



向心关节轴承公差

Tolerances for radial spherical plain bearings

向心关节轴承公差(除 GEBK...S, GEBJ...S, GEBJ...C, GEFZ...S, GEFZ...C, GEK...XS-2RS 外)

Tolerances for radial spherical plain bearings(except for series GEBK...S, GEBJ...S, GEBJ...C, GEFZ...S, GEFZ...C, GEK...XS-2RS)

内圈 Inner ring

μm

d mm		Δ dmp		Δ dmp*		Vdp	Vdmp	Vdp*	Vdmp*	Δ Bs		Δ Bs*	
超过 over	到 incl.	max	min	max	min	max	max	max	max	max	min	max	min
—	18	0	-8	+18	0	8	6	18	14	0	-120	0	-180
18	30	0	-10	+21	0	10	8	21	16	0	-120	0	-210
30	50	0	-12	+25	0	12	9	25	19	0	-120	0	-250
50	80	0	-15	+30	0	15	11	30	22	0	-150	0	-300
80	120	0	-20	+35	0	20	15	35	26	0	-200	0	-350
120	180	0	-25	+40	0	25	19	40	30	0	-250	0	-400
180	250	0	-30	+46	0	30	23	46	35	0	-300	0	-460
250	315	0	-35	+52	0	35	26	52	39	0	-350	0	-520
315	400	0	-40	+57	0	40	30	57	43	0	-400	0	-570
400	500	0	-45	—	—	45	34	—	—	0	-450	—	—
500	630	0	-50	—	—	50	38	—	—	0	-500	—	—

带*号为 GEEW...ES 的公差 The deviations in the columns with symbol * apply to spherical plain bearings of series GEEW...ES.

外圈 Outer ring

D mm		Δ Dmp μm		VDP μm	Vdmp μm	Δ Cs μm	
超过 over	到 incl.	max	min	max	max	max	min
—	18	0	-8	10	6	0	-240
18	30	0	-9	12	7	0	-240
30	50	0	-11	15	8	0	-240
50	80	0	-13	17	10	0	-300
80	120	0	-15	20	11	0	-400
120	150	0	-18	24	14	0	-500
150	180	0	-25	33	19	0	-500
180	250	0	-30	40	23	0	-600
250	315	0	-35	47	26	0	-700
315	400	0	-40	53	30	0	-800
400	500	0	-45	60	34	0	-900
500	630	0	-50	67	38	0	-1000
630	800	0	-75	100	56	0	-1100
800	1000	0	-100	135	75	0	-1200

GEBK...S 公差 Tolerances for series GEBK...S

内圈 Inner ring

d mm		Δ dmp μm		Δ Bs μm	
超过 over	到 incl.	max	min	max	min
—	6	+12	0	0	-100
6	10	+15	0	0	-100
10	18	+18	0	0	-100
18	30	+21	0	0	-100

外圈 Outer ring

D mm		Δ Dmp μm		Δ Cs μm	
超过 over	到 incl.	max	min	max	min
10	18	0	-11	+100	-100
18	30	0	-13	+100	-100
30	50	0	-16	+100	-100
50	80	0	-19	+100	-100



GEBJ...S, GEBJ...C 公差 Tolerances for series GEBJ...S, GEBJ...C

内圈 Inner ring

d mm		Δdmp μm		ΔBs μm	
超过 over	到 incl.	max	min	max	min
—	6	+12	0	0	-100
6	10	+15	0	0	-100
10	18	+18	0	0	-100
18	30	+21	0	0	-100

外圈 Outer ring

D mm		ΔDmp μm		ΔCs μm	
超过 over	到 incl.	max	min	max	min
10	18	0	-11	0	-240
18	30	0	-13	0	-240
30	50	0	-16	0	-240
50	80	0	-19	0	-300

GEFZ...S, GEFZ...C 公差 Tolerances for series GEFZ...S, GEFZ...C

内圈 Inner ring

d mm		Δdmp μm		ΔBs μm	
超过 over	到 incl.	max	min	max	min
—	6	+38	-13	+130	-130
6	10	+38	-13	+130	-130
10	18	+38	-13	+130	-130
18	30	+38	-13	+130	-130

外圈 Outer ring

D mm		ΔDmp μm		ΔCs μm	
超过 over	到 incl.	max	min	max	min
10	18	0	-18	+130	-130
18	30	0	-18	+130	-130
30	50	0	-18	+130	-130

GEK...XS-2RS 公差 Tolerances for series GEK...XS-2RS

内圈 Inner ring

d mm		Δdmp μm		ΔBs μm	
超过 over	到 incl.	max	min	max	min
18	30	+33	0	+50	-110
30	50	+39	0	+50	-110
50	60	+46	0	+50	-140

外圈 Outer ring

D mm		ΔDmp μm		ΔCs μm	
超过 over	到 incl.	max	min	max	min
50	80	+30	+11	0	-130
80	120	+35	+13	0	-130
120	150	+40	+15	0	-130

尺寸和公差符号 The symbols of dimension and tolerance

- d: 轴承公称内径。Bearing bore diameter, nominal.
- Δdmp : 单一平面平均内径偏差。Single plane mean bore diameter deviation.
- Vdp: 单一径向平面内径变动量。Bore diameter variation in a single radial plane.
- Vdmp: 平均内径变动量。Mean bore diameter variation.
- ΔBs : 内圈单一宽度偏差。Deviation of a single width of the inner ring.
- B: 内圈公称宽度。Width of inner ring, nominal.
- D: 轴承公称外径。Bearing outside diameter, nominal.
- ΔDmp : 单一平面平均外径偏差。Single plane mean outside diameter deviation.
- VDp: 单一径向平面外径变动量。Outside diameter variation in a single radial plane.
- VDmp: 平均外径变动量。Mean outside diameter variation.
- ΔCs : 外圈单一宽度偏差。Deviation of a single width of the outer ring.
- C: 外圈公称宽度。Width of outer ring, nominal.
- ΔTs : 角接触关节轴承实际宽度偏差。Actual deviation of width of the angular contact spherical plain bearing.
- ΔHs : 推力关节轴承实际高度偏差。Actual deviation of height of the spherical plain thrust bearing.
- $\Delta hs, \Delta h1s$: 杆端关节轴承或球头杆端关节轴承中心高偏差。Center height deviation of rod ends or ball joint rod ends.



向心关节轴承径向游隙

Radial internal clearance of radial spherical plain bearings

钢对钢向心关节轴承径向游隙 Radial internal clearance of steel-on-steel radial spherical plain bearings

GE...E, GE...ES, GE...ES-2RS, GEEW...ES, GEEM...ES-2RS 系列

Series GE...E, GE...ES, GE...ES-2RS, GEEW...ES, GEEM...ES-2RS

d mm		C2组 Group C2 μm		基本组 Group normal μm		C3组 Group C3 μm	
超过 over	到 incl.	min	max	min	max	min	max
—	12	8	32	32	68	68	104
12	20	10	40	40	82	82	124
20	35	12	50	50	100	100	150
35	60	15	60	60	120	120	180
60	90	18	72	72	142	142	212
90	140	18	85	85	165	165	245
140	240	18	100	100	192	192	284
240	300	18	110	110	214	214	318
300	320	18	135	135	261	261	287

GEG...E, GEG...ES, GEG...ES-2RS 系列

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

d mm		C2组 Group C2 μm		基本组 Group normal μm		C3组 Group C3 μm	
超过 over	到 incl.	min	max	min	max	min	max
—	10	8	32	32	68	68	104
10	17	10	40	40	82	82	124
17	30	12	50	50	100	100	150
30	50	15	60	60	120	120	180
50	80	18	72	72	142	142	212
80	120	18	85	85	165	165	245
120	160	18	100	100	192	192	284
160	220	18	100	100	192	192	284
220	280	18	110	110	214	214	318

GEF...ES 系列 Series GEF...ES

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	12	32	68
12	20	40	82
20	35	50	100
35	55	60	120
55	80	72	142
80	120	85	165
120	150	100	192

GEBJ...S, GEFZ...S 系列 Series GEBJ...S, GEFZ...S

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	8	20	60
8	14	40	90
14	20	50	110
20	35	60	120



GE...XS/K 系列 Series GE...XS/K

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	15	70	125
15	30	75	140
30	50	85	150
50	65	90	160
65	80	95	170
80	100	100	185
100	120	110	200
120	150	120	215

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

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	15.875 0.625	50	150
15.875 0.625	50.8 2	80	180
50.8 2	76.2 3	100	200
76.2 3	152.4 6	130	230

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

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
12.7 0.5	44.45 1.75	80	180
44.45 1.75	69.85 2.75	100	200
69.85 2.75	139.7 5.5	130	230

GEBK...S 系列 Series GEBK...S

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	30	0	35

GEC...XS, GEC...XS-2RS 系列 Series GEC...XS, GEC...XS-2RS

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
300	340	125	239
340	420	135	261
420	530	145	285

GEK...XS-2RS 系列 Series GEK...XS-2RS

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
20	35	100	200
35	60	120	250



钢对 PTFE 复合材料向心关节轴承径向游隙

Radial internal clearance of steel-on-PTFE composite material radial spherical plain bearings

GEH...HC 系列 Series GEH...HC

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
100	120	85	285
120	180	100	335
180	220	100	355
220	240	110	356
240	280	110	380
280	300	135	415
300	320	135	490
320	360	135	490
360	380	135	490
380	400	135	510
400	480	145	550
480	500	145	570
500	600	145	610
600	630	160	640

GE...C, GEG...C, GEBJ...C, GEFZ...C 系列 Series GE...C, GEG...C, GEBJ...C, GEFZ...C

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	12	4	28
12	20	5	35
20	30	6	44

钢对 PTFE 编织物、钢对铜合金向心关节轴承径向游隙

Radial internal clearance of steel-on-PTFE fabric and steel-on-copper alloy radial spherical plain bearings

GE...ET-2RS, GE...XT-2RS, GE...ET/X, GE...ET-2RS/X, GE...XT/X, GE...XT-2RS/X, GEZ...ET-2RS, GEC...XT, GEC...XT-2RS, GEC...HT 系列,

Series GE...ET-2RS, GE...XT-2RS, GE...ET/X, GE...ET-2RS/X, GE...XT/X, GE...XT-2RS/X, GEZ...ET-2RS, GEC...XT, GEC...XT-2RS, GEC...HT

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	20	0	40
20	35	0	50
35	60	0	60
60	90	0	72
90	140	0	85
140	240	0	100
240	300	0	110
300	340	125	239
340	420	135	261
420	600	145	285



GEG...ET-2RS, GEG...XT-2RS 系列 Series GEG...ET-2RS, GEG...XT-2RS

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	30	0	50
30	50	0	60
50	80	0	72
80	120	0	85
120	220	0	100
220	280	0	110

GEH...XT, GEH...XT-2RS, GEH...HT, GE...XF/Q, GEC...XF/Q, GEH...XF/Q, GEH...HF/Q 系列

Series GEH...XT, GEH...XT-2RS, GEH...HT, GE...XF/Q, GEC...XF/Q, GEH...XF/Q, GEH...HF/Q

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
90	120	85	165
120	180	100	192
180	240	110	214
240	300	125	239
300	380	135	261
380	480	145	285
480	600	160	320
600	630	170	350





向心关节轴承配合

Fits of radial spherical plain bearings

轴配合 Shaft fits

工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
各种载荷, 间隙或过渡配合 Loads of all kinds, clearance or transition fit	h6 轴淬火 hardened shaft	h6, g6
各种载荷, 过盈配合 Loads of all kinds, interference fit	m6	k6

支承座配合 Housing fits

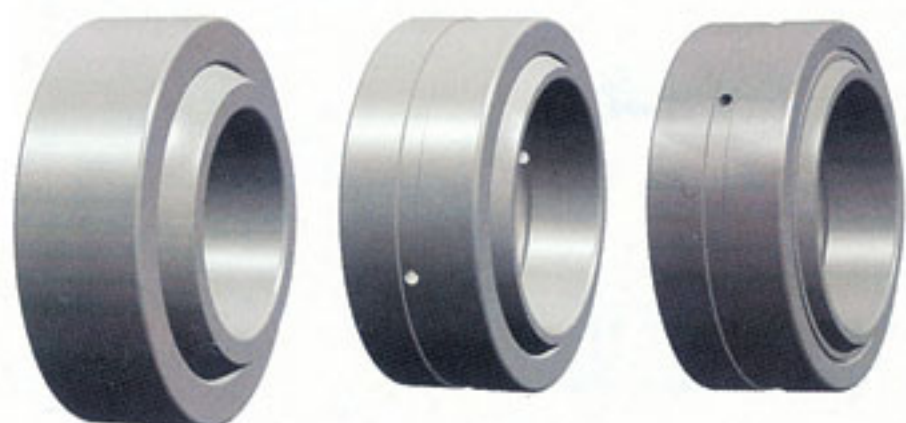
工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
轻载 Light loads 可轴向移动 Axial displacement required	H7	H7
重载 Heavy loads	M7	K7
轻合金支承座 Light alloy housings	N7	M7

轴径公差 Shaft diameter tolerances

轴径 Shaft diameter mm		轴径公差 Shaft diameter tolerances μm							
		g6		h6		k6		m6	
超过 over	到 incl.	high	low	high	low	high	low	high	low
3	6	-4	-12	0	-8	+9	+1	+12	+4
6	10	-5	-14	0	-9	+10	+1	+15	+6
10	18	-6	-17	0	-11	+12	+1	+18	+7
18	30	-7	-20	0	-13	+15	+2	+21	+8
30	50	-9	-25	0	-16	+18	+2	+25	+9
50	80	-10	-29	0	-19	+21	+2	+30	+11
80	120	-12	-34	0	-22	+25	+3	+35	+13
120	180	-14	-39	0	-25	+28	+3	+40	+15
180	250	-15	-44	0	-29	+33	+4	+46	+17
250	315	-17	-49	0	-32	+36	+4	+52	+20
315	400	-18	-54	0	-36	+40	+4	+57	+21
400	500	-20	-60	0	-40	+45	+5	+63	+23
500	630	-22	-66	0	-44	+44	0	+70	+26

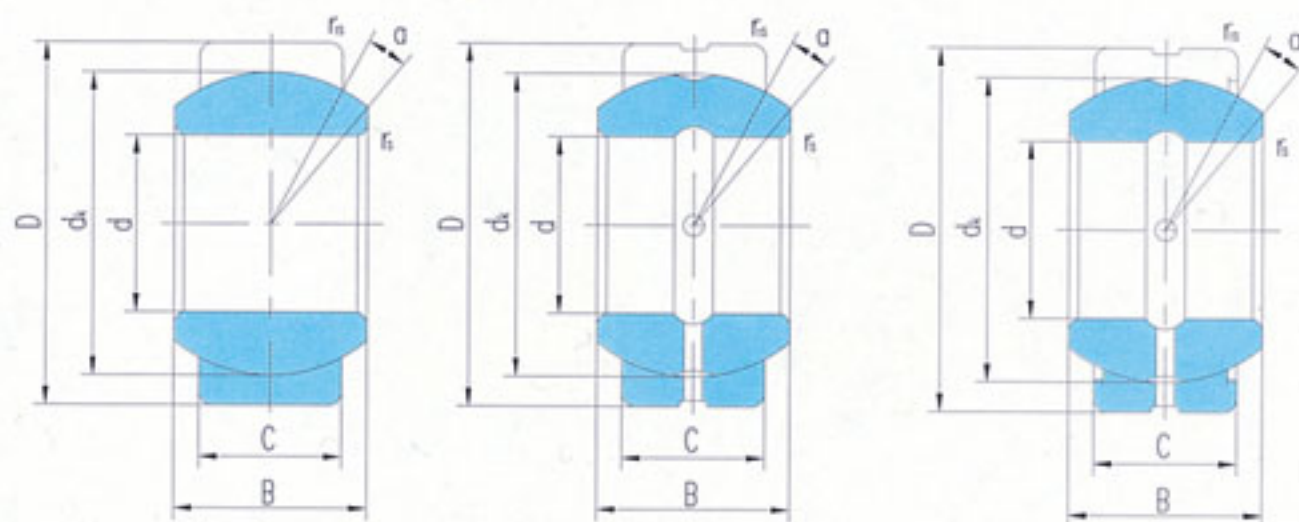
支承座孔公差 Housing bore tolerances

支承座孔径 Housing bore diameter mm		支承座孔公差 Housing bore tolerances μm							
		H7		K7		M7		N7	
超过 over	到 incl.	low	high	low	high	low	high	low	high
10	18	0	+18	-12	+6	-18	0	-23	-5
18	30	0	+21	-15	+6	-21	0	-28	-7
30	50	0	+25	-18	+7	-25	0	-33	-8
50	80	0	+30	-21	+9	-30	0	-39	-9
80	120	0	+35	-25	+10	-35	0	-45	-10
120	150	0	+40	-28	+12	-40	0	-52	-12
150	180	0	+40	-28	+12	-40	0	-52	-12
180	250	0	+46	-33	+13	-46	0	-60	-14
250	315	0	+52	-36	+16	-52	0	-66	-14
315	400	0	+57	-40	+17	-57	0	-73	-16
400	500	0	+63	-45	+18	-63	0	-80	-17
500	630	0	+70	-70	0	-	-	-	-
630	800	0	+80	-80	0	-	-	-	-
800	1000	0	+90	-90	0	-	-	-	-



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



GE...E

GE...ES

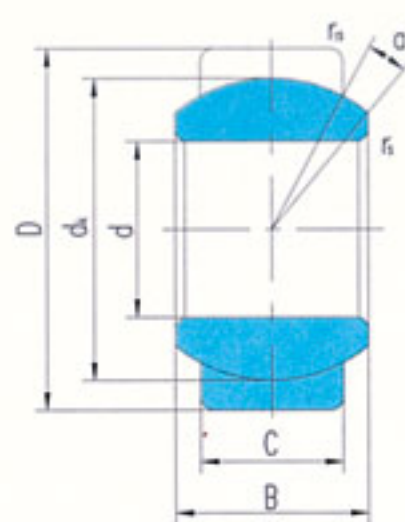
GE...ES-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	ris min	α° ≈	动载荷 Dynamic	静载荷 Static		
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

