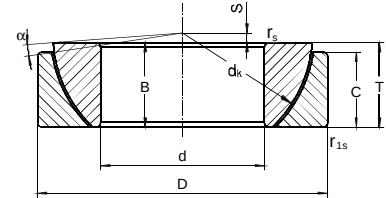


Angular Contact Spherical Plain Bearings

Maintenance-Free type

GAC...T Series

Sliding contact surfaces: steel/PTFE fabric



GAC...T

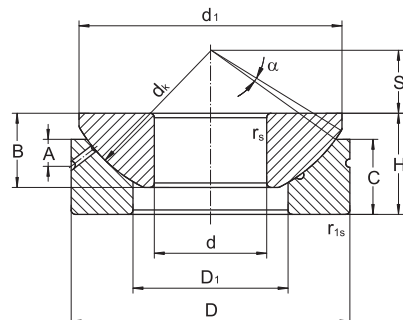
KML No.	Boundary dimensions mm									Basic load ratings KN		Mass kg
	d	D	B	C	T	d _k	S	r _s , r _{1s} min	α° ≈	Dynamic Cr	Static Cor	
GAC25T	25	47	15	14	15	42	0.6	1	2.5	89	178	0.148
GAC28T	28	52	16	15	16	47	1	1	2	100	200	0.186
GAC30T	30	55	17	15	17	49.5	1.3	1	4.5	110	220	0.208
GAC32T	32	58	17	16	17	52	2	1	2	125	250	0.241
GAC35T	35	62	18	16	18	55.5	2.1	1	4	135	270	0.268
GAC40T	40	68	19	17	19	62	2.8	1	3.5	160	320	0.327
GAC45T	45	75	20	18	20	68.5	3.5	1	3	190	380	0.416
GAC50T	50	80	20	19	20	74	4.3	1	1.5	215	430	0.455
GAC55T	55	90	23	20	23	82	5	1.1	4	250	500	0.645
GAC60T	60	95	23	21	23	88.5	5.7	1.1	2.5	285	570	0.714
GAC65T	65	100	23	22	23	93.5	6.5	1.1	1	315	630	0.759
GAC70T	70	110	25	23	25	102	7.2	1.1	2	360	720	1.04
GAC75T	75	115	25	24	25	107	7.9	1.1	1	395	790	1.12
GAC80T	80	125	29	25.5	29	115	8.6	1.1	3.5	450	900	1.54
GAC85T	85	130	29	26.5	29	122	9.4	1.1	2	495	990	1.61
GAC90T	90	140	32	28	32	128.5	10.1	1.5	3.5	550	1100	2.09
GAC95T	95	145	32	29.5	32	135	10.8	1.5	2	610	1220	2.22
GAC100T	100	150	32	31	32	141	11.6	1.5	0.5	670	1340	2.34
GAC105T	105	160	35	32.5	35	148	12.3	2	2	740	1480	2.93
GAC110T	110	170	38	34	38	155	13	2	3	810	1620	3.68
GAC120T	120	180	38	37	38	168	14.5	2	0.5	955	1910	3.97
GAC130T	130	200	45	43	45	188	18	2.5	1	1240	2480	5.92
GAC140T	140	210	45	43	45	198	19	2.5	1	1310	2620	6.33
GAC150T	150	225	48	46	48	211	20	3	1	1490	2980	8.01
GAC160T	160	240	51	49	51	225	20	3	1	1690	3380	9.42
GAC170T	170	260	57	55	57	246	21	3	1	2080	4160	12.3
GAC180T	180	280	64	61	64	260	21	3	1	2440	4880	17.4
GAC190T	190	290	64	62	64	275	26	3	0.5	2620	5240	18.2
GAC200T	200	310	70	66	70	290	26	3	1.5	2940	5880	22.5

Thrust Spherical Plain Bearings

Requiring maintenance type

GX...S Series

Sliding contact surfaces: Steel/Steel



GX...S

KML No.	Boundary dimensions mm												Basic load ratings KN		Mass kg
	d	D	B	C	H	dk	S	d ₁ max	D ₁ min	A	r _s , r _{is} min	α°/α	Dynamic Cr	Static Cor	
GX10S	10	30	7.5	7	9.5	32	7	27.5	15.5	3	0.6	5	27	136	0.036
GX12S	12	35	9.5	9.3	13	38	8	32	18	4	0.6	5	37	188	0.072
GX15S	15	42	11	10.8	15	46	10	39	22.5	5	0.6	6	53	267	0.108
GX17S	17	47	11.8	11.2	16	52	11	43.5	27	5	0.6	4	61	311	0.137
GX20S	20	55	14.5	13.8	20	60	12.5	50	31	6	1	5	84	425	0.246
GX25S	25	62	16.5	16.7	22.5	68	14	58.5	34.5	6	1	5	134	672	0.415
GX30S	30	75	19	19	26	82	17.5	70	42	8	1	5	182	909	0.614
GX35S	35	90	22	20.7	28	98	22	84	50.5	8	1	5	266	1330	0.973
GX40S	40	105	27	21.5	32	114	24.5	97	59	9	1	6	357	1810	1.59
GX45S	45	120	31	25.5	36.5	128	27.5	110	67	11	1	6	486	2470	2.24
GX50S	50	130	33	30.5	42.5	139	30	120	70	10	1	6	554	2810	3.14
GX60S	60	150	37	34	45	160	35	140	84	12.5	1	6	748	3820	4.63
GX70S	70	160	42	36.5	50	176	35	153	94.5	13.5	1	3	902	4610	5.37
GX80S	80	180	43.5	38	50	197	42.5	172	107.5	14.5	1	4	1110	5700	6.91
GX100S	100	210	51	46	59	222	45	198	127	15	1.1	4	1300	6470	10.9
GX120S	120	230	53.5	50	64	250	52.5	220	145	16.5	1.1	3	1530	7580	13.9
GX140S	140	260	61	54	72	274	52.5	243	177	23	1.5	3	1820	9040	18.1
GX160S	160	290	66	58	77	313	65	271	200	23	1.5	2	2100	10440	23.2
GX180S	180	320	74	62	86	340	67.5	299	225	26	1.5	4	2430	12070	30.9
GX200S	200	340	80	66	87	365	70	320	247	27	1.5	1	3070	15280	34.2

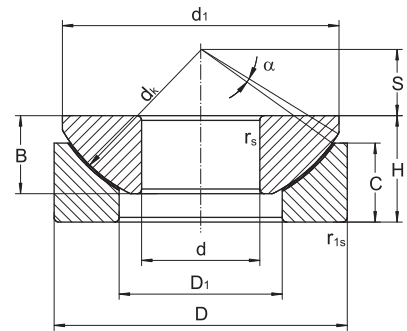


Thrust Spherical Plain Bearings

Maintenance-Free type

GX...T Series

Sliding contact surfaces: Steel/PTFE fabric



GX...T

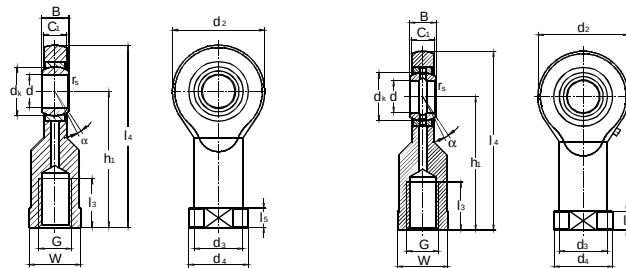
KML No.	Boundary dimensions mm											Basic load ratings KN		Mass kg
	d	D	B	C	H	dk	S	d _i max	D _i min	r _s , r _u min	cc° ~	Dynamic Cr	Static Cor	
GX10T	10	30	7.5	7	9.5	32	7	27.5	15.5	0.6	5	45	90	0.036
GX12T	12	35	9.5	9.3	13	38	8	32	18	0.6	5	65	130	0.072
GX15T	15	42	11	10.8	15	46	10	39	22.5	0.6	6	95	190	0.108
GX17T	17	47	11.8	11.2	16	52	11	43.5	27	0.6	4	110	220	0.137
GX20T	20	55	14.5	13.8	20	60	12.5	50	31	1	5	150	300	0.246
GX25T	25	62	16.5	16.7	22.5	68	14	58.5	34.5	1	5	245	490	0.415
GX30T	30	75	19	19	26	82	17.5	70	42	1	5	335	670	0.614
GX35T	35	90	22	20.7	28	98	22	84	50.5	1	5	490	980	0.973
GX40T	40	105	27	21.5	32	114	24.5	97	59	1	6	675	1350	1.59
GX45T	45	120	31	25.5	36.5	128	27.5	110	67	1	6	915	1830	2.24
GX50T	50	130	33	30.5	42.5	139	30	120	70	1	6	1040	2080	3.14
GX60T	60	150	37	34	45	160	35	140	84	1	6	1400	2800	4.63
GX70T	70	160	42	36.5	50	176	35	153	94.5	1	3	1590	3180	5.37
GX80T	80	180	43.5	38	50	197	42.5	172	107.5	1	4	1960	3920	6.91
GX100T	100	210	51	46	59	222	45	198	127	1.1	4	2270	4540	10.9
GX120T	120	230	53.5	50	64	250	52.5	220	145	1.1	3	2560	5120	13.9
GX140T	140	260	61	54	72	274	52.5	243	177	1.5	3	3050	6100	18.1
GX160T	160	290	66	58	77	313	65	271	200	1.5	2	3520	6250	23.2
GX180T	180	320	74	62	86	340	67.5	299	225	1.5	4	4070	7220	30.9
GX200T	200	340	80	66	87	365	70	320	247	1.5	1	4780	9150	34.2

Rod Ends

Requiring maintenance type

SI...E, SI...ES Series

Sliding contact surfaces: Steel/Steel
female thread



SI...E

SI...ES

KML No.	Boundary dimensions mm																Basic load ratings kN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	W	d ₃	d ₄	r _s min	α° ≈	Dynamic Cr	Static Cor		
SI5E ¹⁾	5	6	10	4.5	21	M5	30	11	40.5	5	10	10	13	0.3	13	3.4	8.1	0.021	
SI6E ¹⁾	6	6	10	4.5	21	M6	30	11	40.5	5	11	11	13	0.3	13	3.4	8.1	0.021	
SI8E ¹⁾	8	8	13	6.5	24	M8	36	15	48	5	13	13	16	0.3	15	5.5	12.9	0.039	
SI10E ¹⁾	10	9	16	7.5	29	M10	43	20	57.5	6.5	16	16	19	0.3	12	8.1	17.6	0.061	
SI12E ¹⁾	12	10	18	8.5	34	M12	50	23	67	7	18	19	22	0.3	10	10	24.5	0.096	
SI15ES ²⁾	15	12	22	10.5	40	M14	61	30	81	8	21	21	26	0.3	8	16	36	0.162	
SI17ES ²⁾	17	14	25	11.5	46	M16	67	34	90	10	27	25	29	0.3	10	21	45	0.233	
SI20ES ²⁾	20	16	29	13.5	53	M20x1.5	77	40	103.5	10	30	28	34	0.3	9	30	60	0.324	
SI25ES	25	20	35.5	18	64	M24x2	94	48	126	12	36	35	42	0.6	7	48	83	0.625	
SI30ES	30	22	40.7	20	73	M30x2	110	56	146.5	15	46	42	50	0.6	6	62	110	0.976	
SI35ES	35	25	47	22	82	M36x3	125	60	166	15	55	48	58	0.6	6	79	146	1.52	
SI40ES	40	28	53	24	92	M39x3	142	65	188	18	60	52	65	0.6	7	99	180	2.06	
SI45ES	45	32	60	28	102	M42x3	145	65	196	20	65	58	70	0.6	7	127	240	2.72	
SI50ES	50	35	66	31	112	M45x3	160	68	216	20	70	62	75	0.6	6	156	290	3.57	
SI60ES	60	44	80	39	135	M52x3	175	70	242.5	20	80	70	88	1	6	245	450	5.63	
SI70ES	70	49	92	43	160	M56x4	200	80	280	20	85	80	98	1	6	313	610	8.33	
SI80ES	80	55	105	48	180	M64x4	230	85	320	25	95	95	110	1	6	400	750	13.04	

1) Can not be relubricated.

2) Can only be relubricated through the rod end housing.

Can supply other rod ends with different pitch or accuracy of thread.

For left-hand thread, suffix "L" is added to bearings number and thread sign, e.g. SI120ES M20x1.5L-6H

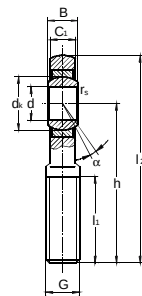


Rod Ends

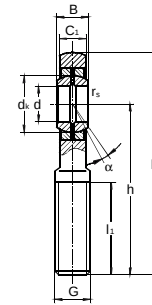
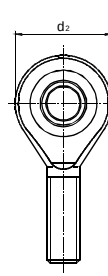
Requiring maintenance type

SA...E, SA...ES Series

Sliding contact surfaces: Steel/Steel
male thread



SA...E



SA...ES

KML No.	Boundary dimensions mm											Basic load ratings kN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	r _s min	α° ≈	Dynamic C _r	Static C _{0r}	
SA5E ¹⁾	5	6	10	4.5	21	M5	36	16	46.5	0.3	13	3.4	3.9	0.017
SA6E ¹⁾	6	6	10	4.5	21	M6	36	16	46.5	0.3	13	3.4	5.5	0.017
SA8E ¹⁾	8	8	13	6.5	24	M8	42	21	54	0.3	15	5.5	10	0.029
SA10E ¹⁾	10	9	16	7.5	29	M10	48	26	62.5	0.3	12	8.1	16	0.044
SA12E ¹⁾	12	10	18	8.5	34	M12	54	28	71	0.3	10	10	23	0.066
SA15ES ²⁾	15	12	22	10.5	40	M14	63	34	83	0.3	8	16	32	0.121
SA17ES ²⁾	17	14	25	11.5	46	M16	69	36	92	0.3	10	21	44	0.172
SA20ES ²⁾	20	16	29	13.5	53	M20x1.5	78	43	104.5	0.3	9	30	60	0.283
SA25ES	25	20	35.5	18	64	M24x2	94	53	126	0.6	7	48	83	0.504
SA30ES	30	22	40.7	20	73	M30x2	110	65	146.5	0.6	6	62	110	0.835
SA35ES	35	25	47	22	82	M36x3	140	82	181	0.6	6	79	146	1.41
SA40ES	40	28	53	24	92	M39x3	150	86	196	0.6	7	99	180	1.86
SA45ES	45	32	60	28	102	M42x3	163	92	214	0.6	7	127	240	2.57
SA50ES	50	35	66	31	112	M45x3	185	104	241	0.6	6	156	290	3.58
SA60ES	60	44	80	39	135	M52x3	210	115	277.53	1.0	6	245	450	5.73
SA70ES	70	49	92	43	160	M56x4	235	125	315	1.0	6	313	610	7.94
SA80ES	80	55	105	48	180	M64x4	270	140	360	1.0	6	400	750	12.06

1) Can not be relubricated.

2) Can only be relubricated through the rod end housing.

Can supply other rod ends with different pitch or accuracy of thread.

For left-hand thread, suffix "L" is added to bearings number and thread sign, e.g. SAL20ES M20x1.5L -6g.

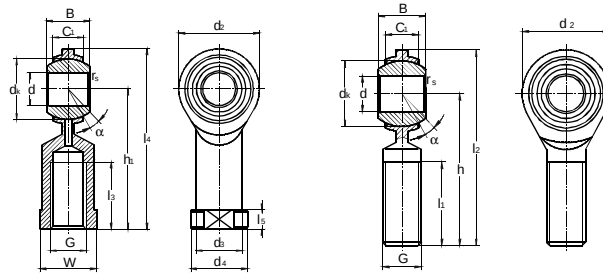
Rod Ends

Requiring maintenance type

SIZJ...S Series

SAZJ...S Series

Sliding contact surfaces: Steel/Steel



SIZJ
female thread

SAZJ
male thread

KML No.	Boundary dimensions mm/inch															Basic load ratings KN		Mass kg
	d	B	dk	C1 max	d2	G	h1	l3 min	l4	l5	W	d3	d4	rs min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
SIZJ4	4.83 0.19	7.92 0.312	11.1 0.437	5.94 0.234	15.88 0.625	10-32	26.97 1.062	12.70 0.5	34.93 1.375	4.75 0.187	7.92 0.312	7.54 0.297	10.31 0.406	0.3 0.012	10	3.6	6.8	0.018
SIZJ6	6.35 0.25	9.53 0.375	12.7 0.5	6.35 0.25	19.05 0.75	1/4-28	33.32 1.312	15.88 0.625	42.85 1.687	4.75 0.187	9.53 0.375	9.15 0.36	11.91 0.469	0.3 0.012	13.5	5.4	9.6	0.023
SIZJ7	7.94 0.3125	11.10 0.437	15.88 0.625	7.92 0.312	22.23 0.875	5/16-24	34.93 1.375	15.88 0.625	46.02 1.812	4.75 0.187	11.1 0.437	10.72 0.422	12.70 0.5	0.3 0.012	11	8.5	12	0.036
SIZJ9	9.53 0.375	12.70 0.5	18.26 0.719	9.12 0.359	25.40 1	3/8-24	41.28 1.625	19.05 0.75	53.98 2.125	6.35 0.25	14.27 0.562	13.89 0.547	17.45 0.687	0.6 0.024	11	11	16	0.059
SIZJ11	11.11 0.4375	14.27 0.562	20.62 0.812	10.31 0.406	28.58 1.125	7/16-20	46.02 1.812	22.23 0.875	60.33 2.375	6.35 0.25	15.88 0.625	15.49 0.61	19.05 0.75	0.6 0.024	10.5	14	21	0.082
SIZJ12	12.7 0.5	15.88 0.625	23.81 0.937	11.50 0.453	33.32 1.312	1/2-20	53.98 2.125	25.40 1	70.64 2.781	6.35 0.25	19.05 0.75	18.67 0.735	22.23 0.875	0.6 0.024	10	18	28	0.132
SIZJ15	15.88 0.625	19.05 0.75	28.58 1.125	12.29 0.484	38.10 1.5	5/8-18	63.50 2.5	31.75 1.25	82.55 3.25	7.92 0.312	22.23 0.875	21.84 0.86	25.40 1	0.6 0.024	13	23	29	0.195
SIZJ19	19.05 0.75	22.23 0.875	33.32 1.312	15.06 0.593	44.45 1.75	3/4-16	73.03 2.875	34.93 1.375	95.25 3.75	7.92 0.312	25.4 1	25.02 0.985	28.58 1.125	0.6 0.024	12	34	44	0.295