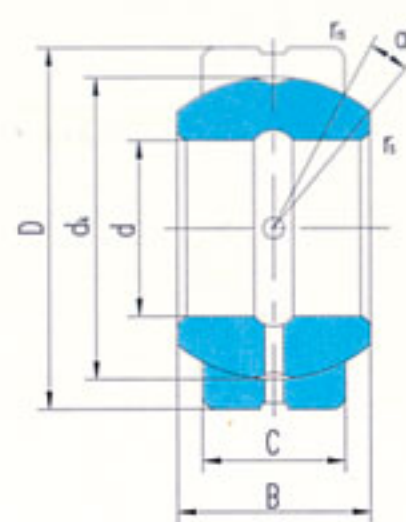


滑动摩擦副: 钢 / 钢

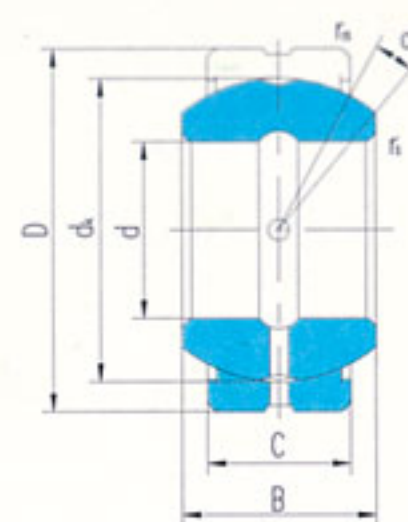
Sliding contact surfaces: Steel / Steel



GEG...E



GEG...ES



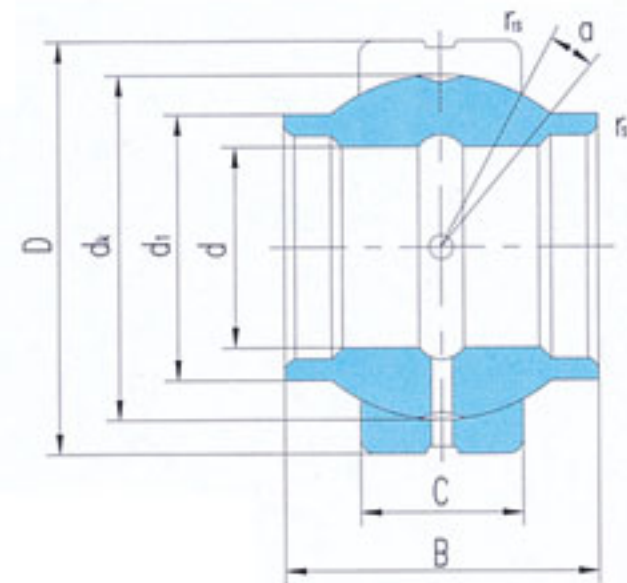
GEG...ES-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	rls min	α° ≈	动载荷 Dynamic	静载荷 Static		
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	
GEG15ES	GEG15ES-2RS	15	30	16	10	25	0.3	0.3	16	21	106	0.049
GEG17ES	GEG17ES-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



滑动摩擦副: 钢 / 钢

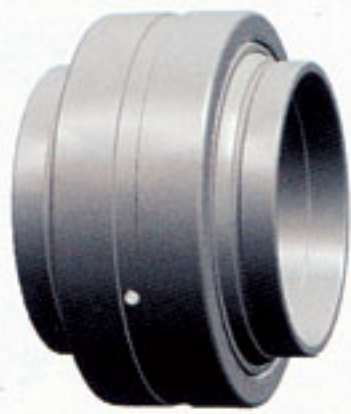
Sliding contact surfaces: Steel / Steel



轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	di max	dk	rs min	ri min	α° ≈	动载荷 Dynamic	静载荷 Static	
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

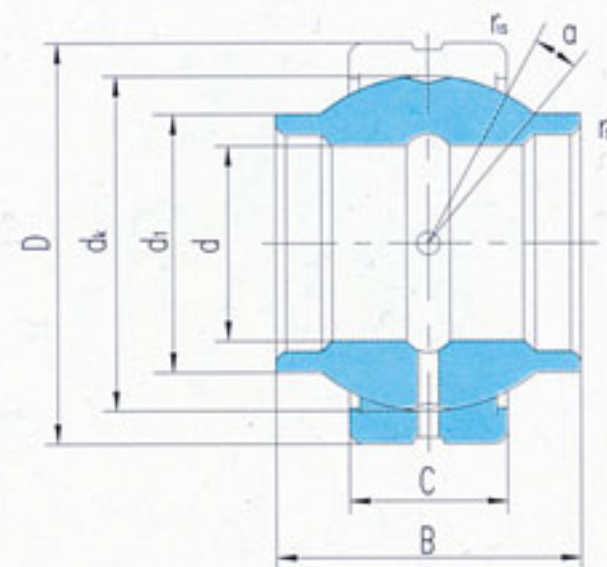
*仅外圈有润滑槽孔。A lubrication groove and holes in the outer ring only.

内径 $d \geq \phi 15\text{mm}$, 可提供带密封圈的向心关节轴承。Can supply spherical plain bearing with two seals for bore diameter $d \geq \phi 15\text{mm}$.



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	di max	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static	
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	0.6
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	2.5

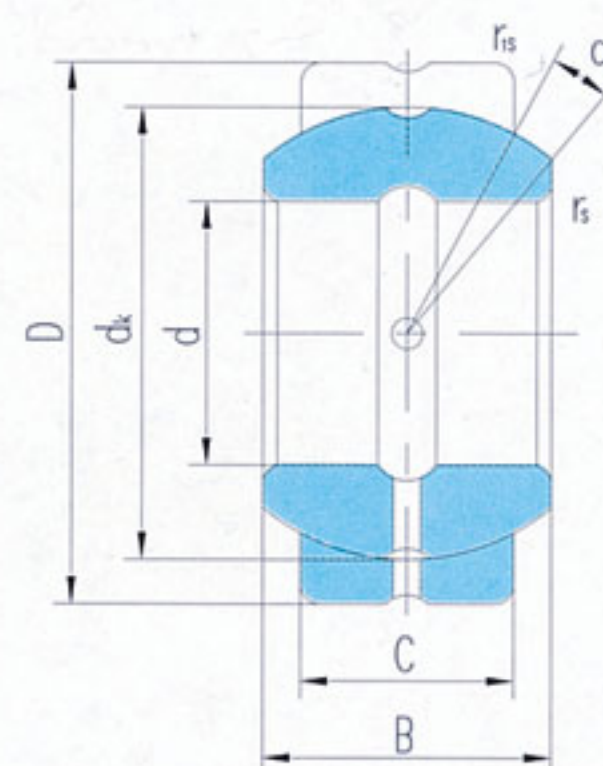


向心关节轴承 Radial Spherical Plain Bearings

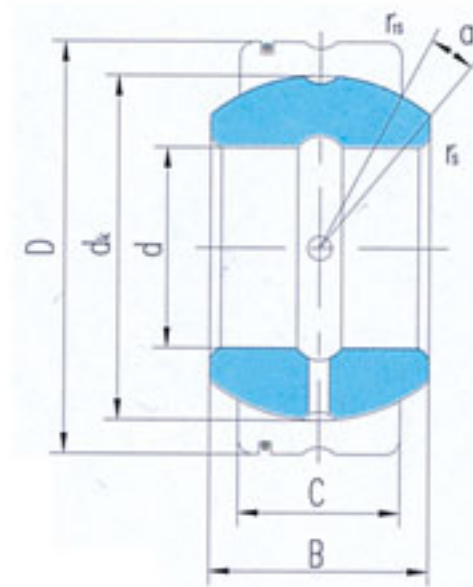


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



轴承 型号 Bearing number	外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r_s min	r_{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEF12ES	12	22	11	9	18	0.5	0.5	7	13	68	0.019
GEF15ES	15	26	13	11	22	0.5	0.5	6	20	102	0.028
GEF20ES	20	32	16	14	28	0.5	0.5	4	33	166	0.053
GEF22ES	22	37	19	16	32	0.5	0.5	6	43	217	0.085
GEF25ES	25	42	21	18	36	0.5	0.5	5	55	275	0.116
GEF30ES	30	50	27	23	45	1	1	6	87	439	0.225
GEF35ES	35	55	30	26	50	1	1	5	110	552	0.302
GEF40ES	40	62	33	28	55	1	1	6	130	654	0.375
GEF45ES	45	72	36	31	62	1	1	5	163	816	0.598
GEF50ES	50	80	42	36	72	1	1	5	220	1100	0.869
GEF55ES	55	90	47	40	80	1	1	6	272	1360	1.26
GEF60ES	60	100	53	45	90	1	1	6	344	1720	1.72
GEF65ES	65	105	55	47	94	1	1	5	375	1870	2.05
GEF70ES	70	110	58	50	100	1	1	5	425	2125	2.23
GEF75ES	75	120	64	55	110	1	1	5	510	2570	3.01
GEF80ES	80	130	70	60	120	1	1	5	610	3060	3.98
GEF85ES	85	135	74	63	125	1	1	6	669	3340	4.31
GEF90ES	90	140	76	65	130	1	1	5	718	3590	4.72
GEF95ES	95	150	82	70	140	1	1	5	833	4165	6.05
GEF100ES	100	160	88	75	150	1.5	1.5	5	956	4780	7.43
GEF110ES	110	170	93	80	160	1.5	1.5	5	1080	5440	8.54
GEF115ES	115	180	98	85	165	1.5	1.5	5	1190	5960	10.3
GEF120ES	120	190	105	90	175	1.5	1.5	6	1330	6690	12.4
GEF130ES	130	200	110	95	185	1.5	1.5	5	1490	7460	13.8
GEF150ES	150	220	120	105	205	1.5	1.5	5	1820	9140	17.1



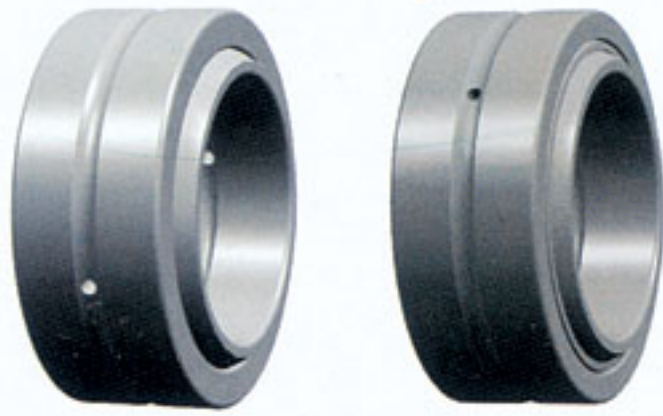
滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GE12XS/K	12	22	11	9	18	0.5	0.5	7	13	68	0.019
GE15XS/K	15	26	13	11	22	0.5	0.5	6	20	102	0.028
GE20XS/K	20	32	16	14	28	0.5	0.5	4	33	166	0.053
GE22XS/K	22	37	19	16	32	0.5	0.5	6	43	217	0.085
GE25XS/K	25	42	21	18	36	0.5	0.5	5	55	275	0.116
GE30XS/K	30	50	27	23	45	1	1	6	87	439	0.225
GE35XS/K	35	55	30	26	50	1	1	5	110	552	0.302
GE40XS/K	40	62	33	28	55	1	1	6	130	654	0.375
GE45XS/K	45	72	36	31	62	1	1	5	163	816	0.598
GE50XS/K	50	80	42	36	72	1	1	5	220	1100	0.869
GE55XS/K	55	90	47	40	80	1	1	6	272	1360	1.26
GE60XS/K	60	100	53	45	90	1	1	6	344	1720	1.72
GE65XS/K	65	105	55	47	94	1	1	5	375	1870	2.05
GE70XS/K	70	110	58	50	100	1	1	5	425	2125	2.23
GE75XS/K	75	120	64	55	110	1	1	5	510	2570	3.01
GE80XS/K	80	130	70	60	120	1	1	5	610	3060	3.98
GE85XS/K	85	135	74	63	125	1	1	6	669	3340	4.31
GE90XS/K	90	140	76	65	130	1	1	5	718	3590	4.72
GE95XS/K	95	150	82	70	140	1	1	5	833	4165	6.05
GE100XS/K	100	160	88	75	150	1.5	1.5	5	956	4780	7.43
GE110XS/K	110	170	93	80	160	1.5	1.5	5	1080	5440	8.54
GE115XS/K	115	180	98	85	165	1.5	1.5	5	1190	5960	10.3
GE120XS/K	120	190	105	90	175	1.5	1.5	6	1330	6690	12.4
GE130XS/K	130	200	110	95	185	1.5	1.5	5	1490	7460	13.8
GE150XS/K	150	220	120	105	205	1.5	1.5	5	1820	9140	17.1

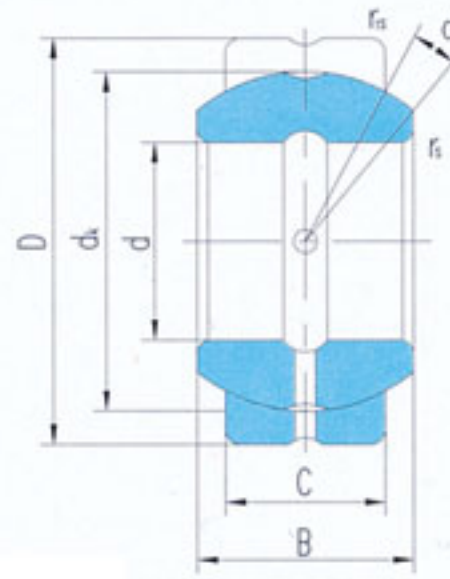


向心关节轴承 Radial Spherical Plain Bearings

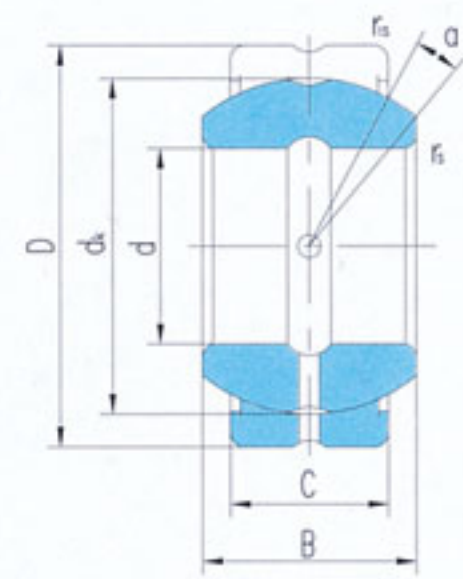


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



GEZ...ES

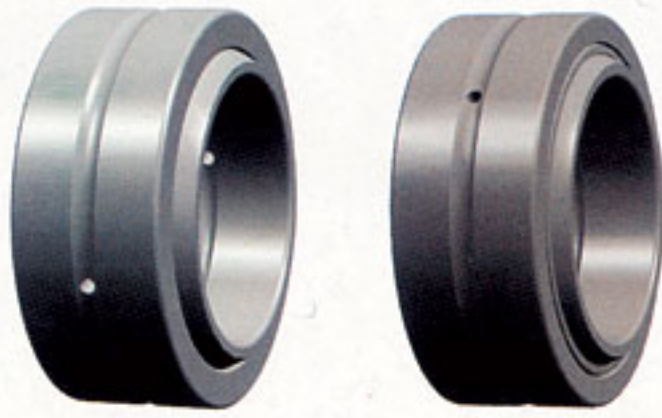


GEZ...ES-2RS

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	ris min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEZ12ES	12.700	22.225	11.100	9.525	18	0.15	0.6	6	13	41	0.022
	0.5	0.875	0.437	0.375	0.707	0.006	0.024				
GEZ15ES	15.875	26.988	13.894	11.913	23	0.15	0.6	6	22	65	0.036
	0.625	1.0625	0.547	0.469	0.904	0.006	0.024				
GEZ19ES	19.050	31.750	16.662	14.275	27.5	0.3	0.6	6	31	95	0.053
	0.75	1.25	0.656	0.562	1.081	0.012	0.024				
GEZ22ES	22.225	36.513	19.431	16.662	32	0.3	0.6	6	42	127	0.085
	0.875	1.4375	0.756	0.656	1.258	0.012	0.024				
GEZ25ES	25.400	41.275	22.225	19.050	36.5	0.3	0.6	6	56	166	0.121
	1	1.625	0.875	0.75	1.437	0.012	0.024				
GEZ31ES	31.750	50.800	27.762	23.800	45.5	0.6	0.6	6	86	260	0.23
	1.25	2	1.093	0.937	1.788	0.024	0.024				
GEZ34ES	34.925	55.563	30.150	26.187	49	0.6	1	6	102	310	0.35
	1.375	2.1875	1.187	1.031	1.926	0.024	0.04				
GEZ38ES	38.100	61.913	33.325	28.575	54.7	0.6	1	6	125	375	0.42
	1.5	2.4375	1.312	1.125	2.154	0.024	0.04				
GEZ44ES	44.450	71.438	38.887	33.325	63.9	0.6	1	6	170	510	0.64
	1.75	2.8125	1.531	1.312	2.511	0.024	0.04				
GEZ50ES	50.800	80.963	44.450	38.100	73	0.6	1	6	224	670	0.93
	2	3.1875	1.75	1.5	2.869	0.024	0.04				
GEZ57ES	57.150	90.488	50.013	42.850	82	0.6	1	6	280	850	1.3
	2.25	3.5625	1.969	1.687	3.223	0.024	0.04				
GEZ63ES	63.500	100.013	55.550	47.625	92	1	1	6	355	1060	1.85
	2.5	3.9375	2.187	1.875	3.616	0.04	0.04				
GEZ69ES	69.850	111.125	61.112	52.375	100	1	1	6	415	1250	2.4
	2.75	4.375	2.406	2.062	3.937	0.04	0.04				
GEZ76ES	76.200	120.650	66.675	57.150	109.5	1	1	6	500	1500	3.1
	3	4.75	2.625	2.25	4.303	0.04	0.04				
GEZ82ES	82.550	130.175	72.238	61.900	119	1	1	6	585	1760	3.8
	3.25	5.125	2.844	2.437	4.685	0.04	0.04				
GEZ88ES	88.900	139.700	77.775	66.675	128	1	1	6	680	2040	4.8
	3.5	5.5	3.062	2.625	5.04	0.04	0.04				