KML No.	Boundary dimensions mm/inch											Basic load ratings KN		Mass kg
	d	B	dk	C1 max	d2	G	h	l1 min	l2	rs min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
SAZJ4	4.83 0.19	7.92 0.312	11.1 0.437	5.94 0.234	15.88 0.625	10-32	31.75 1.25	19.05 0.75	39.70 1.563	0.3 0.012	10	3.6	3.8	0.014
SAZJ6	6.35 0.25	9.53 0.375	12.7 0.5	6.35 0.25	19.05 0.75	1/4-28	39.67 1.562	25.40 1	49.20 1.937	0.3 0.012	13.5	5.4	6.6	0.018
SAZJ7	7.94 0.3125	11.10 0.437	15.88 0.625	7.92 0.312	22.23 0.875	5/16-24	47.65 1.875	31.75 1.25	58.72 2.312	0.3 0.012	11	8.5	12	0.032
SAZJ9	9.53 0.375	12.70 0.5	18.26 0.719	9.12 0.359	25.40 1	3/8-24	49.23 1.938	31.75 1.25	61.93 2.438	0.6 0.024	11	11	16	0.050
SAZJ11	11.11 0.4375	14.27 0.562	20.62 0.812	10.31 0.406	28.58 1.125	7/16-20	53.98 2.125	34.93 1.375	68.28 2.688	0.6 0.024	10.5	14	21	0.068
SAZJ12	12.7 0.5	15.88 0.625	23.81 0.937	11.50 0.453	33.32 1.312	1/2-20	61.93 2.438	38.10 1.5	78.59 3.094	0.6 0.024	10	18	28	0.11
SAZJ15	15.88 0.625	19.05 0.75	28.58 1.125	12.29 0.484	38.10 1.5	5/8-18	66.68 2.625	41.25 1.625	85.73 3.375	0.6 0.024	13	23	29	0.16
SAZJ19	19.05 0.75	22.23 0.875	33.32 1.312	15.06 0.593	44.45 1.75	3/4-16	73.03 2.875	44.45 1.75	95.25 3.75	0.6 0.024	12	34	44	0.26

Can supply other rod ends with different accuracy of thread.

For left-hand thread, suffix "L" is added to bearings number and suffix "LH" is added to thread sign, e.g. SILZP12S 1/2-20-2BLH.

The rod and inner ring of the bearings is of stainless steel and the mark of the items has a letter "X". That is SIZP...S/X.



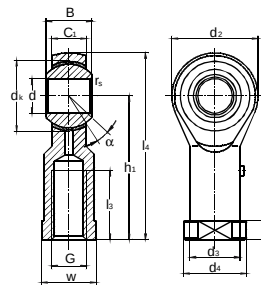
Rod Ends

Requiring maintenance type

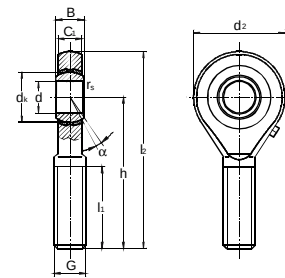
SIBP...S Series

SABP...S Series

Sliding contact surfaces: Steel/Bronze



SIBP...S
female thread



SABP...S
male thread

KML No.	Boundary dimensions mm															Basic load ratings KN		Mass kg
	d	B	dk	C1 max	d2	G 6H	h1	l3 min	l4	l5	W	d3	d4	rs min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
SIBP5S	5	8	11.112	6	16	M5	27	14	35	4	9	9	11	0.3	13	3.3	4.1	0.016
SIBP6S	6	9	12.7	6.75	18	M6	30	14	39	5	11	10	13	0.3	13	4.3	5.3	0.026
SIBP8S	8	12	15.88	9	22	M8	36	17	47	5	14	12.5	16	0.3	14	6.8	8.5	0.044
SIBP10S	10	14	19.05	10.5	26	M10	43	21	56	6.5	17	15	19	0.3	14	10	11	0.072
SIBP12S	12	16	22.23	12	30	M12	50	24	65	6.5	19	17.5	22	0.3	13	13	14	0.108
SIBP14S	14	19	25.4	13.5	34	M14	57	27	74	8	22	20	25	0.3	16	17	20	0.161
SIBP16S	16	21	28.58	15	38	M16	64	33	83	8	22	22	27	0.3	15	21	25	0.225
SIBP18S	18	23	31.75	16.5	42	M18x1.5	71	36	92	10	27	25	31	0.6	15	26	30	0.295
SIBP20S	20	25	34.93	18	46	M20x1.5	77	40	100	10	30	27.5	34	0.6	15	31	35	0.382
SIBP22S	22	28	38.1	20	50	M22x1.5	84	43	109	12	32	30	37	0.6	15	38	43	0.488
SIBP25S	25	31	42.86	22	60	M24x2	94	48	124	12	36	33.5	42	0.6	15	47	65	0.749
SIBP28S	28	35	47.63	25	66	M27x2	103	53	136	12	41	37	46	0.6	15	59	77	0.949
SIBP30S	30	37	50.8	25	70	M30x2	110	56	145	15	41	40	50	0.6	17	63	86	1.13

KML No.	Boundary dimensions mm											Basic load ratings KN		Mass kg
	d	B	d _k	C ₁ max	d ²	G 6g	h	l ₁ min	l ₂	r _s min	α° ≈	Dynamic Cr	Static Cor	
SABP5S	5	8	11.112	6	16	M5	33	20	41	0.3	13	3.3	3.9	0.016
SABP6S	6	9	12.7	6.75	18	M6	36	22	45	0.3	13	4.3	5.3	0.026
SABP8S	8	12	15.88	9	22	M8	42	25	53	0.3	14	6.8	8.5	0.044
SABP10S	10	14	19.05	10.5	26	M10	48	29	61	0.3	14	10	11	0.072
SABP12S	12	16	22.23	12	30	M12	54	33	69	0.3	13	13	14	0.108
SABP14S	14	19	25.4	13.5	34	M14	60	36	77	0.3	16	17	20	0.161
SABP16S	16	21	28.58	15	38	M16	66	40	85	0.3	15	21	25	0.225
SABP18S	18	23	31.75	16.5	42	M18x1.5	72	44	93	0.6	15	26	30	0.295
SABP20S	20	25	34.93	18	46	M20x1.5	78	47	101	0.6	15	31	35	0.382
SABP22S	22	28	38.1	20	50	M22x1.5	84	51	109	0.6	15	38	43	0.488
SABP25S	25	31	42.86	22	60	M24x2	94	57	124	0.6	15	47	65	0.749
SABP28S	28	35	47.63	25	66	M27x2	103	62	136	0.6	15	59	77	0.949
SABP30S	30	37	50.8	25	70	M30x2	110	66	145	0.6	17	63	86	1.13

Can supply other rod ends with different pitch or accuracy of thread.

For left-hand thread, suffix "L" is added to bearings number and thread sign, e.g. SILBP20S M20x1.5L-6H.

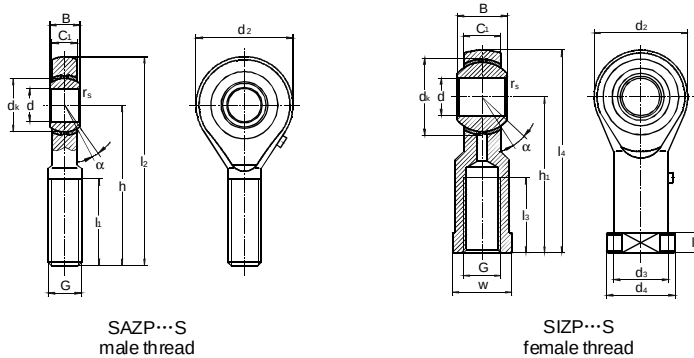
The rod and inner ring of the bearings is of stainless steel and the mark of the items has a letter "X". That is SIBP...S/X

Rod Ends

SAZP...S Series

SIZP...S Series

Sliding contact surfaces: Steel/Bronze



KML No.	Boundary dimensions mm/inch											Basic load ratings KN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G	h	l ₁ min	l ₂	r _s min	α° ≈	Dynamic Cr	Static Cor	
SAZP4S	4.83 0.19	7.92 0.312	11.1 0.437	6.35 0.25	15.88 0.625	10-32	31.75 1.25	19.05 0.75	39.70 1.563	0.3 0.012	10	3.4	3.8	0.013
SAZP6S	6.35 0.25	9.53 0.375	12.7 0.5	7.14 0.281	19.05 0.75	1/4-28	39.67 1.562	25.40 1	49.20 1.937	0.3 0.012	13	4.5	6.6	0.022
SAZP7S	7.94 0.3125	11.10 0.437	15.88 0.625	8.74 0.344	22.23 0.875	5/16-24	47.63 1.875	31.75 1.25	58.72 2.312	0.3 0.012	10	6.9	8.4	0.037
SAZP9S	9.53 0.375	12.70 0.5	18.26 0.719	10.31 0.406	25.40 1	3/8-24	49.23 1.938	31.75 1.25	61.93 2.438	0.6 0.024	9	9.4	10	0.055
SAZP11S	11.11 0.4375	14.27 0.562	20.62 0.812	11.1 0.437	28.58 1.125	7/16-20	53.98 2.125	34.93 1.375	68.28 2.688	0.6 0.024	11	11	13	0.078
SAZP12S	12.7 0.5	15.88 0.625	23.81 0.937	12.7 0.5	33.32 1.312	1/2-20	61.93 2.438	38.10 1.5	78.59 3.094	0.6 0.024	9	15	19	0.12
SAZP15S	15.88 0.625	19.05 0.75	28.58 1.125	14.27 0.562	38.10 1.5	5/8-18	66.68 2.625	41.25 1.625	85.73 3.375	0.6 0.024	11	20	21	0.18
SAZP19S	19.05 0.75	22.23 0.875	33.32 1.312	17.45 0.687	44.45 1.75	3/4-16	73.03 2.875	44.45 1.75	95.25 3.75	0.6 0.024	10	29	29	0.29
SAZP25S	25.40 1	34.93 1.375	47.63 1.875	25.40 1	69.85 2.75	5/4-12	104.78 4.125	53.98 2.125	139.70 5.5	0.6 0.024	14	60	101	1.1

KML No.	Boundary dimensions mm/inch															Basic load ratings KN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G	h ₁	l ₃ min	l ₄	l ₅	W	d ₃	d ₄	r _s min	α°≈	Dynamic Cr	Static Cor	
SIZP4S	4.83 0.19	7.92 0.312	11.1 0.437	6.35 0.25	15.88 0.625	10-32	26.97 1.062	14.27 0.562	34.93 1.375	4.75 0.187	7.92 0.312	7.54 0.297	10.31 0.406	0.3 0.012	10	3.4	4.6	0.015
SIZP6S	6.35 0.25	9.53 0.375	12.7 0.5	7.14 0.281	19.05 0.75	1/4-28	33.32 1.312	19.05 0.75	42.85 1.687	4.75 0.187	9.53 0.375	9.15 0.36	11.91 0.469	0.3 0.012	13	4.5	7.7	0.025
SIZP7S	7.94 0.3125	11.10 0.437	15.88 0.625	8.74 0.344	22.23 0.875	5/16-24	34.93 1.375	19.05 0.75	46.02 1.812	4.75 0.187	11.1 0.437	10.72 0.422	12.70 0.5	0.3 0.012	10	6.9	8.4	0.036
SIZP9S	9.53 0.375	12.70 0.5	18.26 0.719	10.31 0.406	25.40 1	3/8-24	41.28 1.625	23.80 0.937	53.98 2.125	6.35 0.25	14.27 0.562	13.89 0.547	17.45 0.687	0.6 0.024	9	9.4	10	0.061
SIZP11S	11.11 0.4375	14.27 0.562	20.62 0.812	11.1 0.437	28.58 1.125	7/16-20	46.02 1.812	26.97 1.062	60.33 2.375	6.35 0.25	15.88 0.625	15.49 0.61	19.05 0.75	0.6 0.024	11	11	13	0.081
SIZP12S	12.7 0.5	15.88 0.625	23.81 0.937	12.7 0.5	33.32 1.312	1/2-20	53.98 2.125	30.15 1.187	70.64 2.781	6.35 0.25	19.05 0.75	18.67 0.735	22.23 0.875	0.6 0.024	9	15	19	0.133
SIZP15S	15.88 0.625	19.05 0.75	28.58 1.125	14.27 0.562	38.10 1.5	5/8-18	63.50 2.5	38.10 1.5	82.55 3.25	7.92 0.312	22.23 0.875	21.84 0.86	25.40 1	0.6 0.024	11	20	21	0.190
SIZP19S	19.05 0.75	22.23 0.875	33.32 1.312	17.45 0.687	44.45 1.75	3/4-16	73.03 2.875	44.45 1.75	95.25 3.75	7.92 0.312	25.4 1	25.02 0.985	28.58 1.125	0.6 0.024	10	29	29	0.285
SIZP25S	25.40 1	34.93 1.375	47.63 1.875	25.40 1	69.85 2.75	5/4-12	104.78 4.125	53.98 2.125	139.70 5.5	11.10 0.437	38.1 1.5	37.72 1.485	44.45 1.75	0.6 0.024	14	60	101	1.00

For left-hand thread, prefix "L" is added to bearings number and suffix "LH" is added to thread sing, e.g. SALZP12S 1/2-20-2GLH



Rod Ends

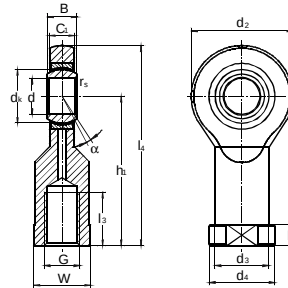
Maintenance-Free type

SIJK...C Series

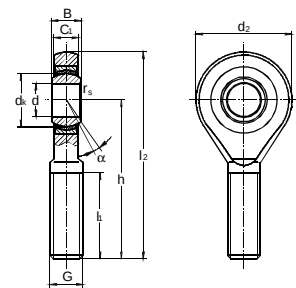
SAJK...C Series

Sliding contact surfaces:

Steel/PTFE composite material



SIJK...C
female thread



SAJK...C
male thread

KML No.	Boundary dimensions mm															Basic load ratings KN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G 6H	h ₁	l ₃	l ₄	l ₅	W	d ₃	d ₄	r _s min	α° ≈	Dynamic C _r	Static C _{0r}	
SIJK5C	5	8	11.112	7.5	18	M5	27	8	36	4	10	9	12	0.3	4	3.6	4.6	0.016
SIJK6C	6	9	12.7	7.5	20	M6	30	9	40	5	10	10	13	0.3	9	4.7	5.2	0.022
SIJK8C	8	12	15.88	9.5	24	M8	36	12	48	5	13	12.5	16	0.3	12	7.6	8.2	0.047
SIJK10C	10	14	19.05	11.5	30	M10	43	15	58	6.5	16	15	19	0.3	10	12	15	0.088
SIJK12C	12	16	22.23	12.5	34	M12	50	18	67	6.5	18	17.5	22	0.3	12	14	19	0.14
SIJK14C	14	19	25.4	14.5	38	M14	57	21	76	8	21	20	25	0.3	14	19	24	0.20
SIJK16C	16	21	28.58	15.5	42	M16	64	24	85	8	24	22	27	0.3	14	23	29	0.25
SIJK18C	18	23	31.75	17.5	46	M18x1.5	71	27	94	10	27	25	31	0.6	13	29	34	0.35
SIJK20C	20	25	34.93	18.5	50	M20x1.5	77	30	102	10	30	27.5	34	0.6	14	34	40	0.43
SIJK22C	22	28	38.1	21	56	M22x1.5	84	33	112	12	34	30	37	0.6	14	42	50	0.61
SIJK25C	25	31	42.86	23	60	M24x2	94	36	124	12	36	33.5	42	0.6	14	52	57	0.81
SIJK28C	28	35	47.63	26	66	M27x2	103	41	136	14	41	37	46	0.6	14	66	69	1.2
SIJK30C	30	37	50.8	27	70	M30x2	110	45	145	15	46	40	50	0.6	15	73	77	1.4

KML No.	Boundary dimensions mm											Basic load ratings KN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G 6h	h	l ₁ min	l ₂	r _s min	α° ≈	Dynamic Cr	Static Cor	
SAJK5C	5	8	11.112	7.5	18	M5	33	19	42	0.3	4	3.6	3.9	0.013
SAJK6C	6	9	12.7	7.5	20	M6	36	21	46	0.3	9	4.7	5.2	0.020
SAJK8C	8	12	15.88	9.5	24	M8	42	25	54	0.3	12	7.6	8.2	0.038
SAJK10C	10	14	19.05	11.5	30	M10	48	28	63	0.3	10	12	15	0.071
SAJK12C	12	16	22.23	12.5	34	M12	54	32	71	0.3	12	14	19	0.120
SAJK14C	14	19	25.4	14.5	38	M14	60	36	79	0.3	14	19	24	0.170
SAJK16C	16	21	28.58	15.5	42	M16	66	37	87	0.3	14	23	29	0.230
SAJK18C	18	23	31.75	17.5	46	M18x1.5	72	41	95	0.6	13	29	34	0.310
SAJK20C	20	25	34.93	18.5	50	M20x1.5	78	45	103	0.6	14	34	40	0.400
SAJK22C	22	28	38.1	21	56	M22x1.5	84	48	112	0.6	14	42	50	0.490
SAJK25C	25	31	42.86	23	60	M24x2	94	55	124	0.6	14	52	57	0.650
SAJK28C	28	35	47.63	26	66	M27x2	103	62	136	0.6	14	66	69	0.870
SAJK30C	30	37	50.8	27	70	M30x2	110	66	145	0.6	15	73	77	1.100

Can supply other rod ends with different pitch or accuracy of thread.