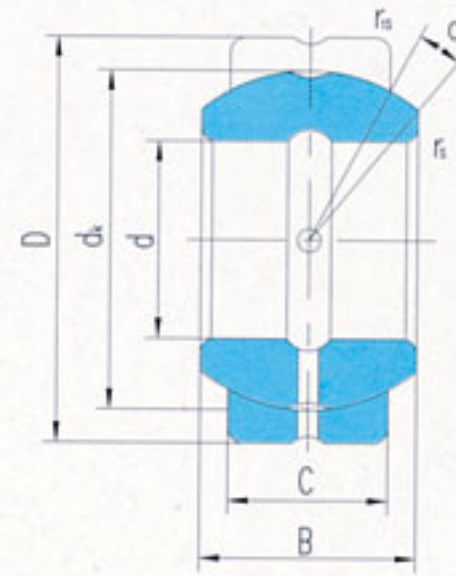


向心关节轴承 Radial Spherical Plain Bearings

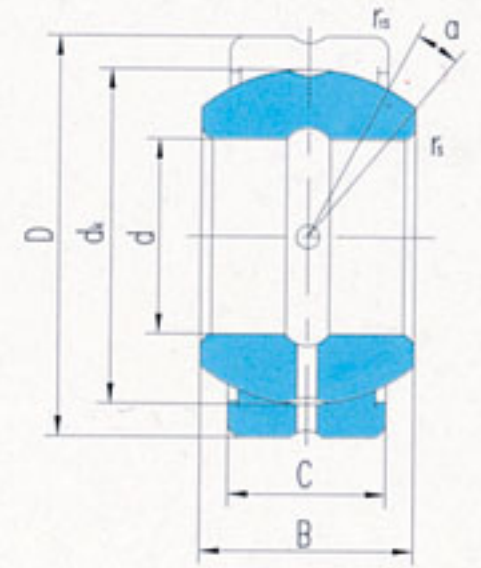


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



GEZ...ES



GEZ...ES-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg	
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static		
GEZ95ES	GEZ95ES-2RS	95.250	149.225	83.337	71.425	137	1	1	6	780	2360	5.8
		3.75	5.875	3.281	2.812	5.393	0.04	0.04				
GEZ101ES	GEZ101ES-2RS	101.600	158.750	88.900	76.200	146	1	1	6	900	2650	7
		4	6.25	3.5	3	5.748	0.04	0.04				
GEZ107ES	GEZ107ES-2RS	107.950	168.275	94.463	80.950	155	1	1	6	1000	3000	8.41
		4.25	6.625	3.719	3.187	6.102	0.04	0.04				
GEZ114ES	GEZ114ES-2RS	114.300	177.800	100.013	85.725	164.5	1	1	6	1120	3400	9.8
		4.5	7	3.937	3.375	6.476	0.04	0.04				
GEZ120ES	GEZ120ES-2RS	120.650	187.325	105.562	90.475	173.5	1	1	6	1250	3750	11.5
		4.75	7.375	4.156	3.562	6.83	0.04	0.04				
GEZ127ES	GEZ127ES-2RS	127.000	196.850	111.125	95.250	183	1	1	6	1400	4150	13.5
		5	7.75	4.375	3.75	7.204	0.04	0.04				
GEZ152ES	GEZ152ES-2RS	152.400	222.250	120.65	104.775	207	1	1	5	1730	5200	17.5
		6	8.75	4.75	4.125	8.15	0.04	0.04				

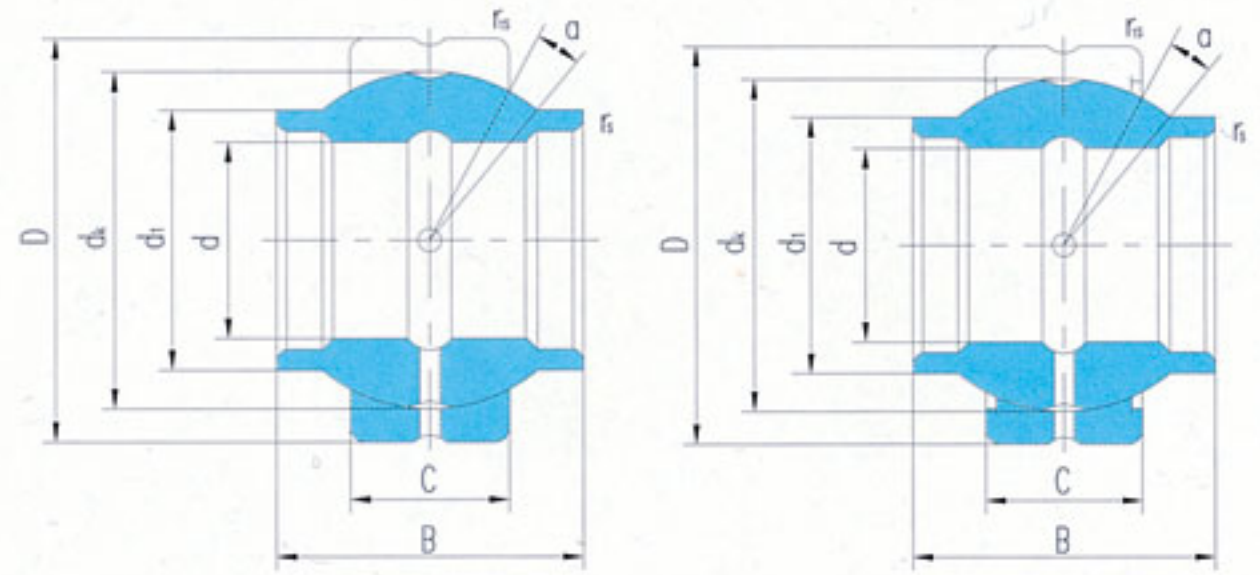


向心关节轴承 Radial Spherical Plain Bearings



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



GEWZ...ES

GEWZ...ES-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions										额定载荷 Load ratings kN		重量 Weight ≈kg
	mm/inch										动载荷 Dynamic	静载荷 Static	
	d	D	B	C	di max	dk	rs min	rls min	α° ≈				
GEWZ12ES	12.700	22.225	19.050	9.525	15.875	18	0.15	0.6	5	13	41	0.024	
	0.5	0.875	0.75	0.375	0.625	0.719	0.006	0.024					
GEWZ15ES	15.875	26.988	23.800	11.913	19.812	23	0.15	0.6	5	22	65	0.038	
	0.625	1.0625	0.937	0.469	0.78	0.899	0.006	0.024					
GEWZ19ES	19.050	31.750	28.575	14.275	23.368	27.5	0.3	0.6	5	31	95	0.064	
	0.75	1.25	1.125	0.562	0.92	1.08	0.012	0.024					
GEWZ22ES	22.225	36.513	33.325	16.662	27.178	32	0.3	0.6	5	42	127	0.098	
	0.875	1.4375	1.312	0.656	1.07	1.258	0.012	0.024					
GEWZ25ES	25.400	41.275	38.100	19.050	30.988	36.5	0.3	0.6	5	56	166	0.142	
	1	1.625	1.5	0.75	1.22	1.437	0.012	0.024					
GEWZ31ES	31.750	50.800	47.625	23.800	38.735	45.5	0.6	0.6	5	86	260	0.271	
	1.25	2	1.875	0.937	1.525	1.795	0.024	0.024					
GEWZ34ES	34.925	55.563	52.375	26.187	42.418	49	0.6	1	5	102	310	0.373	
	1.375	2.1875	2.062	1.031	1.67	1.937	0.024	0.04					
GEWZ38ES	38.100	61.913	57.150	28.575	46.99	54.7	0.6	1	5	125	375	0.494	
	1.5	2.4375	2.25	1.125	1.85	2.155	0.024	0.04					
GEWZ44ES	44.450	71.438	66.675	33.325	54.991	63.9	0.6	1	5	170	510	0.762	
	1.75	2.8125	2.625	1.312	2.165	2.515	0.024	0.04					
GEWZ50ES	50.800	80.963	76.200	38.100	62.484	73	0.6	1	5	224	670	1.11	
	2	3.1875	3	1.5	2.46	2.875	0.024	0.04					
GEWZ57ES	57.150	90.488	85.725	42.850	70.104	82	0.6	1	5	280	850	1.57	
	2.25	3.5625	3.375	1.687	2.76	3.235	0.024	0.04					
GEWZ63ES	63.500	100.013	95.250	47.625	77.724	92	1	1	5	355	1060	2.15	
	2.5	3.9375	3.75	1.875	3.06	3.59	0.04	0.04					
GEWZ69ES	69.850	111.125	104.775	52.375	85.852	100	1	1	5	415	1250	2.9	
	2.75	4.375	4.125	2.062	3.38	3.95	0.04	0.04					
GEWZ76ES	76.200	120.650	114.300	57.150	93.345	109.5	1	1	5	500	1500	3.59	
	3	4.75	4.5	2.25	3.675	4.312	0.04	0.04					
GEWZ82ES	82.550	130.175	123.825	61.900	101.219	119	1	1	5	585	1760	4.69	
	3.25	5.125	4.875	2.437	3.985	4.675	0.04	0.04					
GEWZ88ES	88.900	139.700	133.350	66.675	109.22	128	1	1	5	680	2040	5.86	
	3.5	5.5	5.25	2.625	4.3	5.04	0.04	0.04					

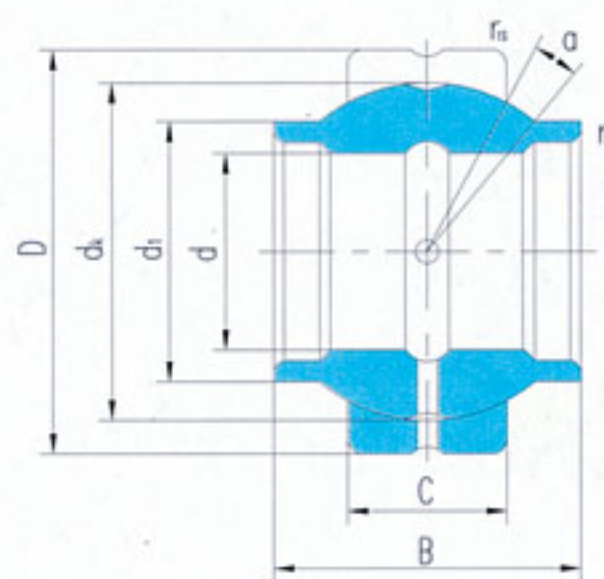


向心关节轴承 Radial Spherical Plain Bearings

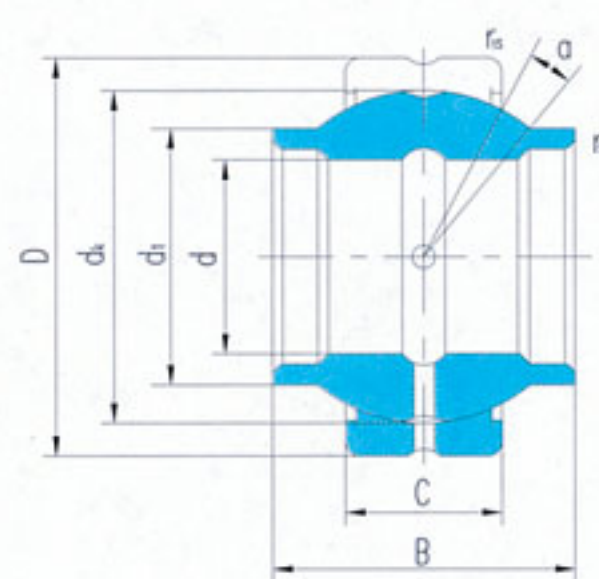


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

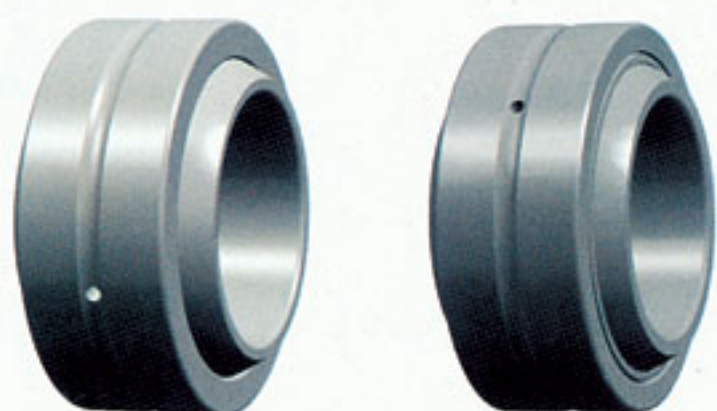


GEWZ...ES



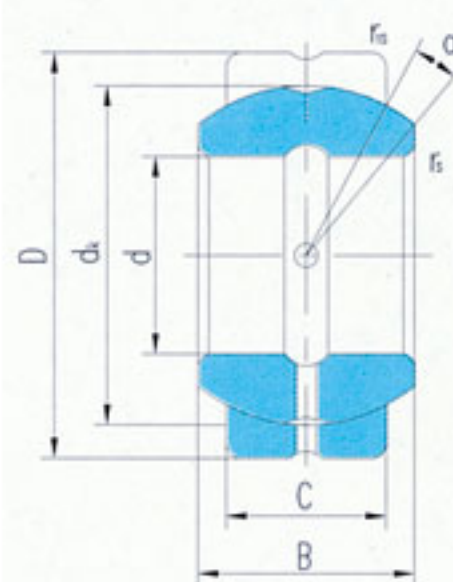
GEWZ...ES-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions										额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	d ₁ max	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static		
GEWZ95ES	GEWZ95ES-2RS	95.250	149.225	142.875	71.425	116.586	137	1	1	5	780	2360	7.11
		3.75	5.875	5.625	2.812	4.59	5.39	0.04	0.04				
GEWZ101ES	GEWZ101ES-2RS	101.600	158.750	152.400	76.200	124.587	146	1	1	5	900	2650	8.56
		4	6.25	6	3	4.905	5.75	0.04	0.04				
GEWZ114ES	GEWZ114ES-2RS	114.300	177.800	171.450	85.725	140.335	164.5	1	1	5	1120	3400	12.24
		4.5	7	6.75	3.375	5.525	6.475	0.04	0.04				
GEWZ127ES	GEWZ127ES-2RS	127.000	196.850	190.500	95.250	155.705	183	1	1	5	1400	4150	16.63
		5	7.75	7.5	3.75	6.13	7.19	0.04	0.04				
GEWZ152ES	GEWZ152ES-2RS	152.400	222.250	209.550	104.775	178.308	207	1	1	5	1730	5200	20.7
		6	8.75	8.25	4.125	7.02	8.156	0.04	0.04				

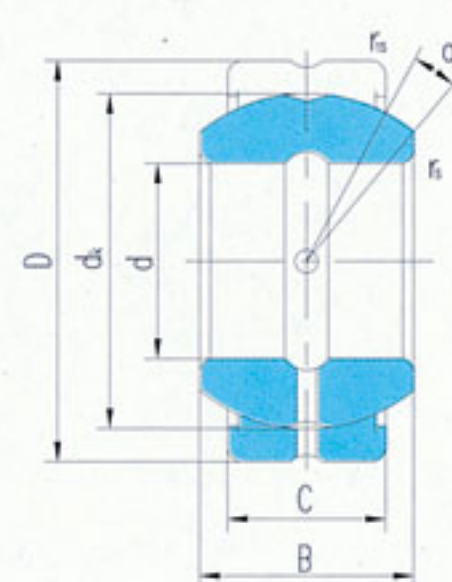


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

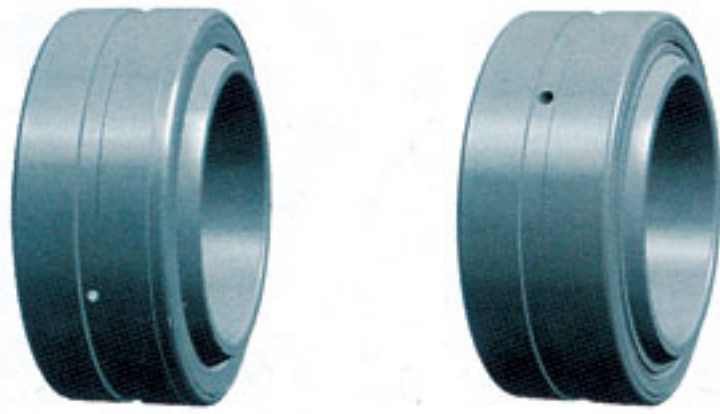


GEGZ...ES



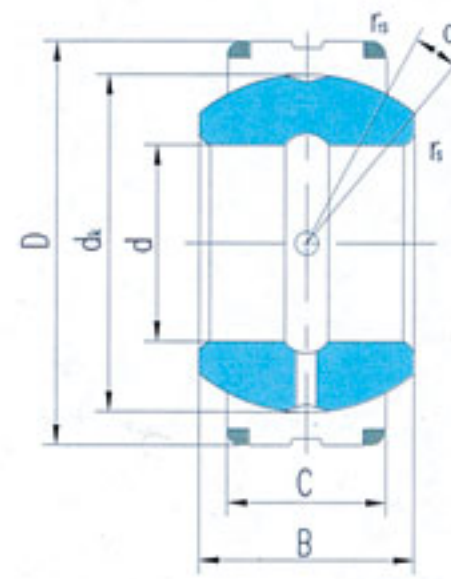
GEGZ...ES-2RS

轴承 型号 Bearing number		外形尺寸 Dimensions							额定载荷 Load ratings kN		重量 Weight ≈kg	
		mm/inch							动载荷 Dynamic	静载荷 Static		
		d	D	B	C	dk	rs min	ris min	α° ≈			
GEGZ31ES	GEGZ31ES-2RS	31.750	61.913	35.306	28.575	54.7	0.6	1	15	125	375	0.454
		1.25	2.4375	1.39	1.125	2.155	0.024	0.04				
GEGZ38ES	GEGZ38ES-2RS	38.100	71.438	40.132	33.325	63.9	0.6	1	14	170	510	0.726
		1.5	2.8125	1.58	1.312	2.515	0.024	0.04				
GEGZ44ES	GEGZ44ES-2RS	44.450	80.963	46.228	38.100	73	0.6	1	14	224	670	1.14
		1.75	3.1875	1.82	1.5	2.875	0.024	0.04				
GEGZ50ES	GEGZ50ES-2RS	50.800	90.488	52.578	42.850	82	0.6	1	14	280	850	1.68
		2	3.5625	2.07	1.687	3.235	0.024	0.04				
GEGZ57ES	GEGZ57ES-2RS	57.150	100.013	58.877	47.625	92	0.6	1	14	355	1060	2.01
		2.25	3.9375	2.318	1.875	3.59	0.024	0.04				
GEGZ63ES	GEGZ63ES-2RS	63.500	111.125	64.643	52.375	100	1	1	14	415	1250	2.95
		2.5	4.375	2.545	2.062	3.95	0.04	0.04				
GEGZ69ES	GEGZ69ES-2RS	69.850	120.650	70.866	57.150	109.5	1	1	14	500	1500	3.63
		2.75	4.75	2.79	2.25	4.312	0.04	0.04				
GEGZ76ES	GEGZ76ES-2RS	76.200	130.175	76.759	61.900	119	1	1	14	585	1760	4.36
		3	5.125	3.022	2.437	4.675	0.04	0.04				
GEGZ82ES	GEGZ82ES-2RS	82.550	139.700	82.931	66.675	128	1	1	14	680	2040	5.31
		3.25	5.5	3.265	2.625	5.04	0.04	0.04				
GEGZ88ES	GEGZ88ES-2RS	88.900	149.225	90.424	71.425	137	1	1	14	780	2360	6.81
		3.5	5.875	3.56	2.812	5.39	0.04	0.04				
GEGZ95ES	GEGZ95ES-2RS	95.250	158.750	94.945	76.200	146	1	1	14	900	2650	8.85
		3.75	6.25	3.738	3	5.75	0.04	0.04				
GEGZ101ES	GEGZ101ES-2RS	101.600	177.800	107.315	85.725	164.5	1	1	10	1120	3400	10.2
		4	7	4.225	3.375	6.475	0.04	0.04				
GEGZ114ES	GEGZ114ES-2RS	114.300	196.850	119.126	95.250	183	1	1	10	1400	4150	13.6
		4.5	7.75	4.69	3.75	7.19	0.04	0.04				
GEGZ139ES	GEGZ139ES-2RS	139.700	222.250	125.730	104.775	207	1	1	9	1730	5200	20.4
		5.5	8.75	4.95	4.125	8.156	0.04	0.04				