For left-hand thread, prefix "L" is added to bearings number and thread sign, e.g. SALJK20C M20x1.5L-6H.

The rod and inner ring of the bearings is of stainless steel and the mark of the items has a letter "X". That is SAJK...C/X.

Rod Ends

Maintenance-Free type

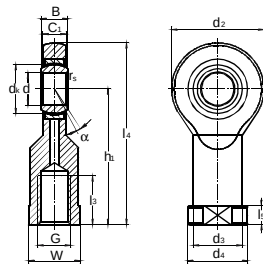
SI...C, SI...ET-2RS Series

Sliding contact surfaces:

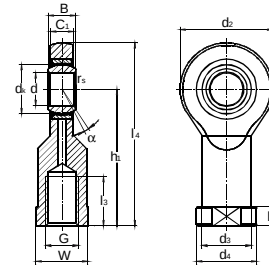
Steel/PTFE composite material ($d \leq 30$)

Steel/PTFE fabric ($d \geq 30$)

female thread



SI...C



SI...ET-2RS

KML No.	Boundary dimensions mm																Basic load ratings kN		Mass kg
	d	B	d _k	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	W	d ₃	d ₄	r _s min	α° ≈	Dynamic Cr	Static Cor		
SI5C	5	6	10	4.5	21	M5	30	11	40.5	5	10	10	13	0.3	13	3.6	8.1	0.021	
SI6C	6	6	10	4.5	21	M6	30	11	40.5	5	11	11	13	0.3	13	3.6	8.1	0.021	
SI8C	8	8	13	6.5	24	M8	36	15	48	5	13	13	16	0.3	15	5.8	12.9	0.039	
SI10C	10	9	16	7.5	29	M10	43	20	57.5	6.5	16	16	19	0.3	12	8.6	17.6	0.061	
SI12C	12	10	18	8.5	34	M12	50	23	67	7	18	19	22	0.3	10	11	24.5	0.096	
SI15C	15	12	22	10.5	40	M14	61	30	81	8	21	21	26	0.3	8	18	36	0.16	
SI17C	17	14	25	11.5	46	M16	67	34	90	10	27	25	29	0.3	10	22	45	0.23	
SI20C	20	16	29	13.5	53	M20x1.5	77	40	103.5	10	30	28	34	0.3	9	31	60	0.32	
SI25C	25	20	35.5	18	64	M24x2	94	48	126	12	36	35	42	0.6	7	51	83	0.62	
SI30C	30	22	40.7	20	73	M30x2	110	56	146.5	15	46	42	50	0.6	6	65	110	0.97	
SI35ET-2RS	35	25	47	22	82	M36x3	125	60	166	15	55	48	58	0.6	6	112	146	1.5	
SI40ET-2RS	40	28	53	24	92	M39x3	142	65	188	18	60	52	65	0.6	7	140	180	2.1	
SI45ET-2RS	45	32	60	28	102	M42x3	145	65	196	20	65	58	70	0.6	7	180	240	2.7	
SI50ET-2RS	50	35	66	31	112	M45x3	160	68	216	20	70	62	75	0.6	6	220	290	3.5	
SI60ET-2RS	60	44	80	39	135	M52x3	175	70	242.5	20	80	70	88	1	6	345	450	5.6	
SI70ET-2RS	70	49	92	43	160	M56x4	200	80	280	20	85	80	98	1	6	440	610	8.3	
SI80ET-2RS	80	55	105	48	180	M64x4	230	85	320	25	95	95	110	1	6	567	750	13	

Can supply other rod ends with different pitch or accuracy of thread.

For left-hand thread, prefix "L" is added to bearings number and thread sign, e.g. SI120C M20x1.5L-6H.



Rod Ends

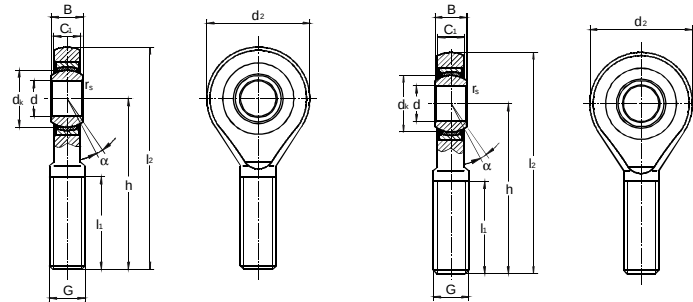
Maintenance-Free type

SA...C, SA...ET-2RS Series

Sliding contact surfaces:

Steel/PTFE composite material ($d \leq 30$)

Steel/PTFE fabric ($d \geq 30$)



SA...C

SA...ET-2RS

KML No.	Boundary dimensions mm											Basic load ratings KN		Mass kg
	d	B	dk	C1 max	d2	G 6h	h	l1 min	l2	rs min	$\alpha^\circ \approx$	Dynamic Cr	Static Cor	
SA5C	5	6	10	4.5	21	M5	36	16	46.5	0.3	13	3.6	3.9	0.017
SA6C	6	6	10	4.5	21	M6	36	16	46.5	0.3	13	3.6	5.5	0.017
SA8C	8	8	13	6.5	24	M8	42	21	54	0.3	15	5.8	10	0.029
SA10C	10	9	16	7.5	29	M10	48	26	62.5	0.3	12	8.6	16	0.044
SA12C	12	10	18	8.5	34	M12	54	28	71	0.3	10	11	23	0.066
SA15C	15	12	22	10.5	40	M14	63	34	83	0.3	8	18	32	0.120
SA17C	17	14	25	11.5	46	M16	69	36	92	0.3	10	22	44	0.170
SA20C	20	16	29	13.5	53	M20x1.5	78	43	104.5	0.3	9	31	60	0.280
SA25C	25	20	35.5	18	64	M24x2	94	53	126	0.6	7	51	83	0.510
SA30C	30	22	40.7	20	73	M30x2	110	65	146.5	0.6	6	65	110	0.840
SA35ET-2RS	35	25	47	22	82	M36x3	140	82	181	0.6	6	112	146	1.400
SA40ET-2RS	40	28	53	24	92	M39x3	150	86	196	0.6	7	140	180	1.800
SA45ET-2RS	45	32	60	28	102	M42x3	163	92	214	0.6	7	180	240	2.500
SA50ET-2RS	50	35	66	31	112	M45x3	185	104	241	0.6	6	220	290	3.600
SA60ET-2RS	60	44	80	39	135	M52x3	210	115	277.5	1.0	6	345	450	5.700
SA70ET-2RS	70	49	92	43	160	M56x4	235	125	315	1.0	6	440	610	7.900
SA80ET-2RS	80	55	105	48	180	M64x4	270	140	360	1.0	6	567	750	12.00

Can supply other rod ends with different pitch or accuracy of thread.

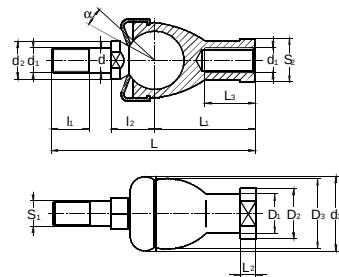
For left-hand thread, suffix "L" is added to bearings number and thread sign, e.g. SAL20C M20x1.5L-6H.

Ball Joint Rod End

Straight type

SQZ····-RS Series

Sliding Contact Surfaces: Steel/Zinc base alloy



SQZ····-RS

KML No.	Boundary dimensions mm																Static load ratings KN	Mass kg
	d	d ₁	d ₂	d ₃	l ₁	l ₂	S ₁	L	L ₁	L ₂	L ₃	D ₁	D ₂	D ₃	S ₂	α° ≈		
SQZ5-RS	5	M5x0.8	9	19	8	11	7	46	24	4	12	9	11	17	9	15	2.8	0.025
SQZ6-RS	6	M6x1	10	20	11	12.2	8	55.2	28	5	15	10	13	20	11	15	3.7	0.041
SQZ8-RS	8	M8x1.25	12	24	12	16	10	65	32	5	16	12.5	16	24	14	15	5.8	0.075
SQZ10-RS	10	M10x1.25	14	30	15	19.5	11	74.5	35	6.5	18	15	19	28	17	15	8.4	0.12
SQZ12-RS	12	M12x1.25	17	32	17	21	15	84	40	6.5	20	17.5	22	32	19	15	11	0.18
SQZ14-RS	14	M14x1.5	19	38	22	23.5	17	103	45	8	25	20	25	36	22	11	15	0.27
SQZ16-RS	16	M16x1.5	22	44	23	25.5	19	112	50	8	27	22	27	40	22	11	15	0.36
SQZ18-RS	18	M18x1.5	23	45	25	31	20	130.5	58	10	32	25	31	45	27	11	19	0.54
SQZ20-RS	20	M20x1.5	27	50	25	29	24	133	63	10	38	27.5	34	45	30	7.5	19	0.57
SQZ22-RS	22	M22x1.5	27	52	26	33	24	145	70	12	43	30	37	50	32	7.5	23	0.76

The shank of ball joint housing may be left-hand thread, for left-hand thread, prefix "L" is added to bearing number and thread sign, e.g. SQZL5-RS M5L-6H.

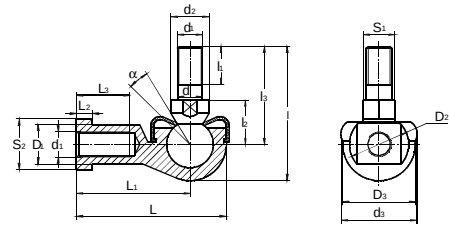


Ball Joint Rod Ends

L-Ball Series

SQ...-RS Series

Sliding contact surfaces: Steel/Zinc base alloy



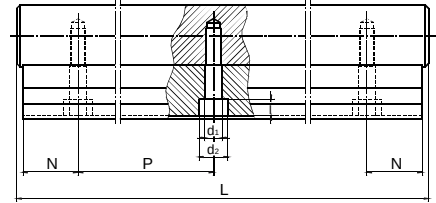
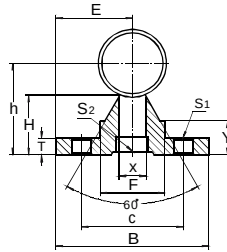
SQ...-RS

KML No.	Boundary dimensions mm																		Static load ratings KN	Mass kg
	d	d ₁	d ₂	d ₃	l	l ₁	l ₂	l ₃	S ₁	L	L ₁	L ₂	L ₃	D ₁	D ₂	D ₃	S ₂	α° ≈		
SQ5-RS	5	M5x0.8	9	19	29	8	10	21	7	35	27	4	14	9	11	16	9	25	2.2	0.026
SQ6-RS	6	M6x1	10	20	35.5	11	11	26	8	40	30	5	14	10	13	19	11	25	3.5	0.039
SQ8-RS	8	M8x1.25	12	24	42.5	12	14	31	10	48	36	5	17	12.5	16	23	14	25	6.6	0.068
SQ10-RS	10	M10x1.25	14	30	50.5	15	17	37	11	57	43	6.5	21	15	19	27	17	25	10	0.112
SQ12-RS	12	M12x1.25	17	32	57.5	17	19	42	15	66	50	6.5	25	17.5	22	31	19	25	16	0.164
SQ14-RS	14	M14x1.5	19	38	73.5	22	21.5	56	17	75	57	8	26	20	25	35	22	25	19	0.254
SQ16-RS	16	M16x1.5	22	44	79.5	23	23.5	60	19	84	64	8	32	22	27	39	22	20	26	0.336
SQ18-RS	18	M18x1.5	23	45	90	25	26.5	68	20	93	71	10	34	25	31	44	27	20	33	0.464
SQ20-RS	20	M20x1.5	27	50	90	25	27	68	24	99	77	10	35	27.5	34	44	30	20	45	0.538
SQ22-RS	22	M22x1.5	27	52	95	26	28	70	24	109	84	12	41	30	37	50	32	16	48	0.713

The shank of ball joint housing may be left-hand thread, for left-hand thread, prefix "L" is added to bearing number and thread sign, e.g. SQL5-RS M5L-6H



Linear Motion Ball Slide Units Support SBR Series



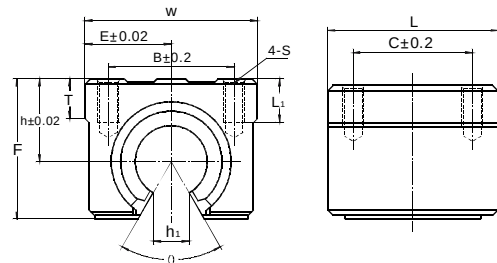
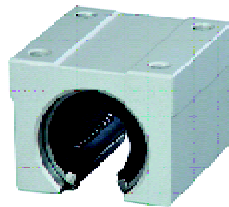
KML No.	Shaft dimensions d	Boundary dimensions mm											Mass Kg/m
		E	h	B	H	T	F	X	Y	C	S1	S2 d1xd2x1	
SBR16	φ16	20	25	40	17.8	5	18.5	8	11.7	30	φ5.5	5.5x9.5x5.4	1.00
SBR20	φ20	22.5	27	45	17.7	5	19	8	10	30	φ5.5	5.5x9.5x5.4	1.07
SBR25	φ25	27.5	33	55	21	6	21.5	8	12	35	φ6.6	6.6x11x6.5	1.50
SBR30	φ30	30	37	60	22.8	7	26.5	10.3	13	40	φ6.6	6.6x11x6.5	1.90
SBR35	φ35	32.5	43	65	26.5	8	28	13	15.5	45	φ9	9x14x8.6	2.45
SBR40	φ40	37.5	48	75	29.5	9	38	15.5	17	55	φ9	9x14x8.6	3.25
SBR50	φ50	47.5	62	95	38.8	11	45	20	21	70	φ11	11x17.5x10.8	5.26

Support Rail Stand Lengths and Dimensions

KML No.	SBR16	SBR20	SBR25	SBR30	SBR35	SBR40	SBR50
Standard Length L	190	340	250	450	460	460	470
	340	640	450	850	660	660	670
	640	940	850	1250	860	860	870
	940	1240	1250	1450	1060	1060	1070
						1260	1270
N	20	20	25	25	30	30	35
P	150	150	200	200	200	200	200
Max.Length	1390	1390	1850	1850	1860	1860	2070

Linear Motion Ball Slide Units Series

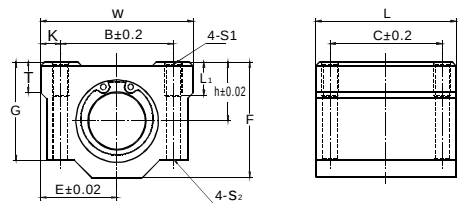
SBR...UU, Series



KML No.	Shaft dia. d	Boundary dimensions mm												Linear bearings			Mass Kg/m
		h	E	W	L	F	h_1	θ	B	C	S	L_1	T	KML No.	Dynamic Cr	Static Cor	
SBR10UU	10	15	18	36	32	24	6	80°	25	20	M5	10	7	LM10UU-OP	372	549	65
SBR13UU	13	17	20	40	39	27.6	8.5	80°	28	28	M5	10	8	LM13UU-OP	510	784	100
SBR16UU	16	20	22.5	45	45	33	10	80°	32	30	M5	12	9	LM16UU-OP	774	1180	150
SBR20UU	20	23	24	48	50	39	10	60°	35	35	M6	12	11	LM20UU-OP	882	1370	200
SBR25UU	25	27	30	60	65	47	11.5	50°	40	40	M6	12	14	LM25UU-OP	980	1570	450
SBR30UU	30	33	35	70	70	56	14	50°	50	50	M8	18	15	LM30UU-OP	1570	2740	630
SBR35UU	35	37	40	80	80	63	16	50°	55	55	M8	18	18	LM35UU-OP	1670	3140	925
SBR40UU	40	42	45	90	90	72	19	50°	65	65	M10	20	20	LM40UU-OP	2160	4020	1330
SBR50UU	50	53	60	120	110	92	23	50°	94	80	M10	20	25	LM50UU-OP	3820	7940	3000