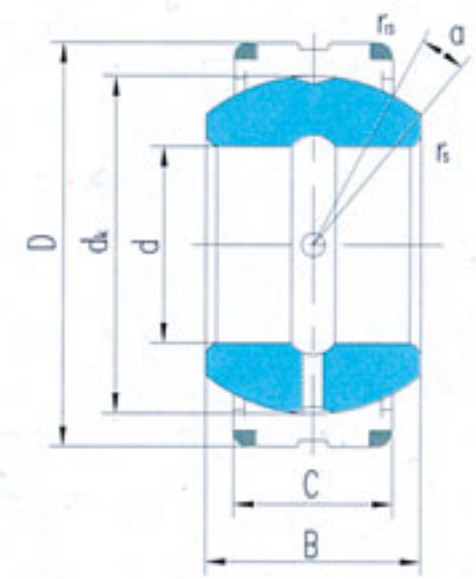


滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel



GEC...XS



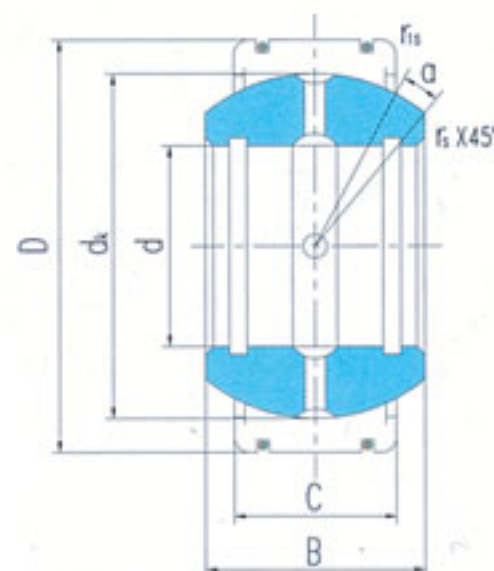
GEC...XS-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static		
GEC320XS	GEC320XS-2RS	320	440	160	135	380	1.1	3	4	4400	22000	78
GEC340XS	GEC340XS-2RS	340	460	160	135	400	1.1	3	3	4650	23200	83
GEC360XS	GEC360XS-2RS	360	480	160	135	420	1.1	3	3	4800	24000	87
GEC380XS	GEC380XS-2RS	380	520	190	160	450	1.5	4	4	6300	31500	129
GEC400XS	GEC400XS-2RS	400	540	190	160	470	1.5	4	3	6550	32500	135
GEC420XS	GEC420XS-2RS	420	560	190	160	490	1.5	4	3	6800	34500	141
GEC440XS	GEC440XS-2RS	440	600	218	185	520	1.5	4	3	8650	42300	196
GEC460XS	GEC460XS-2RS	460	620	218	185	540	1.5	4	3	9000	45000	204



滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

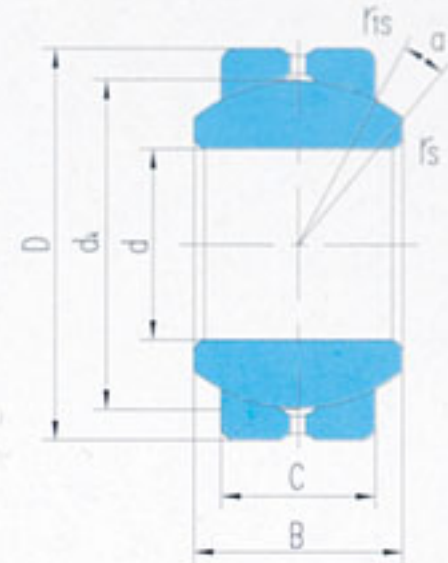


轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEK25XS-2RS	25	68	40	28	50	0.6	1	19	117	590	0.707
GEK30XS-2RS	30	70	47	32	60	0.6	1	19	163	813	0.814
GEK35XS-2RS	35	80	54	38	70	0.6	1	17	226	1130	1.23
GEK40XS-2RS	40	90	64	44	80	0.6	1	19	298	1490	1.83
GEK45XS-2RS	45	100	72	52	90	0.6	1	17	398	1990	2.56
GEK50XS-2RS	50	110	80	58	100	1	1	17	493	2450	3.43
GEK55XS-2RS	55	125	90	64	110	1	1	19	598	2990	5.02
GEK60XS-2RS	60	135	98	72	120	1	1	17	732	3660	6.93



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

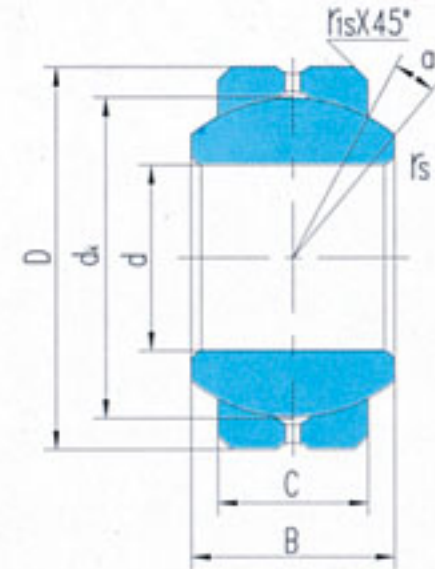


轴承 型号 Bearing number	外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEBJ5S	5	13	8	6	11.112	0.3	0.3	13	3.2	9	0.007
GEBJ6S	6	16	9	6.75	12.7	0.3	0.3	13	4.1	12	0.010
GEBJ8S	8	19	12	9	15.88	0.3	0.3	13	6.5	20	0.016
GEBJ10S	10	22	14	10.5	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	0.14
GEBJ20S	20	40	25	18	34.93	0.6	0.6	15	30	89	0.18
GEBJ22S	22	42	28	20	38.1	0.6	0.6	15	36	108	0.21
GEBJ25S	25	47	31	22	42.86	0.6	0.6	15	45	130	0.35
GEBJ30S	30	55	37	25	50.8	0.6	0.6	15	61	178	0.56



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

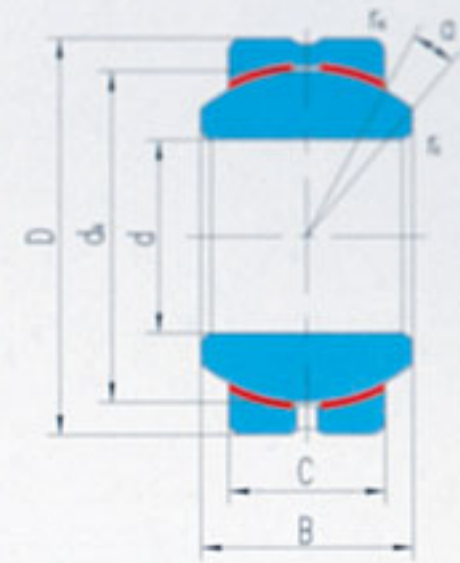


轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEFZ4S	4.83	14.29	7.14	5.54	10.31	0.3	0.38	11	3	15	0.006
	0.19	0.5625	0.281	0.218	0.406	0.012	0.015				
GEFZ6S	6.35	16.67	8.71	6.35	12.70	0.3	0.56	13.5	4.4	22	0.010
	0.25	0.6562	0.343	0.25	0.5	0.012	0.022				
GEFZ7S	7.94	19.05	9.53	7.14	14.27	0.3	0.81	12	6	28	0.014
	0.3125	0.75	0.375	0.281	0.562	0.012	0.032				
GEFZ9S	9.53	20.64	10.31	7.92	16.66	0.3	0.81	10	7.4	37	0.017
	0.375	0.8125	0.406	0.312	0.656	0.012	0.032				
GEFZ11S	11.11	23.02	11.10	8.71	17.45	0.3	0.81	8	8.4	42	0.021
	0.4375	0.9062	0.437	0.343	0.687	0.012	0.032				
GEFZ12S	12.70	25.40	12.70	9.91	20.65	0.3	0.81	9.5	12	58	0.029
	0.5	1	0.5	0.39	0.813	0.012	0.032				
GEFZ14S	14.29	27.78	14.27	11.10	23.01	0.3	0.81	9.5	15	73	0.039
	0.5625	1.0937	0.562	0.437	0.906	0.012	0.032				
GEFZ15S	15.88	30.16	15.88	12.70	25.40	0.3	0.81	9.5	19	94	0.050
	0.625	1.1875	0.625	0.5	1	0.012	0.032				
GEFZ19S	19.05	36.51	19.05	15.06	30.15	0.3	1.12	9	28	141	0.093
	0.75	1.4375	0.75	0.593	1.187	0.012	0.044				
GEFZ22S	22.23	39.69	22.23	17.86	33.32	0.6	1.12	9.5	37	186	0.119
	0.875	1.5625	0.703	0.875	1.312	0.024	0.044				
GEFZ25S	25.40	44.45	25.40	20.24	38.10	0.6	1.12	10	49	245	0.175
	1	1.75	1	0.797	1.5	0.024	0.044				

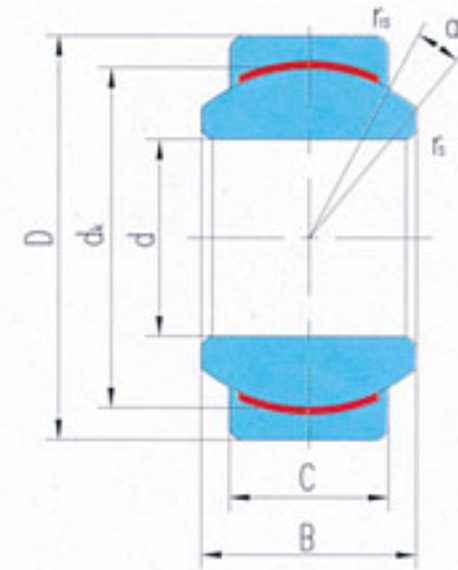


滑动摩擦副: 钢 / 青铜

Sliding contact surfaces: Steel / Bronze



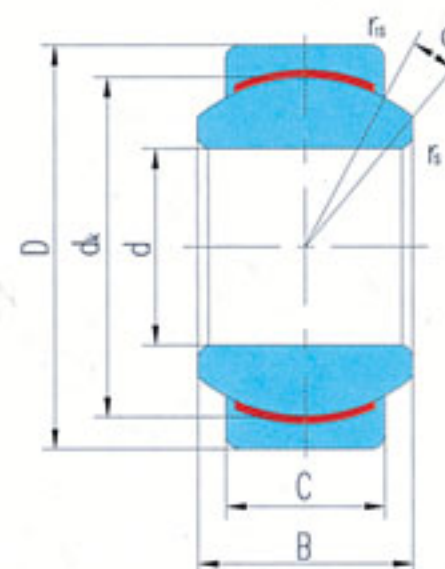
轴承 型号 Bearing number	外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	rs min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEBK5S	5	16	8	6	11.112	0.3	0.3	13	3.3	7.8	0.009
GEBK6S	6	18	9	6.75	12.7	0.3	0.3	13	4.3	9.8	0.013
GEBK8S	8	22	12	9	15.88	0.3	0.3	14	6.8	16	0.024
GEBK10S	10	26	14	10.5	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	0.16
GEBK20S	20	46	25	18	34.93	0.6	0.6	15	31	73	0.21
GEBK22S	22	50	28	20	38.1	0.6	0.6	15	38	88	0.26
GEBK25S	25	56	31	22	42.86	0.6	0.6	15	47	110	0.39
GEBK28S	28	62	35	25	47.63	0.6	0.6	15	59	138	0.53
GEBK30S	30	66	37	25	50.8	0.6	0.6	17	63	148	0.61



滑动摩擦副: 钢 / PTFE 复合材料

Sliding contact surfaces: Steel / PTFE composite material

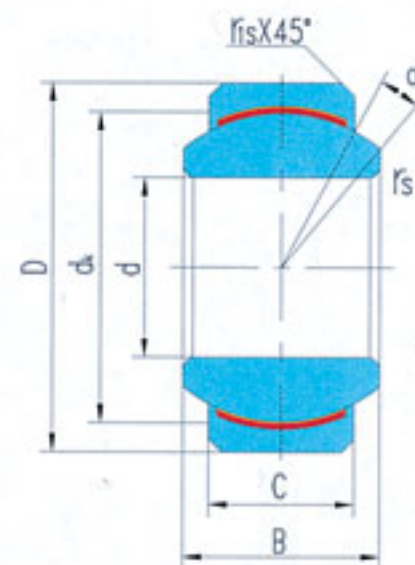
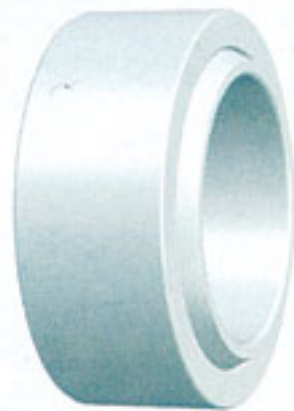
轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{is} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GE4C	4	12	5	3	8	0.3	0.3	16	2.1	5.4	0.003
GE5C	5	14	6	4	10	0.3	0.3	13	3.6	9.1	0.005
GE6C	6	14	6	4	10	0.3	0.3	13	3.6	9.1	0.004
GE8C	8	16	8	5	13	0.3	0.3	15	5.8	14	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



滑动摩擦副: 钢 / PTFE 复合材料

Sliding contact surfaces: Steel / PTFE composite material

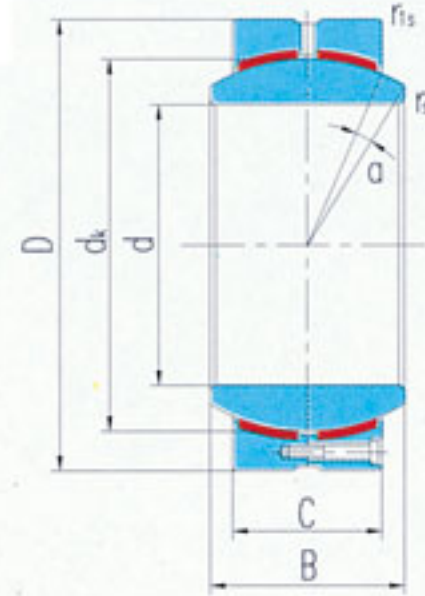
轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	rs min	rs min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEBJ5C	5	13	8	6	11.112	0.3	0.3	13	6	15	0.007
GEBJ6C	6	16	9	6.75	12.7	0.3	0.3	13	7.7	19	0.010
GEBJ8C	8	19	12	9	15.88	0.3	0.3	13	13	32	0.016
GEBJ10C	10	22	14	10.5	19.05	0.3	0.6	13	18	45	0.031
GEBJ12C	12	26	16	12	22.23	0.3	0.6	13	24	60	0.055
GEBJ14C	14	28	19	13.5	25.4	0.3	0.6	15	31	77	0.078
GEBJ16C	16	32	21	15	28.58	0.3	0.6	15	38	96	0.095
GEBJ18C	18	35	23	16.5	31.75	0.6	0.6	15	47	117	0.14
GEBJ20C	20	40	25	18	34.93	0.6	0.6	15	56	141	0.18
GEBJ22C	22	42	28	20	38.1	0.6	0.6	15	68	171	0.21
GEBJ25C	25	47	31	22	42.86	0.6	0.6	15	84	212	0.35
GEBJ30C	30	55	37	25	50.8	0.6	0.6	15	113	283	0.56



滑动摩擦副: 钢 / PTFE 复合材料

Sliding contact surfaces: Steel / PTFE composite material

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEFZ4C	4.83	14.29	7.14	5.54	10.31	0.3	0.38	11	5.1	12.8	0.006
	0.19	0.5625	0.281	0.218	0.406	0.012	0.015				
GEFZ6C	6.35	16.67	8.71	6.35	12.70	0.3	0.56	13.5	7.2	18.4	0.010
	0.25	0.6562	0.343	0.25	0.5	0.012	0.022				
GEFZ7C	7.94	19.05	9.53	7.14	14.27	0.3	0.81	12	9.1	22.9	0.014
	0.3125	0.75	0.375	0.281	0.562	0.012	0.032				
GEFZ9C	9.53	20.64	10.31	7.92	16.66	0.3	0.81	10	11.8	29.6	0.017
	0.375	0.8125	0.406	0.312	0.656	0.012	0.032				
GEFZ11C	11.11	23.02	11.10	8.71	17.45	0.3	0.81	8	13.6	34.1	0.021
	0.4375	0.9062	0.437	0.343	0.687	0.012	0.032				
GEFZ12C	12.70	25.40	12.70	9.91	20.65	0.3	0.81	9.5	18.4	46	0.029
	0.5	1	0.5	0.39	0.813	0.012	0.032				
GEFZ14C	14.29	27.78	14.27	11.10	23.01	0.3	0.81	9.5	23	57.4	0.039
	0.5625	1.0937	0.562	0.437	0.906	0.012	0.032				
GEFZ15C	15.88	30.16	15.88	12.70	25.40	0.3	0.81	9.5	29	72.5	0.050
	0.625	1.1875	0.625	0.5	1	0.012	0.032				
GEFZ19C	19.05	36.51	19.05	15.06	30.15	0.3	1.12	9	40.8	102.1	0.093
	0.75	1.4375	0.75	0.593	1.187	0.012	0.044				
GEFZ22C	22.23	39.69	22.23	17.86	33.32	0.6	1.12	9.5	53.5	133.8	0.119
	0.875	1.5625	0.703	0.875	1.312	0.024	0.044				
GEFZ25C	25.40	44.45	25.40	20.24	38.10	0.6	1.12	10	69.4	173.5	0.175
	1	1.75	1	0.797	1.5	0.024	0.044				