Linear Motion Ball Slide Units Series

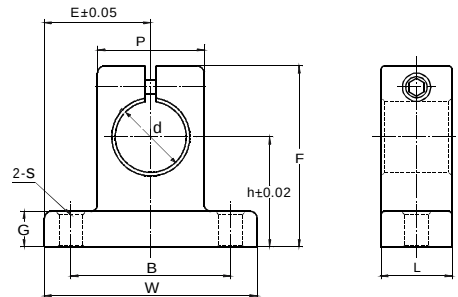
SCS...UU Series



KML No.	Boundary dimensions mm													Linear bearings			Mass Kg/m
	T	h	E	W	L	F	G	B	C	K	S1	S2	L_1	KML No.	Dynamic Cr	Static Cor	
SCS6UU	6	9	15	30	25	18	15	20	15	5	M4	3.4	8	LM6UU	206	265	34
SCS8UU	6	11	17	34	30	22	18	24	18	5	M4	3.4	8	LM8UU	274	392	52
SCS10UU	8	13	20	40	35	26	21	28	21	6	M5	4.3	12	LM10UU	372	549	92
SCS12UU	8	15	21	42	36	28	24	30.5	26	5.75	M5	4.3	12	LM12UU	510	784	102
SCS13UU	8	15	22	44	39	30	24.5	33	26	5.5	M5	4.3	12	LM13UU	510	784	120
SCS16UU	9	19	25	50	44	38.5	32.5	36	34	7	M5	4.3	12	LM16UU	774	1180	200
SCS20UU	11	21	27	54	50	41	35	40	40	7	M6	5.2	12	LM20UU	882	1370	255
SCS25UU	12	26	38	76	67	51.5	42	54	50	11	M8	7	18	LM25UU	980	1570	600
SCS30UU	15	30	39	78	72	59.5	49	58	58	10	M8	7	18	LM30UU	1570	2740	735
SCS35UU	18	34	45	90	80	68	54	70	60	10	M8	7	18	LM35UU	1670	3140	1100
SCS40UU	20	40	51	102	90	78	62	80	60	11	M10	8.7	25	LM40UU	2160	4020	1590
SCS50UU	25	52	61	122	110	102	80	100	80	11	M10	8.7	25	LM50UU	3820	7940	3340
SCS60UU	30	58	66	132	122	114	94	108	90	12	M10	10.7	25	LM60UU	4700	10000	4270

Linear Motion Ball Slide Units Series

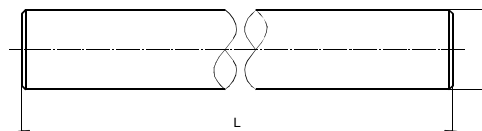
SH...A Series



KML No.	Shaft dimensions d	Boundary dimensions mm									Locking bolt	Clamping bolt	Mass Kg/m
		h	E	W	L	F	G	P	B	S			
SH8A	8	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SH10A	10	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SH12A	12	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SH13A	13	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SH16A	16	27	24	48	16	44	8	25	38	5.5	M4	M5	40
SH20A	20	31	30	60	20	51	10	30	45	6.6	M5	M6	70
SH25A	25	35	35	70	24	60	12	38	56	6.6	M6	M6	130
SH30A	30	42	42	84	28	70	12	44	64	9	M6	M8	180
SH35A	35	50	49	98	32	82	15	50	74	11	M8	M10	270
SH40A	40	60	57	114	36	96	15	60	90	11	M8	M10	420
SH50A	50	70	63	126	40	120	18	74	100	14	M12	M12	750

Cylinder Linear Rail

WC Standards Series WCS Chromeplate Series



Cylinder linear rail tolerances

Shaft diameter		h6		g6	
Over	To	high	low	high	low
6	10	0	-9	-5	-14
10	18	0	-11	-6	-17
18	30	0	-13	-7	-20

KML No.		D mm	L mm																		Depth of hardening Layer	Mass Kg/m	
WC (WCAS)	WCS		200	300	400	500	600	700	800	900	1000	1200	1500	1800	2000	2500	3000	3500	4000	5000			6000
WC8	WCS8	8		●	●	●	●	●	●	●	●	●	●									≥1.0	0.40
WC10	WCS10	10		●	●	●	●	●	●	●	●	●	●	●									0.62
WC12	WCS12	12		●	●	●	●	●	●	●	●	●	●	●	●								0.89
WC13	WCS13	13		●	●	●	●	●	●	●	●	●	●	●	●	●							1.04
WC16	WCS16	16			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	≥1.5	1.58
WC20	WCS20	20			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		2.47
WC25	WCS25	25			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		3.85
WC30	WCS30	30			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	≥2.0	5.55
WC35	WCS35	35			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		7.55
WC40	WCS40	40				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		≥2.5	9.87
WC50	WCS50	50					●	●	●	●	●	●	●	●	●	●	●	●	●				15.4

stainless steel shaft WCAS series is available

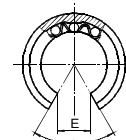
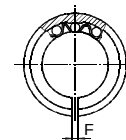
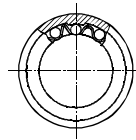
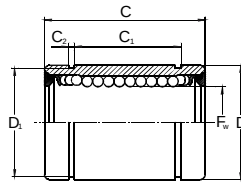
Linear Bearing

Metric Size

LME...UU, LME...UU-AJ, LME...UU-OP Series

Inch Size

LMB...UU, LMB...UU-AJ, LMB...UU-OP Series



LME...UU
LMB...UU

LME...UU-AJ
LMB...UU-AJ

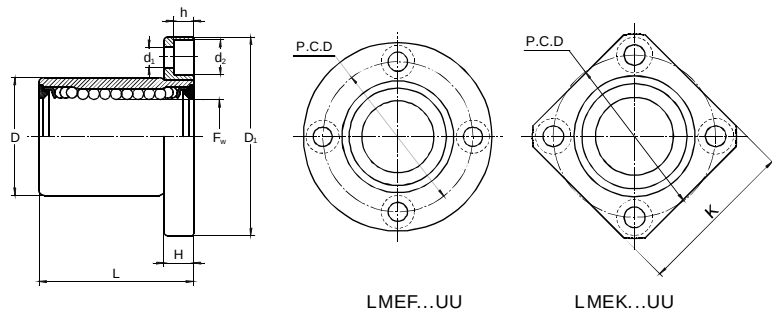
LME...UU-OP
LMB...UU-OP

KML No.			Boundary dimensions and tolerance										Basic load ratings N		Ball	Mass
LME...UU	LME...UU-AJ	LME...UU-OP	Fw mm	FWTolerance(μm) Precision P	D mm	C mm	C1 mm	C2 mm	D1 mm	F mm	E mm	°	Dynamic Cr	Static Cor	Circuits	g
LME4UU	-	-	4	+8 0	8	12	-	-	-	-	-	-	88	127	4	1.9
LME5UU	LME5UU-AJ	-	5		12	22	14.5	1.1	11.5	1	-	-	206	265	4	11
LME8UU	LME8UU-AJ	-	8		16	25	16.5	1.1	15.2	1	-	-	265	402	4	20
LME10UU	LME10UU-AJ	LME10UU-OP	10		19	29	22	1.3	18	1	6.8	80°	372	549	4	29.5
LME12UU	LME12UU-AJ	LME12UU-OP	12	+9 -1	22	32	22.9	1.3	21	1.5	7.5	78°	510	784	4	41
LME16UU	LME16UU-AJ	LME16UU-OP	16		26	36	24.9	1.3	24.9	1.5	10	78°	578	892	5	57
LME20UU	LME20UU-AJ	LME20UU-OP	20		32	45	31.5	1.6	30.3	2	10	60°	862	1370	5	91
LME25UU	LME25UU-AJ	LME25UU-OP	25		40	58	44.1	1.85	37.5	2	12.5	60°	980	1570	6	215
LME30UU	LME30UU-AJ	LME30UU-OP	30	+11 -1	47	68	52.1	1.85	44.5	2	12.5	50°	1570	2740	6	325
LME40UU	LME40UU-AJ	LME40UU-OP	40	+13 -2	62	80	60.6	2.15	59	3	16.8	50°	2160	4020	6	705
LME50UU	LME50UU-AJ	LME50UU-OP	50		75	100	77.6	2.65	72	3	21	50°	3820	7940	6	1130
LME60UU	LME60UU-AJ	LME60UU-OP	60		90	125	101.7	3.15	86.5	3	27.2	54°	4700	9800	6	2050