滑动摩擦副：钢 / PTFE 复合材料

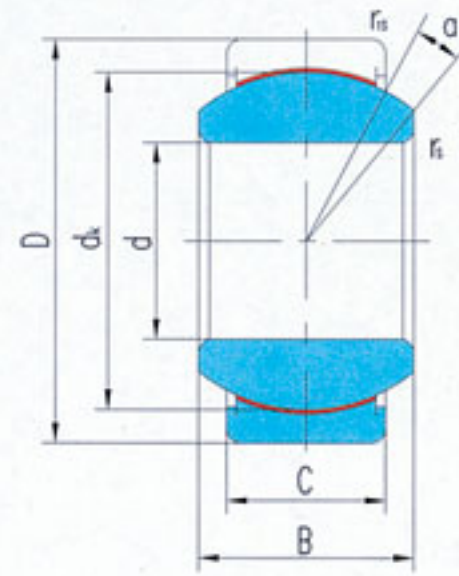
Sliding contact surfaces: Steel / PTFE composite material

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEH100HC	100	150	71	67	135	1	1	2	810	1350	5.24
GEH110HC	110	160	78	74	145	1	1	2	960	1650	6.23
GEH120HC	120	180	85	80	160	1	1	2	1150	1950	9.01
GEH140HC	140	210	100	95	185	1	1	2	1580	2700	14.5
GEH160HC	160	230	115	109	210	1	1	2	2060	3600	18.6
GEH180HC	180	260	128	122	240	1.1	1.1	2	2630	4600	26.8
GEH200HC	200	290	140	134	260	1.1	1.1	2	3130	5500	36.7
GEH220HC	220	320	155	148	290	1.1	1.1	2	3860	6800	49.8
GEH240HC	240	340	170	162	310	1.1	1.1	2	4510	8000	58.5
GEH260HC	260	370	185	175	340	1.1	1.1	2	5350	9500	75.7
GEH280HC	280	400	200	190	370	1.1	1.1	2	6320	11200	96.8
GEH300HC	300	430	212	200	390	1.1	1.1	2	7020	12500	118
GEH320HC	320	460	230	218	414	1.1	3	2	8120	14500	148
GEH340HC	340	480	243	230	434	1.1	3	2	8980	16000	163
GEH360HC	360	520	258	243	474	1.1	4	2	10300	18400	213
GEH380HC	380	540	272	258	494	1.5	4	2	11400	20400	236
GEH400HC	400	580	280	265	514	1.5	4	2	12200	21800	290
GEH420HC	420	600	300	280	534	1.5	4	2	13400	24000	319
GEH440HC	440	630	315	300	574	1.5	4	2	15400	27600	379
GEH460HC	460	650	325	308	593	1.5	4	2	16400	29300	404
GEH480HC	480	680	340	320	623	2	5	2	17900	32000	463
GEH500HC	500	710	355	335	643	2	5	2	19300	34600	529
GEH530HC	530	750	375	355	673	2	5	2	21500	38500	620
GEH560HC	560	800	400	380	723	2	5	2	24700	44300	770
GEH600HC	600	850	425	400	773	2	6	2	27800	49800	903
GEH630HC	630	900	450	425	813	3	6	2	31000	55700	1092

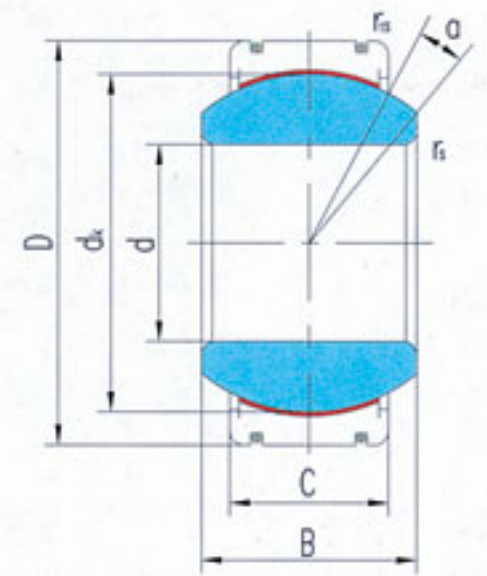


滑动摩擦副: 钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric



GE...ET-2RS



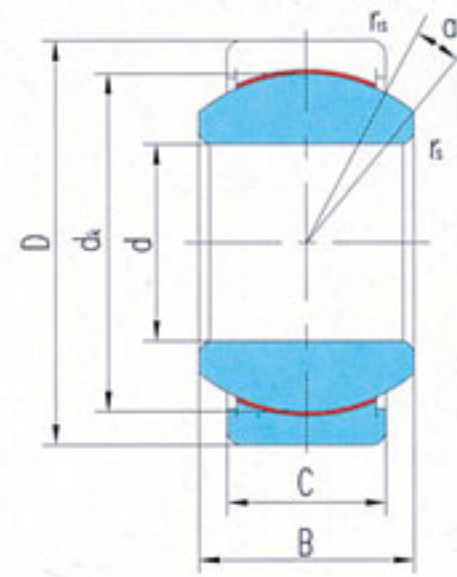
GE...XT-2RS

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	rs min	rls min	α° ≈	动载荷 Dynamic	静载荷 Static	
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

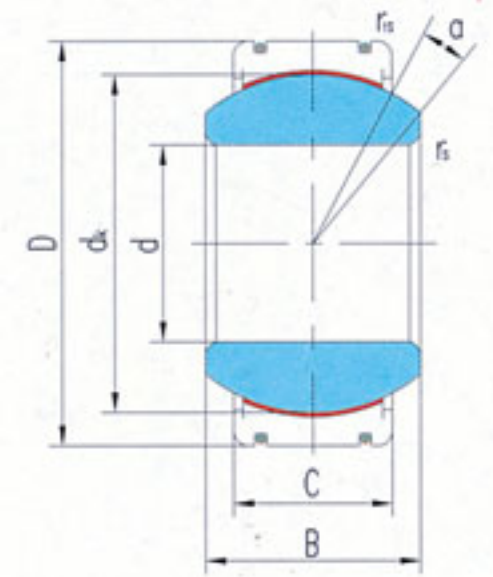


滑动摩擦副: 钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric

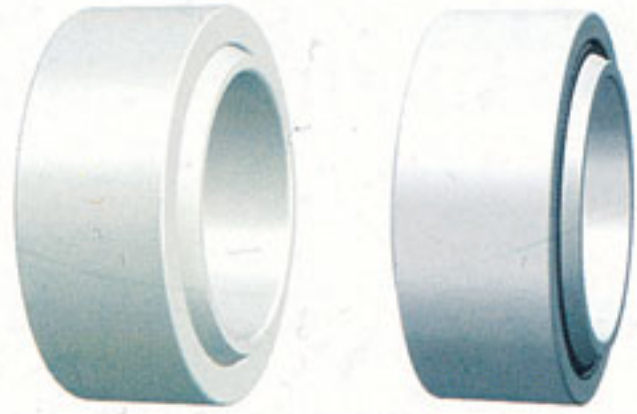


GEG...ET-2RS



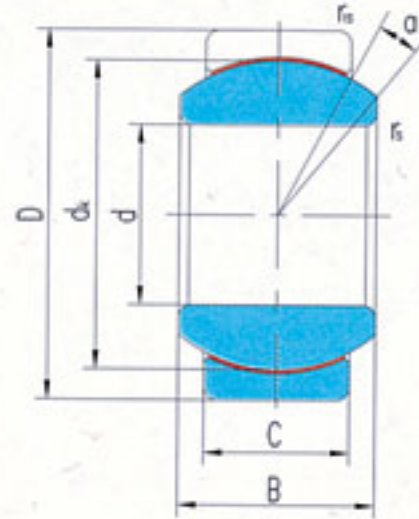
GEG...XT-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	rs min	α° ≈	动载荷 Dynamic	静载荷 Static	
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
GEG45ET-2RS	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
GEG120XT-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

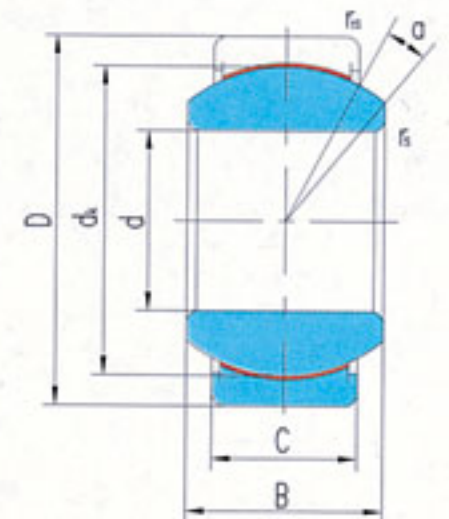


滑动摩擦副：不锈钢 / PTFE 编织物

Sliding contact surfaces: Stainless steel / PTFE fabric

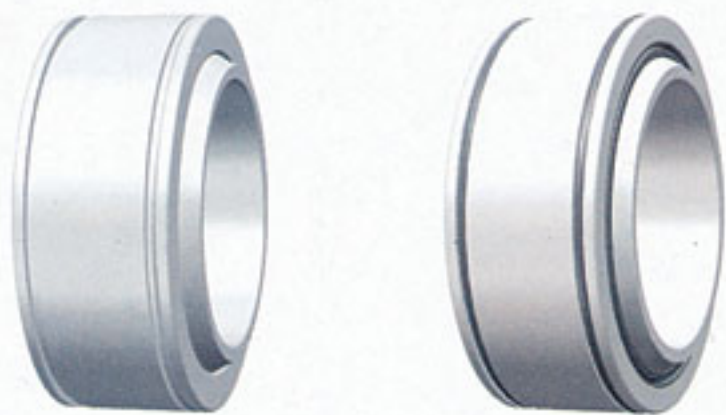


GE...ET/X



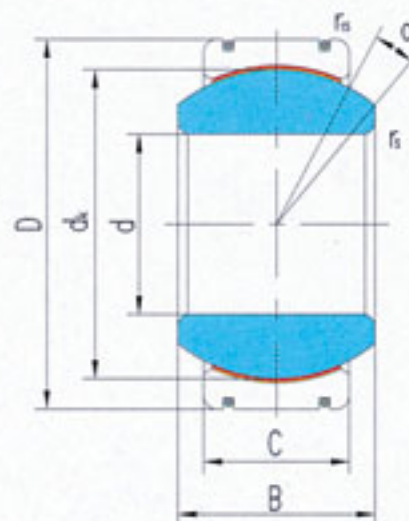
GE...ET-2RS/X

轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷	静载荷		
									Dynamic	Static		
GE15ET/X	GE15ET-2RS/X	15	26	12	9	22	0.3	0.3	8	25	50	0.027
GE17ET/X	GE17ET-2RS/X	17	30	14	10	25	0.3	0.3	10	32	64	0.041
GE20ET/X	GE20ET-2RS/X	20	35	16	12	29	0.3	0.3	9	45	90	0.066
GE25ET/X	GE25ET-2RS/X	25	42	20	16	35.5	0.6	0.6	7	85	170	0.119
GE30ET/X	GE30ET-2RS/X	30	47	22	18	40.7	0.6	0.6	6	110	220	0.153
GE35ET/X	GE35ET-2RS/X	35	55	25	20	47	0.6	1	6	140	280	0.233
GE40ET/X	GE40ET-2RS/X	40	62	28	22	53	0.6	1	7	175	350	0.306
GE45ET/X	GE45ET-2RS/X	45	68	32	25	60	0.6	1	7	225	450	0.427
GE50ET/X	GE50ET-2RS/X	50	75	35	28	66	0.6	1	6	275	550	0.546
GE55ET/X	GE55ET-2RS/X	55	85	40	32	74	0.6	1	7	355	710	0.939
GE60ET/X	GE60ET-2RS/X	60	90	44	36	80	1	1	6	430	860	1.04

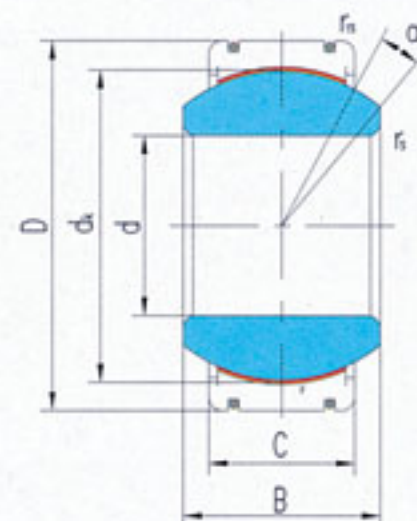


滑动摩擦副: 不锈钢 / PTFE 编织物

Sliding contact surfaces: Stainless steel / PTFE fabric

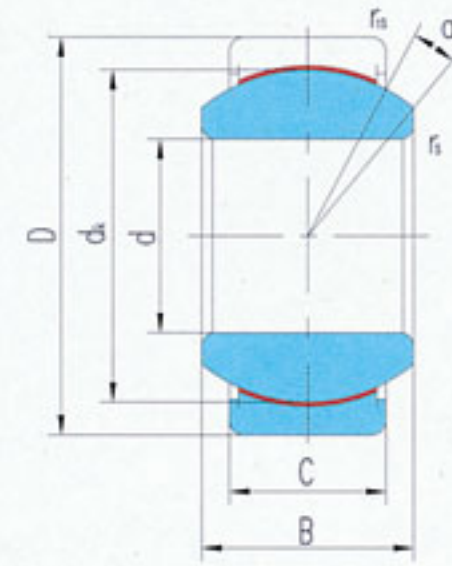


GE...XT/X



GE...XT-2RS/X

轴承型号 Bearing number		外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
		mm								kN		
d	D	B	C	dk	rs min	rls min	α° ≈	动载荷 Dynamic	静载荷 Static			
GE70XT/X	GE70XT-2RS/X	70	105	49	40	92	1	1	6	550	1100	1.55
GE80XT/X	GE80XT-2RS/X	80	120	55	45	105	1	1	6	705	1410	2.31
GE90XT/X	GE90XT-2RS/X	90	130	60	50	115	1	1	5	860	1720	2.75
GE100XT/X	GE100XT-2RS/X	100	150	70	55	130	1	1	7	1070	2140	4.45
GE110XT/X	GE110XT-2RS/X	110	160	70	55	140	1	1	6	1150	2300	4.82
GE120XT/X	GE120XT-2RS/X	120	180	85	70	160	1	1	6	1680	3360	8.05
GE140XT/X	GE140XT-2RS/X	140	210	90	70	180	1	1	7	1890	3780	11.02
GE160XT/X	GE160XT-2RS/X	160	230	105	80	200	1	1	8	2400	4800	14.01
GE180XT/X	GE180XT-2RS/X	180	260	105	80	225	1.1	1.1	6	2700	5400	18.65
GE200XT/X	GE200XT-2RS/X	200	290	130	100	250	1.1	1.1	7	3750	7500	28.03



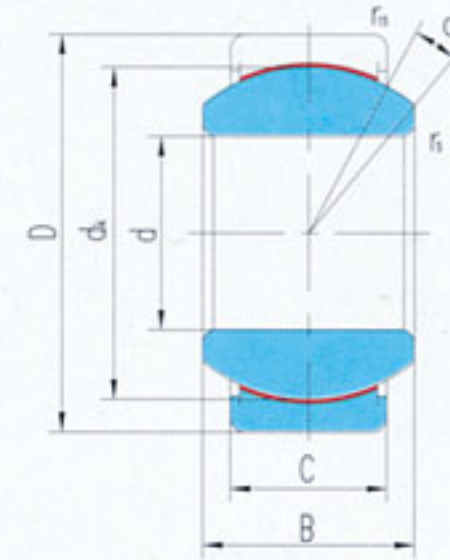
滑动摩擦副: 钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric

轴承 型号 Bearing number	外形尺寸 Dimensions mm/inch								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEZ19ET-2RS	19.050	31.750	16.662	14.275	27.5	0.3	0.6	6	50	100	0.053
	0.75	1.25	0.656	0.562	1.081	0.012	0.024				
GEZ22ET-2RS	22.225	36.513	19.431	16.662	32	0.3	0.6	6	69	138	0.085
	0.875	1.4375	0.756	0.656	1.258	0.012	0.024				
GEZ25ET-2RS	25.400	41.275	22.225	19.050	36.5	0.3	0.6	6	104	208	0.121
	1	1.625	0.875	0.75	1.437	0.012	0.024				
GEZ31ET-2RS	31.750	50.800	27.762	23.800	45.5	0.6	0.6	6	160	320	0.23
	1.25	2	1.093	0.937	1.788	0.024	0.024				
GEZ34ET-2RS	34.925	55.563	30.150	26.187	49	0.6	1	6	190	380	0.35
	1.375	2.1875	1.187	1.031	1.926	0.024	0.04				
GEZ38ET-2RS	38.100	61.913	33.325	28.575	54.7	0.6	1	6	235	470	0.42
	1.5	2.4375	1.312	1.125	2.154	0.024	0.04				
GEZ44ET-2RS	44.450	71.438	38.887	33.325	63.9	0.6	1	6	320	640	0.64
	1.75	2.8125	1.531	1.312	2.511	0.024	0.04				
GEZ50ET-2RS	50.800	80.963	44.450	38.100	73	0.6	1	6	415	830	0.93
	2	3.1875	1.75	1.5	2.869	0.024	0.04				
GEZ57ET-2RS	57.150	90.488	50.013	42.850	82	0.6	1	6	525	1050	1.3
	2.25	3.5625	1.969	1.687	3.223	0.024	0.04				
GEZ63ET-2RS	63.500	100.013	55.550	47.625	92	1	1	6	655	1310	1.85
	2.5	3.9375	2.187	1.875	3.616	0.04	0.04				
GEZ69ET-2RS	69.850	111.125	61.112	52.375	100	1	1	6	785	1570	2.4
	2.75	4.375	2.406	2.062	3.937	0.04	0.04				
GEZ76ET-2RS	76.200	120.650	66.675	57.150	109.5	1	1	6	935	1870	3.1
	3	4.75	2.625	2.25	4.303	0.04	0.04				
GEZ82ET-2RS	82.550	130.175	72.238	61.900	119	1	1	6	1100	2200	3.8
	3.25	5.125	2.844	2.437	4.685	0.04	0.04				
GEZ88ET-2RS	88.900	139.700	77.775	66.675	128	1	1	6	1280	2560	4.8
	3.5	5.5	3.062	2.625	5.04	0.04	0.04				
GEZ95ET-2RS	95.250	149.225	83.337	71.425	137	1	1	6	1460	2920	5.8
	3.75	5.875	3.281	2.812	5.393	0.04	0.04				
GEZ101ET-2RS	101.600	158.750	88.900	76.200	146	1	1	6	1660	3320	7
	4	6.25	3.5	3	5.748	0.04	0.04				