KML No.			Boundary dimensions and tolerance											Basic load ratings N		Ball Circuits	Mass g
LMB...UU	LMB...UU-AJ	LMB...UU-OP	Fw mm	F W Tolerance (μm) Precision J Precision P	D mm	C mm	C1 mm	C2 mm	D1 mm	F mm	E mm	°	Dynamic Cr	Static Cor			
LMB3UU	-	-	$\frac{3}{16}$ " 4.76	0 -6	0 -9	$\frac{3}{8}$ " 9.53	$\frac{9}{16}$ " 14.29	10.94	0.71	8.91	-	-	-	14	17	4	-
LMB4UU	-	-	$\frac{1}{4}$ " 6.35			$\frac{1}{2}$ " 12.70	$\frac{3}{4}$ " 19.05	12.95	0.99	11.91	-	-	-	21	27	4	10
LMB6UU	-	-	$\frac{3}{8}$ " 9.53			$\frac{5}{8}$ " 15.88	$\frac{7}{8}$ " 22.23	16.15	0.99	14.94	-	-	-	23	32	4	15
LMB8UU	LMB8UU-AJ	LMB8UU-OP	$\frac{1}{2}$ " 12.70			$\frac{7}{8}$ " 22.23	1 $\frac{1}{4}$ " 31.75	24.46	1.17	20.85	1.5	9	-	52	79	4	42
LMB10UU	LMB10UU-AJ	LMB10UU-OP	$\frac{5}{8}$ " 15.88	0 -6	0 -10	1 $\frac{1}{8}$ " 28.58	1 $\frac{1}{2}$ " 38.10	28.04	1.42	26.90	1.5	11	80°	70	100	5	-
LMB12UU	LMB12UU-AJ	LMB12UU-OP	$\frac{3}{4}$ " 19.05			1 $\frac{1}{4}$ " 31.75	1 $\frac{5}{8}$ " 41.28	29.61	1.42	29.88	1.6	11	80°	88	140	5	101
LMB16UU	LMB16UU-AJ	LMB16UU-OP	1" 25.40			1 $\frac{9}{16}$ " 39.69	2 $\frac{1}{4}$ " 57.15	44.57	1.73	37.31	1.5	12	60°	100	160	5	220
LMB20UU	LMB20UU-AJ	LMB20UU-OP	1 $\frac{1}{4}$ " 31.75			2" 50.80	2 $\frac{5}{8}$ " 66.68	50.92	1.73	47.90	2.5	15	50°	160	280	6	465
LMB24UU	LMB24UU-AJ	LMB24UU-OP	1 $\frac{1}{2}$ " 38.10	0 -8	0 -12	2 $\frac{3}{8}$ " 60.33	3" 76.20	61.26	2.18	56.87	3	18	50°	220	410	6	720
LMB32UU	LMB32UU-AJ	LMB32UU-OP	2" 50.80			3" 76.20	4" 101.60	81.07	2.62	72.07	3	25	50°	390	870	6	1310
LMB40UU	LMB40UU-AJ	LMB40UU-OP	2 $\frac{1}{2}$ " 63.50			3 $\frac{3}{4}$ " 95.26	5" 127.00	100.99	3.05	90.22	3	30	50°	480	1020	6	2600
LMB48UU	LMB48UU-AJ	LMB48UU-OP	3" 76.20			4 $\frac{1}{2}$ " 114.30	6" 152.40	120	3.05	109.47	3	40	50°	150	1630	6	4306
LMB64UU	LMB64UU-AJ	LMB64UU-OP	4" 101.60	0 -10	0 -20	6" 152.40	8" 203.20	159	3.53	145.92	3	50	50°	1440	3550	6	10200

Flange Linear Bearing

LMEF...UU, LMEK...UU Series



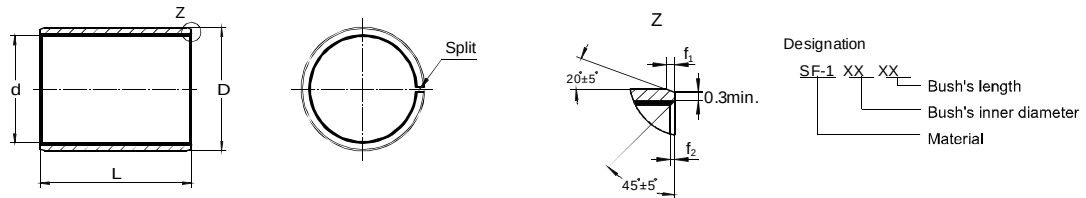
KML No.	Boundary dimensions mm							Basic load ratings N		Ball circuits	Mass g
	Fw	D	L	D1	H	P.C.D	d1xd2xh	Co	Cor		
LMEF8UU	8	16	25	32	5	24	3.4x6.5x3.3	27	41	4	44
LMEF12UU	12	22	32	42	6	32	4.5x8x4.4	52	79	4	86
LMEF16UU	16	26	36	46	6	36	4.5x8x4.4	59	91	5	120
LMEF20UU	20	32	45	54	8	43	5.5x9.5x5.4	88	140	5	184
LMEF25UU	25	40	58	62	8	51	5.5x9.5x5.4	100	160	6	335
LMEF30UU	30	47	68	76	10	62	6.6x11x6.5	160	280	6	545
LMEF40UU	40	62	80	98	13	80	9x14x8.6	220	410	6	1185
LMEF50UU	50	75	100	112	13	94	9x14x8.6	390	810	6	1730
LMEF60UU	60	90	125	134	18	112	11x17.5x10.8	480	1020	6	3180

KML No.	Boundary dimensions mm								Basic load Ratings N		Ball circuits	Mass g
	Fw	D	L	D1	H	K	P.C.D	d1xd2xh	Co	Cor		
LMEK8UU	8	16	25	32	5	25	24	3.4x6.5x3.3	27	41	4	33
LMEK12UU	12	22	32	42	6	32	32	4.5x8x4.4	52	79	4	66
LMEK16UU	16	26	36	46	6	35	36	4.5x8x4.4	59	91	5	90
LMEK20UU	20	32	45	54	8	42	43	5.5x9.5x5.4	88	140	5	149
LMEK25UU	25	40	58	62	8	50	51	5.5x9.5x5.4	100	160	6	295
LMEK30UU	30	47	68	76	10	60	62	6.6x11x6.5	160	280	6	460
LMEK40UU	40	62	80	98	13	75	80	9x14x8.6	220	410	6	995
LMEK50UU	50	75	100	112	13	88	94	9x14x8.6	390	810	6	1550
LMEK60UU	60	90	125	134	18	106	112	11x17.5x10.8	480	1020	6	2740

SF-1 Dry Bushes

Self-lubricating bearing

SF-1 triple-layer composite material consists of 3 bonded layers: steel backing strip, sintered porous tin bronze interlayer, and PTFE material overlay. It has a copper-plated steel base, on which a 0.2-0.3mm porous tin bronze layer is sintered. The pores of this layer are filled during one rolling process with PTFE mixed with lead. A 0.01-0.03mm top layer made of the same material forms the running-in layer.



Unit:mm

d	D	Wall thickness		f ₁	f ₂	L ⁰ _{-0.40} (_{d ≤ Φ30} L _{-0.30} _{d ≥ Φ30} L _{-0.40})															
		min	max			6	8	10	12	15	20	25	30	40	50	60	70	80	100	115	
6	8	0.980	1.005	0.6	0.3	●	●	●													
8	10					●	●	●	●	●											
10	12					●	●	●	●	●	●										
12	14					●	●	●	●	●	●	●									
13	15							●	●	●	●	●	●								
14	16								●	●	●	●	●	●							
15	17								●	●	●	●	●	●							
16	18									●	●	●	●	●							
17	19									●	●										
18	20						●	●	●	●											
20	23	1.475	1.505	0.6	0.4			●	●	●	●	●									
22	25							●	●	●	●	●	●								
24	27								●	●	●	●	●								
25	28								●	●	●	●	●	●	●						
28	32	1.970	2.005	1.2	0.4				●	●	●	●	●	●							
30	34							●	●	●	●	●	●	●							
32	36									●		●	●	●							
35	39								●	●	●	●	●	●	●						
38	42									●		●	●	●	●						
40	44								●		●	●	●	●	●	●					
45	50	2.460	2.505	1.8	0.6					●	●	●	●	●							
50	55									●		●	●	●	●	●					
55	60												●	●	●	●	●				
60	65													●	●	●	●	●			
65	70														●	●	●	●	●		
70	75															●	●	●	●	●	
75	80															●	●	●	●	●	



KML Motion Industries CO., Ltd.

Address: Rooms 2605-7, Saxon Tower, Cheung Shun
Street, Lai Chi Kok, Kowloon, Hong Kong
Tel: 852-2425-1661
Fax: 852-2480-5866

KML Motion Industries (ShangHai) Holding CO., Ltd.

Address: Room H, Floor 20, XinDongya Hotel, 238
Nandan Road East, Shanghai, China
Tel: 86-21-6468-6262
Fax: 86-21-6427-6197

KML Bearing (Xinchang) Company Ltd.

Address: No. 5 Xia'an Road, Yulin subdistrict, Xinchang
County, Zhejiang, China
Tel: 86-575-8609-0285

KML Canada

Address: 5586 Ambler Dr., Mississauga, Ontario,
L4W 2K9, Canada
Tel: 1-800-565-0044
Fax: 1-905-629-2358

KML USA.

Address: 213 Jones Blvd., P.O. Box 1136,
Pottstown, PA 19464, USA
Tel: 610-495-6134, 877-495-6134 (toll free)
Fax: 610-495-6183

E-mail: info@kml-bearing.com [Http://www.kml-bearing.com](http://www.kml-bearing.com)