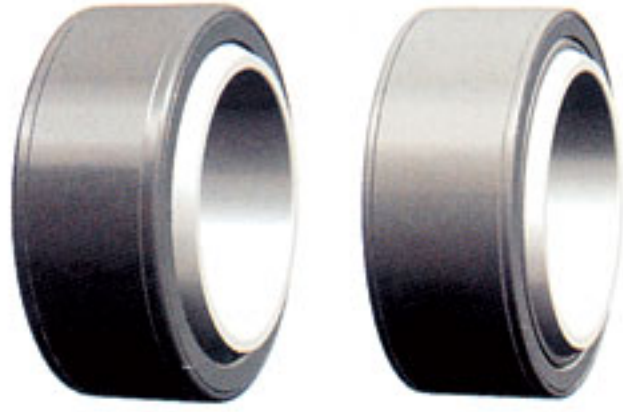


向心关节轴承 Radial Spherical Plain Bearings



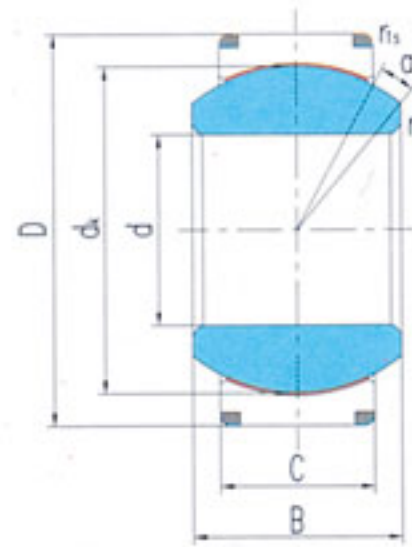
滑动摩擦副：钢 / PTFE 编织物
Sliding contact surfaces: Steel / PTFE fabric

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	mm/inch								动载荷 Dynamic	静载荷 Static	
	d	D	B	C	dk	rs min	r1s min	α° ≈			
GEZ107ET-2RS	107.950	168.275	94.463	80.950	155	1	1	6	1880	3760	8.41
	4.25	6.625	3.719	3.187	6.102	0.04	0.04				
GEZ114ET-2RS	114.300	177.800	100.013	85.725	164.5	1	1	6	2110	4220	9.8
	4.5	7	3.937	3.375	6.476	0.04	0.04				
GEZ120ET-2RS	120.650	187.325	105.562	90.475	173.5	1	1	6	2350	4700	11.5
	4.75	7.375	4.156	3.562	6.83	0.04	0.04				
GEZ127ET-2RS	127.000	196.850	111.125	95.250	183	1	1	6	2610	5220	13.5
	5	7.75	4.375	3.75	7.204	0.04	0.04				
GEZ152ET-2RS	152.400	222.250	120.65	104.775	207	1	1	5	3250	6500	17.5
	6	8.75	4.75	4.125	8.15	0.04	0.04				

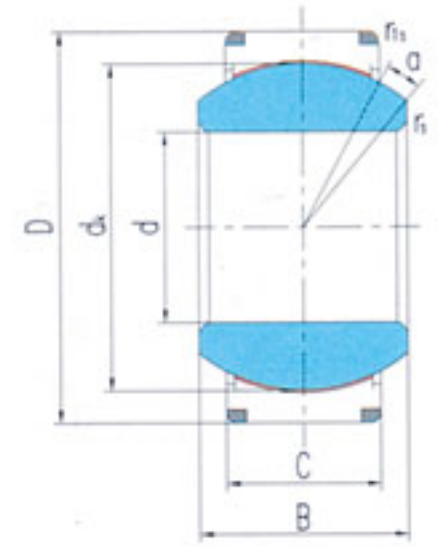


滑动摩擦副: 钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric



GEC...XT



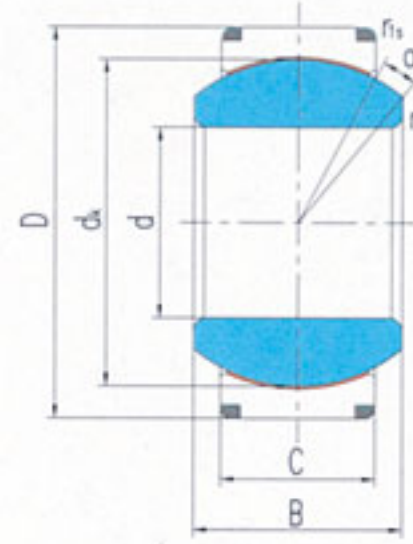
GEC...XT-2RS

轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r_s min	r_{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static		
GEC320XT	GEC320XT-2RS	320	440	160	135	380	1.1	3	4	9230	13850	78
GEC340XT	GEC340XT-2RS	340	460	160	135	400	1.1	3	3	9720	14580	83
GEC360XT	GEC360XT-2RS	360	480	160	135	420	1.1	3	3	10200	15300	87
GEC380XT	GEC380XT-2RS	380	520	190	160	450	1.5	4	4	12960	19440	129
GEC400XT	GEC400XT-2RS	400	540	190	160	470	1.5	4	3	13530	20300	135
GEC420XT	GEC420XT-2RS	420	560	190	160	490	1.5	4	3	14110	21160	141
GEC440XT	GEC440XT-2RS	440	600	218	185	520	1.5	4	3	17310	25970	196
GEC460XT	GEC460XT-2RS	460	620	218	185	540	1.5	4	3	17980	26970	204

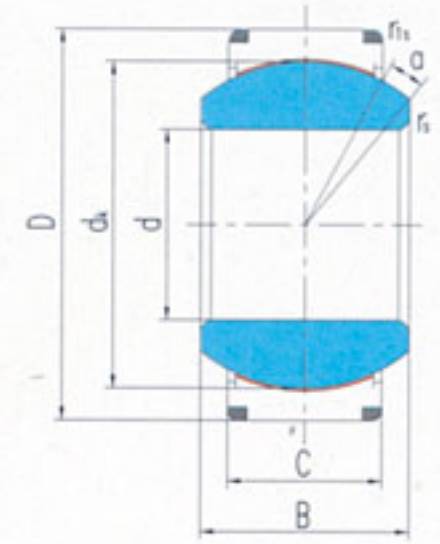


滑动摩擦副：钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric

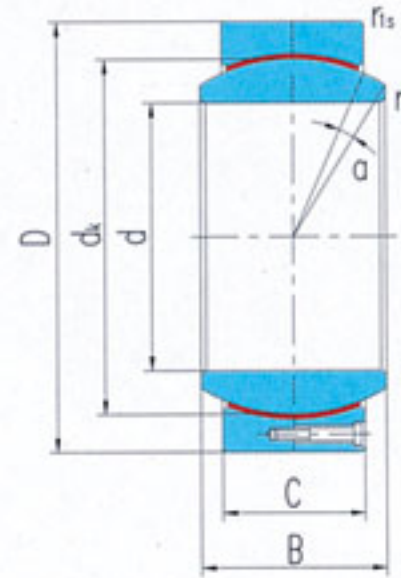


GEH...XT



GEH...XT-2RS

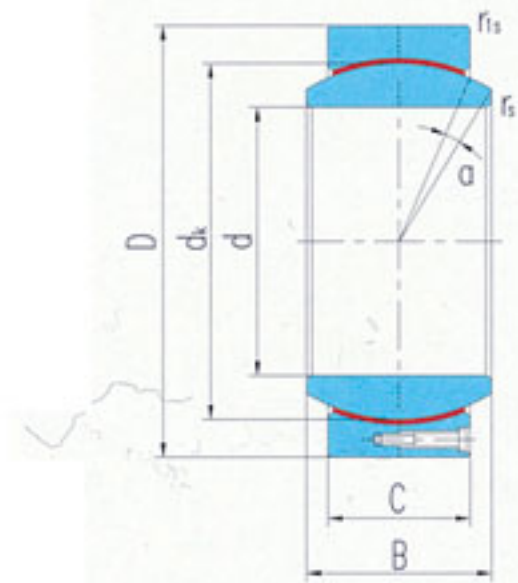
轴承 型号 Bearing number		外形尺寸 Dimensions mm								额定载荷 Load ratings kN		重量 Weight ≈kg
		d	D	B	C	dk	rs min	rs min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEH100XT	GEH100XT-2RS	100	150	71	67	135	1	1	2	1350	2700	5.24
GEH110XT	GEH110XT-2RS	110	160	78	74	145	1	1	2	1600	3200	6.23
GEH120XT	GEH120XT-2RS	120	180	85	80	160	1	1	2	1920	3840	9.01
GEH140XT	GEH140XT-2RS	140	210	100	95	185	1	1	2	2630	5260	14.5
GEH160XT	GEH160XT-2RS	160	230	115	109	210	1	1	2	3430	6860	18.6
GEH180XT	GEH180XT-2RS	180	260	128	122	240	1.1	1.1	2	4390	8780	26.8
GEH200XT	GEH200XT-2RS	200	290	140	134	260	1.1	1.1	2	5220	10440	36.7
GEH220XT	GEH220XT-2RS	220	320	155	148	290	1.1	1.1	2	6430	12860	49.8
GEH240XT	GEH240XT-2RS	240	340	170	162	310	1.1	1.1	2	7530	15060	58.5
GEH260XT	GEH260XT-2RS	260	370	185	175	340	1.1	1.1	2	8920	17840	75.7
GEH280XT	GEH280XT-2RS	280	400	200	190	370	1.1	1.1	2	10540	21080	96.8
GEH300XT	GEH300XT-2RS	300	430	212	200	390	1.1	1.1	2	11700	23400	118
GEH320XT	GEH320XT-2RS	320	460	230	218	414	1.1	3	2	16240	24360	148
GEH340XT	GEH340XT-2RS	340	480	243	230	434	1.1	3	2	17960	26940	163
GEH360XT	GEH360XT-2RS	360	520	258	243	474	1.1	4	2	20730	31090	213
GEH380XT	GEH380XT-2RS	380	540	272	258	494	1.5	4	2	22940	34410	236
GEH400XT	GEH400XT-2RS	400	580	280	265	514	1.5	4	2	24510	36760	290
GEH420XT	GEH420XT-2RS	420	600	300	280	534	1.5	4	2	26910	40360	319



滑动摩擦副：钢 / PTFE 编织物

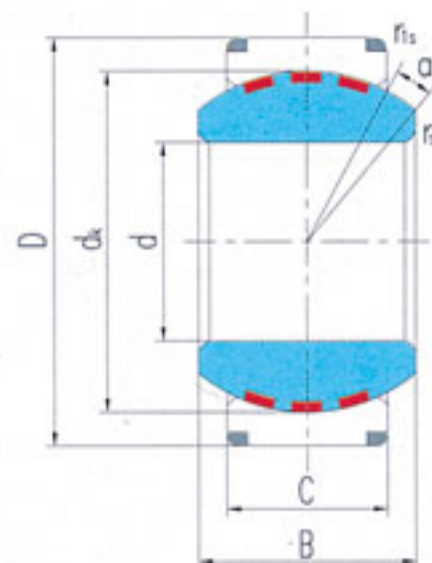
Sliding contact surfaces: Steel / PTFE fabric

轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	r _s min	r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEC320HT	320	440	160	135	380	1.1	3	4	7380	11070	78
GEC340HT	340	460	160	135	400	1.1	3	3	7770	11650	83
GEC360HT	360	480	160	135	420	1.1	3	3	8160	12240	87
GEC380HT	380	520	190	160	450	1.5	4	4	10360	15540	129
GEC400HT	400	540	190	160	470	1.5	4	3	10820	16230	135
GEC420HT	420	560	190	160	490	1.5	4	3	11280	16920	141
GEC440HT	440	600	218	185	520	1.5	4	3	13850	20770	196
GEC460HT	460	620	218	185	540	1.5	4	3	14380	21570	204
GEC480HT	480	650	230	195	565	2	5	3	15860	23790	239
GEC500HT	500	670	230	195	585	2	5	3	16420	24630	248
GEC530HT	530	710	243	205	620	2	5	3	18300	27450	294
GEC560HT	560	750	258	215	655	2	5	4	20270	30410	345
GEC600HT	600	800	272	230	700	2	5	3	23180	34770	413



滑动摩擦副: 钢 / PTFE 编织物
Sliding contact surfaces: Steel / PTFE fabric

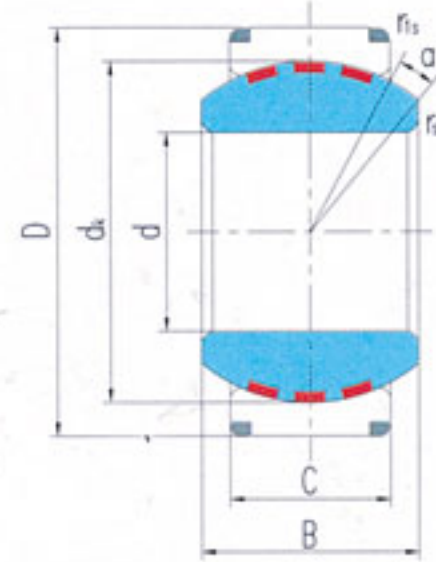
轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	rs min	r1s min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEH100HT	100	150	71	67	135	1	1	2	1080	2160	5.24
GEH110HT	110	160	78	74	145	1	1	2	1280	2560	6.23
GEH120HT	120	180	85	80	160	1	1	2	1530	3060	9.01
GEH140HT	140	210	100	95	185	1	1	2	2100	4200	14.5
GEH160HT	160	230	115	109	210	1	1	2	2740	5480	18.6
GEH180HT	180	260	128	122	240	1.1	1.1	2	3510	7020	26.8
GEH200HT	200	290	140	134	260	1.1	1.1	2	4180	8360	36.7
GEH220HT	220	320	155	148	290	1.1	1.1	2	5150	10300	49.8
GEH240HT	240	340	170	162	310	1.1	1.1	2	6020	12040	58.5
GEH260HT	260	370	185	175	340	1.1	1.1	2	7140	14280	75.7
GEH280HT	280	400	200	190	370	1.1	1.1	2	8430	16860	96.8
GEH300HT	300	430	212	200	390	1.1	1.1	2	9360	18720	118
GEH320HT	320	460	230	218	414	1.1	3	2	12990	19480	148
GEH340HT	340	480	243	230	434	1.1	3	2	14370	21550	163
GEH360HT	360	520	258	243	474	1.1	4	2	16580	24870	213
GEH380HT	380	540	272	258	494	1.5	4	2	18350	27520	236
GEH400HT	400	580	280	265	514	1.5	4	2	19610	29410	290
GEH420HT	420	600	300	280	534	1.5	4	2	21530	32290	319
GEH440HT	440	630	315	300	574	1.5	4	2	24790	37180	379
GEH460HT	460	650	325	308	593	1.5	4	2	26300	39450	404
GEH480HT	480	680	340	320	623	2	5	2	28700	43050	463
GEH500HT	500	710	355	335	643	2	5	2	31000	46500	529
GEH530HT	530	750	375	355	673	2	5	2	34400	51600	620
GEH560HT	560	800	400	380	723	2	5	2	39560	59340	770
GEH600HT	600	850	425	400	773	2	6	2	44520	66780	903
GEH630HT	630	900	450	425	813	3	6	2	49750	74620	1092



滑动摩擦副：钢 / 铜合金

Sliding contact surfaces: Steel / Copper alloy

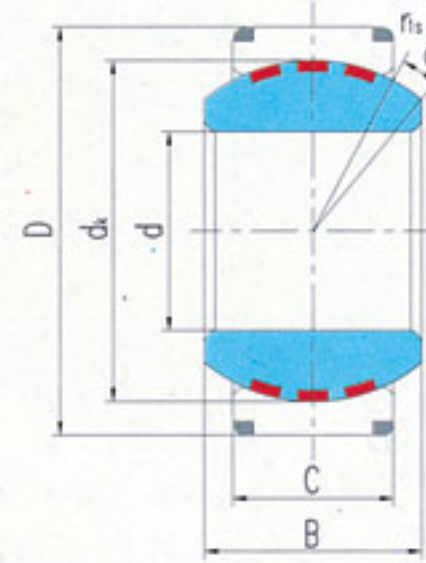
轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	d _k	r _s min	r _{ts} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GE100XF/Q	100	150	70	55	130	1	1	7	710	1070	4.36
GE110XF/Q	110	160	70	55	140	1	1	6	770	1150	4.74
GE120XF/Q	120	180	85	70	160	1	1	6	1120	1680	7.94
GE140XF/Q	140	210	90	70	180	1	1	7	1260	1890	11
GE160XF/Q	160	230	105	80	200	1	1	8	1600	2400	13.9
GE180XF/Q	180	260	105	80	225	1.1	1.1	6	1800	2700	18.2
GE200XF/Q	200	290	130	100	250	1.1	1.1	7	2500	3750	28
GE220XF/Q	220	320	135	100	275	1.1	1.1	8	2750	4120	35
GE240XF/Q	240	340	140	100	300	1.1	1.1	8	3000	4500	38.7
GE260XF/Q	260	370	150	110	325	1.1	1.1	7	3570	5360	50.3
GE280XF/Q	280	400	155	120	350	1.1	1.1	6	4200	6300	63.5
GE300XF/Q	300	430	165	120	375	1.1	1.1	7	4500	6750	75.8



滑动摩擦副：钢 / 铜合金

Sliding contact surfaces: Steel / Copper alloy

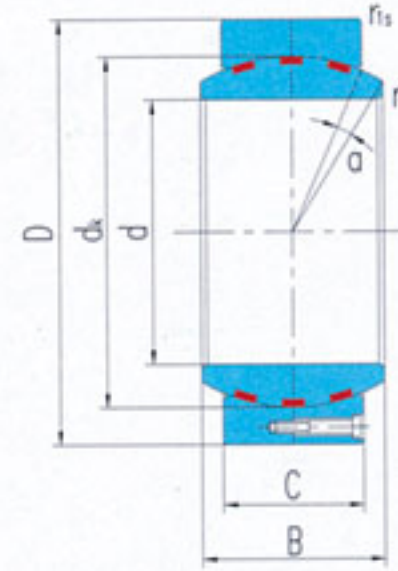
轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	r_s min	r_{ls} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEC320XF/Q	320	440	160	135	380	1.1	3	4	5130	7690	76.7
GEC340XF/Q	340	460	160	135	400	1.1	3	3	5400	8100	80.9
GEC360XF/Q	360	480	160	135	420	1.1	3	3	5670	8500	85.1
GEC380XF/Q	380	520	190	160	450	1.5	4	4	7200	10800	125
GEC400XF/Q	400	540	190	160	470	1.5	4	3	7520	11280	131
GEC420XF/Q	420	560	190	160	490	1.5	4	3	7840	11760	137
GEC440XF/Q	440	600	218	185	520	1.5	4	3	9620	14430	191
GEC460XF/Q	460	620	218	185	540	1.5	4	3	9990	14980	199



滑动摩擦副：钢 / 铜合金

Sliding contact surfaces: Steel / Copper alloy

轴承型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings		重量 Weight ≈kg
	d	D	B	C	dk	r_s min	r_{ls} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEH100XF/Q	100	150	71	67	135	1	1	2	900	1350	5.06
GEH110XF/Q	110	160	78	74	145	1	1	2	1070	1600	6.00
GEH120XF/Q	120	180	85	80	160	1	1	2	1280	1920	8.71
GEH140XF/Q	140	210	100	95	185	1	1	2	1750	2630	14.0
GEH160XF/Q	160	230	115	109	210	1	1	2	2280	3430	17.9
GEH180XF/Q	180	260	128	122	240	1.1	1.1	2	2920	4390	25.8
GEH200XF/Q	200	290	140	134	260	1.1	1.1	2	3480	5220	35.6
GEH220XF/Q	220	320	155	148	290	1.1	1.1	2	4290	6430	48.1
GEH240XF/Q	240	340	170	162	310	1.1	1.1	2	5020	7530	56.5
GEH260XF/Q	260	370	185	175	340	1.1	1.1	2	5950	8920	73.0
GEH280XF/Q	280	400	200	190	370	1.1	1.1	2	7030	10540	93.2
GEH300XF/Q	300	430	212	200	390	1.1	1.1	2	7800	11700	114
GEH320XF/Q	320	460	230	218	414	1.1	3	2	9020	13530	143
GEH340XF/Q	340	480	243	230	434	1.1	3	2	9980	14970	158
GEH360XF/Q	360	520	258	243	474	1.1	4	2	11510	17270	206
GEH380XF/Q	380	540	272	258	494	1.5	4	2	12740	19110	228
GEH400XF/Q	400	580	280	265	514	1.5	4	2	13620	20430	281
GEH420XF/Q	420	600	300	280	534	1.5	4	2	14950	22420	310



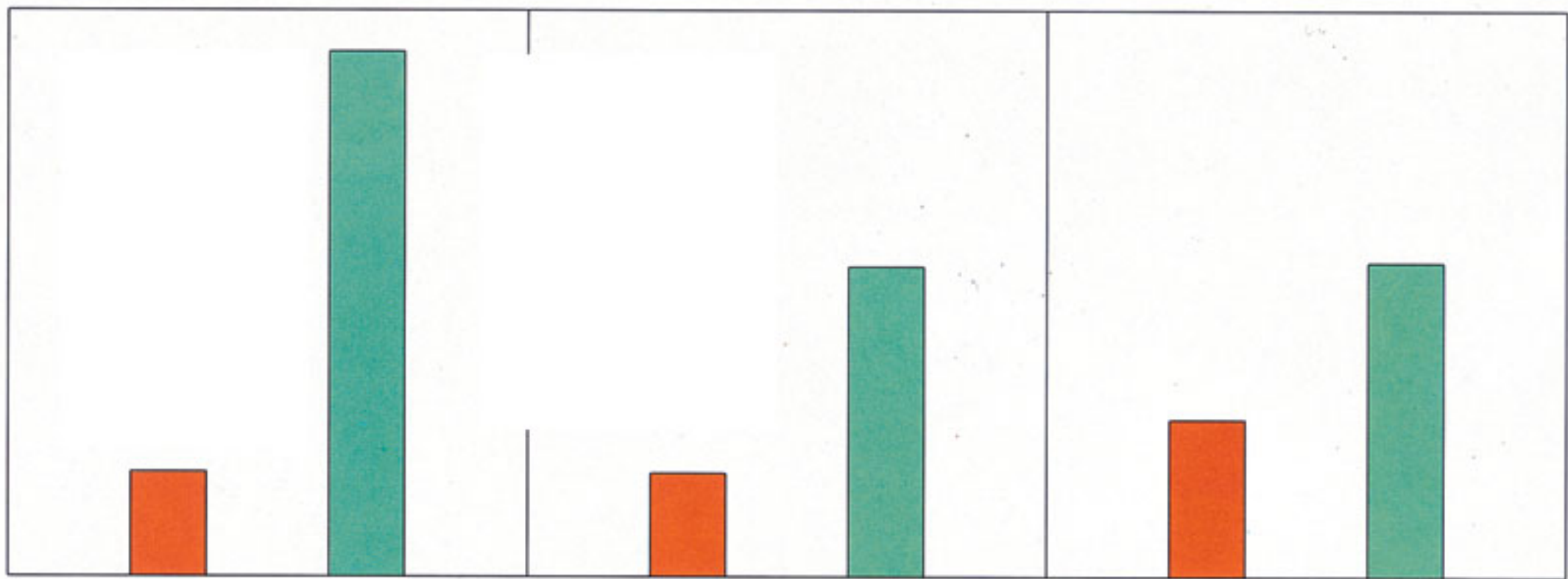
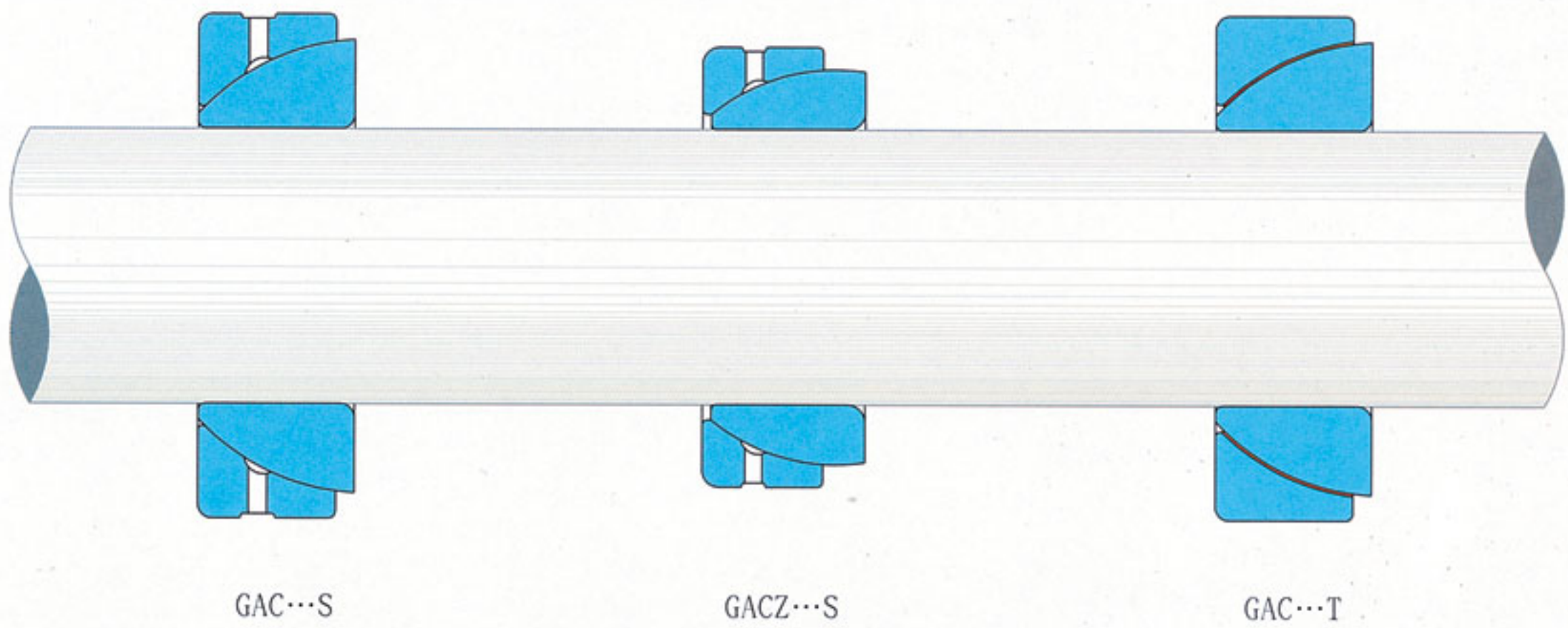
滑动摩擦副：钢 / 铜合金

Sliding contact surfaces: Steel / Copper alloy

轴承 型号 Bearing number	外形尺寸 Dimensions								额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	dk	r_s min	r_{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GEH440HF/Q	440	630	315	300	574	1.5	4	2	13750	20650	366
GEH460HF/Q	460	650	325	308	593	1.5	5	2	14600	21900	390
GEH480HF/Q	480	680	340	320	623	2	5	2	15900	23900	446
GEH500HF/Q	500	710	355	335	643	2	5	2	17200	25800	512
GEH530HF/Q	530	750	375	355	673	2	5	2	19100	28650	601
GEH560HF/Q	560	800	400	380	723	2	5	2	21950	32950	745
GEH600HF/Q	600	850	425	400	773	2	6	2	24700	37100	872
GEH630HF/Q	630	900	450	425	813	3	6	2	27600	41400	1056

角接触关节轴承

Angular contact spherical plain bearings



■ 动载荷 Dynamic load rating
■ 静载荷 Static load rating

角接触关节轴承的球面倾斜于轴承内径中心线，适合于承受径向和轴向的联合载荷，单套安装的角接触关节轴承只能承受单一方向的轴向载荷。当角接触关节轴承承受径向载荷时，会产生轴向分载荷。角接触关节轴承通常成对安装以形成一套可调游隙的向心关节轴承，这样就可以承受两个方向的轴向载荷。LS角接触关节轴承的滑动摩擦副可由不同材料组成，主要有两种：钢对钢角接触关节轴承和自润滑角接触关节轴承。

LS 钢对钢角接触关节轴承经过淬火，磷化和涂敷二硫化钼，具有耐磨损、抗腐蚀的特点。在正常情况下，周期性润滑是必须的。为了确保有效的润滑，外圈有润滑油槽油孔。由于滑动表面具有很高的强度，这种轴承特别适合于承受交变重载、冲击载荷和静态重载。

LS 自润滑角接触关节轴承滑动摩擦副是钢对 PTFE 编织物，这种轴承具有较低的摩擦系数，工作中不需维护，一般情况下润滑都会降低轴承的使用寿命。它们应用于需要较长使用寿命或工作中无法润滑的机械机构中，适合于承受恒定方向重载。

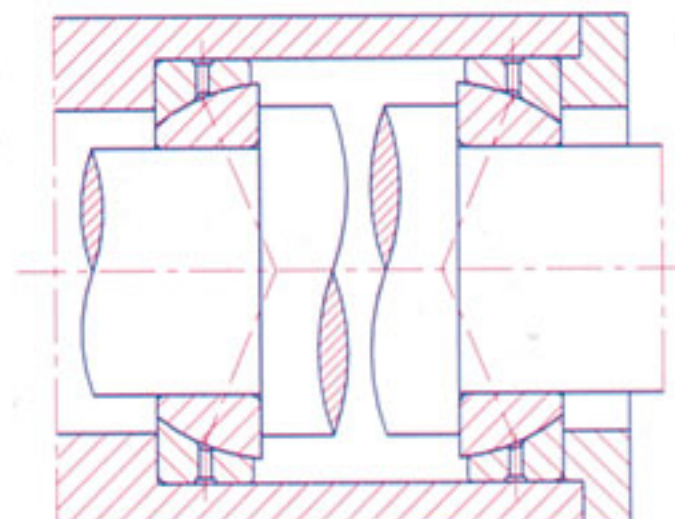
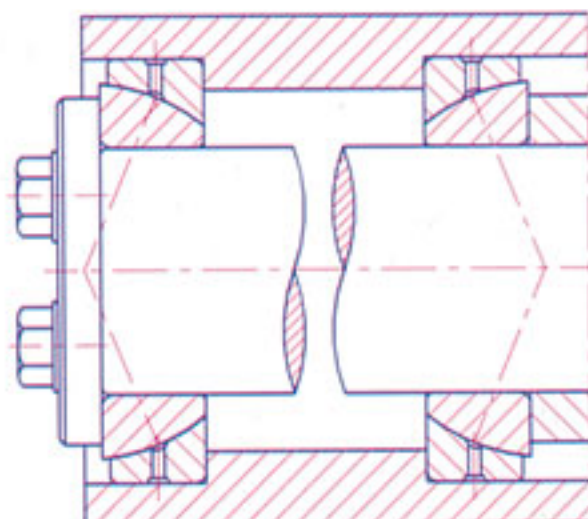
产品特点

LS 钢对钢角接触关节轴承内、外圈材料均为轴承钢，淬火，磷化，具有耐磨损、抗腐蚀的特点，滑动表面涂敷二硫化钼。外圈有润滑油槽油孔，内球面有两条交叉润滑槽。

LS 自润滑角接触关节轴承内、外圈材料均为轴承钢，淬火，内圈外球面镀铬。

使用温度范围：钢对钢 $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ ，钢对PTFE编织物 $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ 。在较高温度下，轴承的使用寿命会降低。

其它说明请参考 P12~15



The sphered sliding contact surfaces of angular contact spherical plain bearings are inclined at an angle to the bearing axis. They are therefore particularly suitable for carrying combined (radial and axial) loads. A single angular contact spherical plain bearing can only accept axial loads acting in one direction. Under radial loads, a force acting in the axial direction is produced in the bearing which must always be opposed by an equal force acting in the opposite direction. Therefore, the bearings are usually adjusted against a second bearing. When two angular contact spherical plain bearings are arranged so that their sphere centres coincide, a clearance-free radial spherical plain bearing is obtained which can accommodate heavy radial loads as well as heavy axial loads in both directions. LS angular contact spherical plain bearings are available with different sliding contact surface combinations, i.e. the sliding surfaces of inner and outer rings are made from different materials. There are two main groups: steel-on-steel angular contact spherical plain bearings and maintenance-free angular contact spherical plain bearings.

LS steel-on-steel angular contact spherical plain bearings are made of carbon chromium steel and are hardened and phosphated, it has characteristics of wear-resistance and wear-corrosion. The inner and outer rings sliding contact surface are treated with molybdenum disulphide. Bearings with this sliding contact surface combination require regular relubrication. To facilitate efficient lubrication, outer ring has an annular groove and two lubrication holes. The high strength of the sliding surfaces makes these bearings especially suitable for bearing arrangements where heavy loads of alternating direction, shock loads or heavy static loads have to be accommodated.

LS maintenance-free angular contact spherical plain bearings have sliding contact surface combinations steel-on-PTFE fabric, they have very low friction and can be operated without maintenance, any lubrication of the sliding contact surfaces will shorten bearing life. They are used for applications where long bearing lives are required without maintenance, or where operating conditions, such as inadequate lubrication or the absence of lubrication make the use of steel-on-steel bearing inadvisable. The maintenance-free bearings are primarily intended for applications where loads are heavy and have a constant direction.

Design characteristics

LS steel-on-steel angular contact spherical plain bearings are made of carbon chromium steel and are hardened and phosphated. The inner and outer ring sliding contact surface are treated with molybdenum disulphide. Outer ring has an annular groove and two lubrication holes and sliding contact surface of outer ring has two cross grooves.

LS maintenance-free angular contact spherical plain bearings are made of carbon chromium steel and are hardened, sliding surface of inner ring treated with chromium plating.

Permissible operating temperature range : LS steel-on-steel and steel-on-PTFE fabric angular contact spherical plain bearings can be used at temperature $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$. At higher temperature, the load carrying capacity will be reduced.

Other explanation see page 12~15



角接触关节轴承公差

Tolerances for angular contact spherical plain bearings

内圈和轴承宽度 Inner ring and width of bearing

d mm		Δdmp μm		Vdp μm	$Vdmp$ μm	ΔBs μm		ΔTs μm	
超过 over	到 incl.	max	min	max	max	max	min	max	min
—	50	0	-12	12	9	0	-240	+250	-400
50	80	0	-15	15	11	0	-300	+250	-500
80	120	0	-20	20	15	0	-400	+250	-600
120	180	0	-25	25	19	0	-500	+350	-700
180	200	0	-30	30	23	0	-600	+350	-800

外圈 Outer ring

D mm		ΔDmp μm		VDp μm	$VDmp$ μm	ΔCs μm	
超过 over	到 incl.	max	min	max	max	max	min
—	50	0	-14	14	11	0	-240
50	80	0	-16	16	12	0	-300
80	120	0	-18	18	14	0	-400
120	150	0	-20	20	15	0	-500
150	180	0	-25	25	19	0	-500
180	250	0	-30	30	23	0	-600
250	315	0	-35	35	26	0	-700

尺寸和公差符号说明详见 P17 Details of dimension and tolerance symbols see page 17

角接触关节轴承配合

Fits of angular contact spherical plain bearings

轴配合 Shaft fits

工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
各种载荷 过盈配合 Loads of all kinds, interference fit	m6	m6

支承座配合 Housing fits

工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
各种载荷 过盈配合 Loads of all kinds, interference fit	M7	M7
各种载荷 可轴向移动 Loads of all kinds, can generally be displaced axially	J7	J7

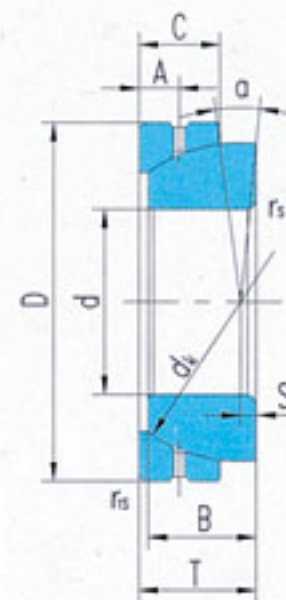
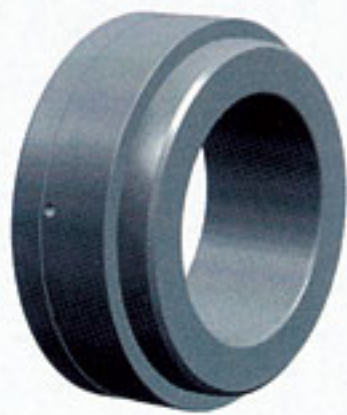
轴径公差 Shaft diameter tolerances

轴径 Shaft diameter mm		轴径公差 Shaft diameter tolerances μm	
		m6	
超过 over	到 incl.	high	low
—	30	+21	+8
30	50	+25	+9
50	80	+30	+11
80	120	+35	+13
120	180	+40	+15
180	250	+46	+17

支承座孔公差 Housing bore tolerances

支承座孔径 Housing bore diameter		支承座孔公差 Housing bore tolerances			
mm		J7		M7	
超过 over	到 incl.	low	high	low	high
—	50	-11	+14	-25	0
50	80	-12	+18	-30	0
80	120	-13	+22	-35	0
120	150	-14	+26	-40	0
150	180	-14	+26	-40	0
180	250	-16	+30	-46	0
250	315	-16	+36	-52	0

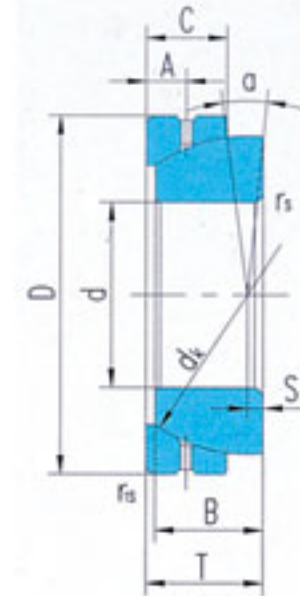




滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

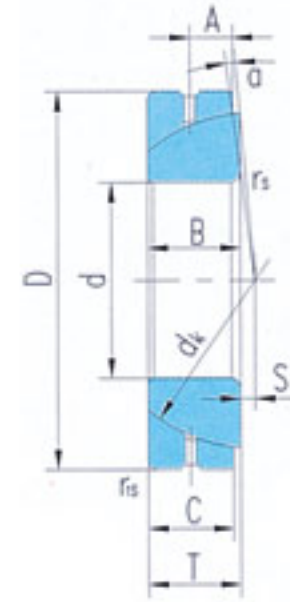
轴承 型号 Bearing number	外形尺寸 Dimensions										额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	T	d _k	S	A	r _s , r _{1s} max	α° ≈	动载荷 Dynamic	静载荷 Static	
GACZ12S	12.7	22.225	6.86	4.83	7.62	18.26	1.3	2.39	0.51	7	6	18	0.013
	0.5	0.875	0.27	0.19	0.3	0.719	0.051	0.094	0.02				
GACZ15S	15.875	26.988	8.64	6.35	9.40	22.83	1.48	2.77	0.76	6	10	31	0.025
	0.625	1.0625	0.34	0.25	0.37	0.899	0.058	0.109	0.03				
GACZ19S	19.05	31.75	10.41	7.87	11.18	27.43	1.79	3.18	1	6	16	47	0.038
	0.75	1.25	0.41	0.31	0.44	1.08	0.07	0.125	0.04				
GACZ22S	22.225	36.512	12.19	9.65	13.21	31.95	2.02	4.37	2	5.5	22	66	0.049
	0.875	1.4375	0.48	0.38	0.52	1.258	0.08	0.172	0.08				
GACZ25S	25.4	41.275	13.97	11.18	15.24	36.50	2.54	5.16	2	6	29	87	0.085
	1	1.625	0.55	0.44	0.6	1.437	0.1	0.203	0.08				
GACZ31S	31.75	50.8	17.78	13.97	18.80	45.59	3.36	5.94	2	6	47	142	0.159
	1.25	2	0.7	0.55	0.74	1.795	0.132	0.234	0.08				
GACZ34S	34.925	55.562	19.56	15.24	21.34	49.20	3.69	7.14	2.54	4	53	159	0.213
	1.375	2.1875	0.77	0.6	0.84	1.937	0.145	0.281	0.1				
GACZ38S	38.1	61.912	21.34	16.76	23.11	54.74	3.93	7.92	2.54	5.5	66	197	0.301
	1.5	2.4375	0.84	0.66	0.91	2.155	0.155	0.312	0.1				
GACZ44S	44.45	71.438	24.89	20.07	27.18	63.88	4.72	8.33	2.54	6	91	273	0.458
	1.75	2.8125	0.98	0.79	1.07	2.515	0.186	0.328	0.1				
GACZ50S	50.8	80.962	28.70	23.37	31.24	73.02	5.51	9.52	3.56	5.5	122	365	0.671
	2	3.1875	1.13	0.92	1.23	2.875	0.217	0.375	0.14				
GACZ57S	57.15	90.488	32.26	26.67	35.31	82.17	6.18	11.51	3.56	5.5	155	466	0.948
	2.25	3.5625	1.27	1.05	1.39	3.235	0.243	0.453	0.14				
GACZ63S	63.5	100.013	36.07	29.97	39.12	91.19	6.79	12.7	3.56	5	196	589	1.13
	2.5	3.9375	1.42	1.18	1.54	3.59	0.267	0.5	0.14				
GACZ69S	69.85	111.125	39.62	32.38	43.18	100.33	7.46	13.08	4.6	5	231	694	1.75
	2.75	4.375	1.56	1.275	1.7	3.95	0.294	0.515	0.18				
GACZ76S	76.2	120.65	43.43	35.69	47.24	109.52	8.17	14.68	4.6	5	279	838	2.28
	3	4.75	1.71	1.405	1.86	4.312	0.322	0.578	0.18				
GACZ82S	82.55	130.175	47.24	39.24	51.56	118.74	9.04	16.66	4.6	5	332	995	2.89
	3.25	5.125	1.86	1.545	2.03	4.675	0.356	0.656	0.18				



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

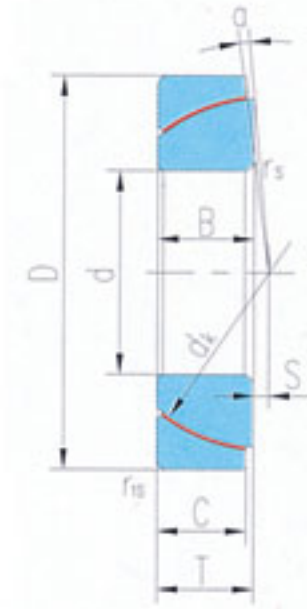
轴承 型号 Bearing number	外形尺寸 Dimensions										额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	T	d _k	S	A	r _s , r _{1s} max	α° ≈	动载荷 Dynamic	静载荷 Static	
GACZ88S	88.9	139.7	50.80	42.54	55.37	128.02	9.51	17.86	4.6	5	389	1167	3.57
	3.5	5.5	2	1.675	2.18	5.04	0.374	0.703	0.18				
GACZ95S	95.25	149.225	54.61	45.85	59.44	136.91	10.1	19.43	4.6	4.5	449	1348	4.35
	3.75	5.875	2.15	1.805	2.34	5.39	0.398	0.765	0.18				
GACZ101S	101.6	158.75	58.42	49.15	63.50	146.05	10.4	19.84	4.6	4.5	515	1545	5.26
	4	6.25	2.3	1.935	2.5	5.75	0.409	0.781	0.18				
GACZ114S	114.3	177.8	65.79	55.75	71.12	164.46	12.4	22.22	4.6	4.5	663	1990	7.76
	4.5	7	2.59	2.195	2.8	6.475	0.488	0.875	0.18				
GACZ127S	127	196.85	73.15	62.36	79.50	182.63	13.9	25.4	4.6	4.5	818	2455	11.07
	5	7.75	2.88	2.455	3.13	7.19	0.547	1	0.18				
GACZ152S	152.4	222.25	78.74	66.42	85.72	207.16	16.1	34.8	4.6	4.5	985	2955	17.37
	6	8.75	3.1	2.615	3.375	8.156	0.634	1.37	0.18				



滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions mm										额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	T	d _k	S	A	r _s , r _{ls} min	α° ≈	动载荷 Dynamic	静载荷 Static	
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	.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

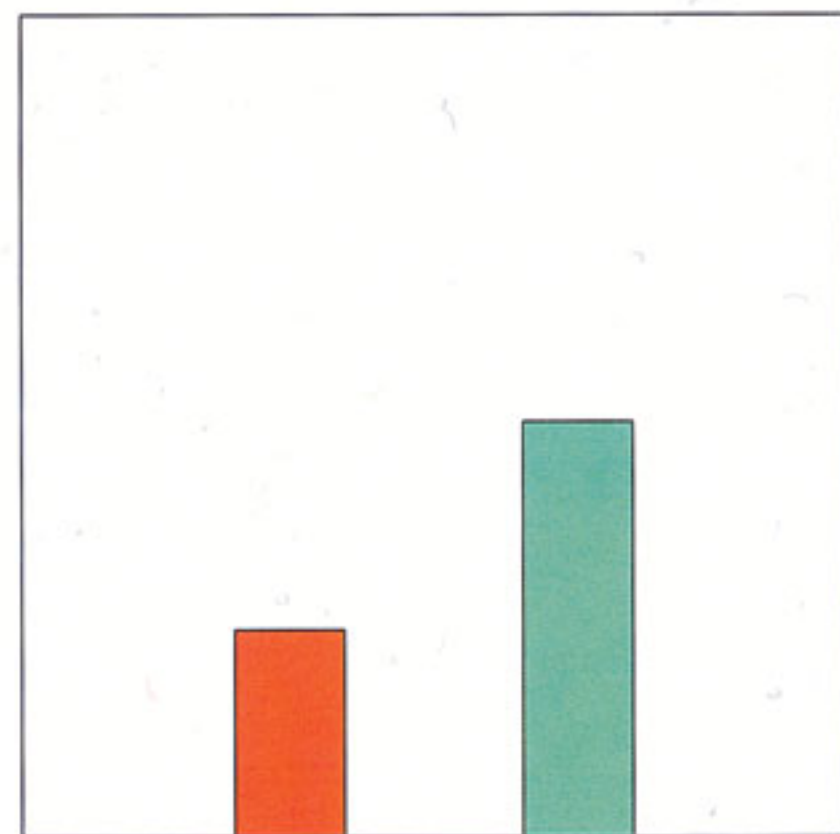
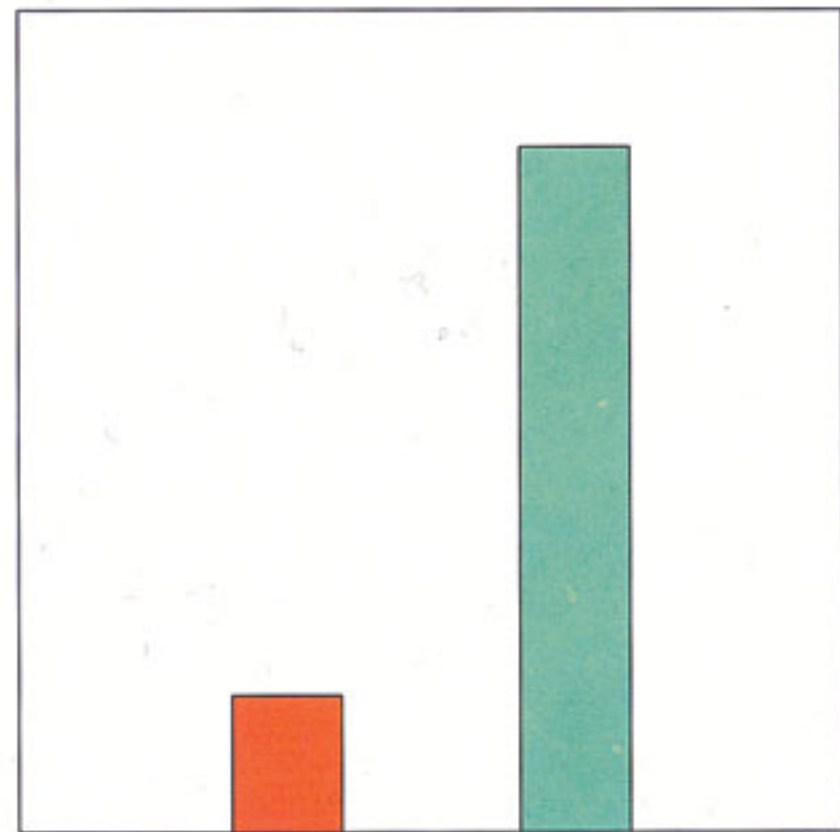
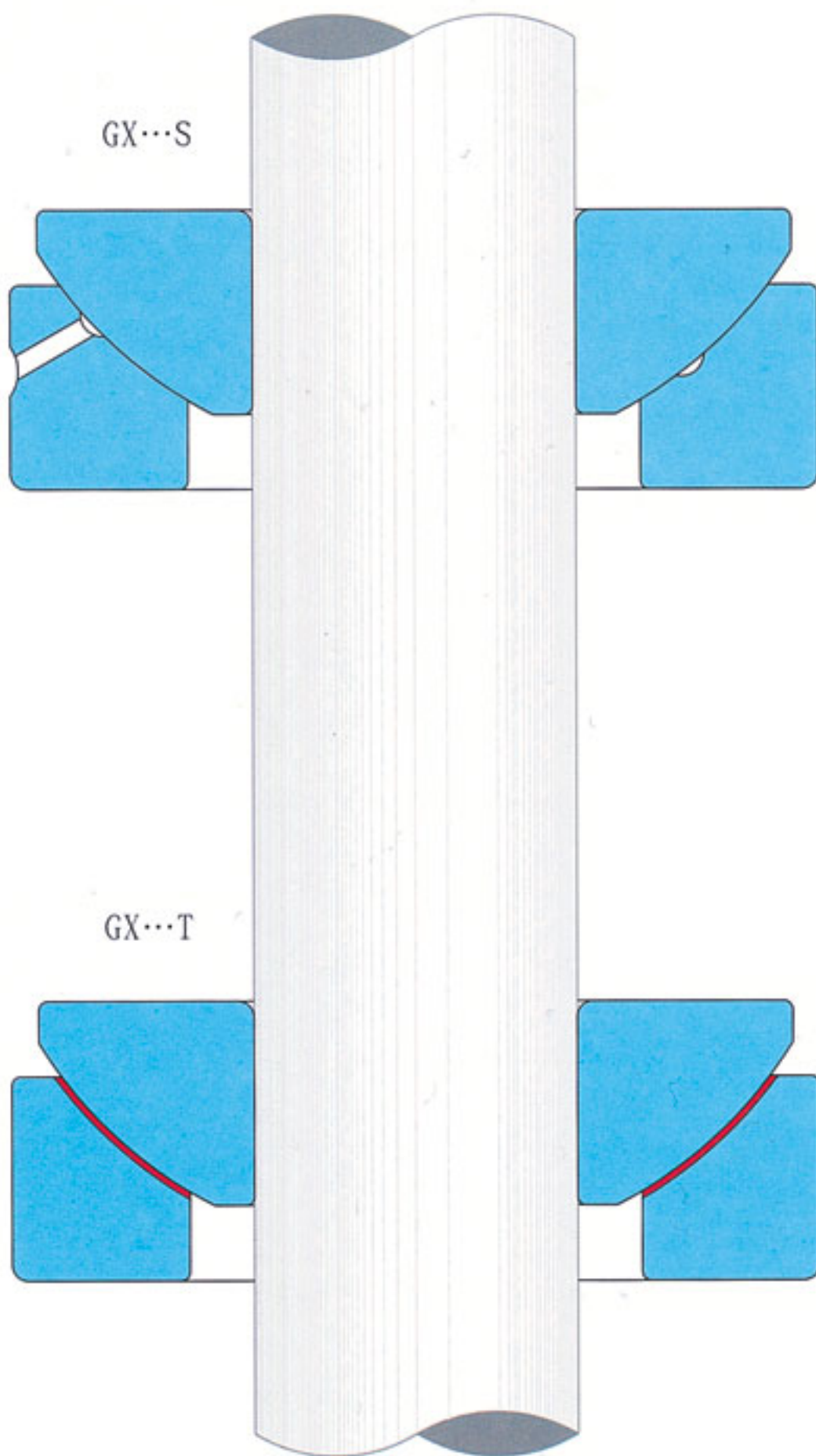


滑动摩擦副：钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric

轴承 型号 Bearing number	外形尺寸 Dimensions									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	T	d _k	S	r _s ,r _{ls} min	α° ≈	动载荷 Dynamic	静载荷 Static	
GAC25T	25	47	15	14	15	42	0.6	1	2.5	89	178	0.148
GAC28T	28	52	15	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	.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

推力关节轴承
Spherical plain thrust bearings



■ 动载荷(轴向) Dynamic load rating(Axial)
■ 静载荷(轴向) Static load rating(Axial)

推力关节轴承的滑动面倾斜于轴承内径中心线，主要用于承受单一方向轴向载荷，也可以承受一定大小的联合载荷。LS 推力关节轴承的滑动摩擦副可由不同材料组成，主要有两种：钢对钢推力关节轴承和自润滑推力关节轴承。

LS 钢对钢推力关节轴承轴圈和座圈经过淬火，磷化和涂敷二硫化钼，具有耐磨损、抗腐蚀的特点。在正常情况下，周期性润滑是必须的。为了确保有效的润滑，座圈有润滑油槽油孔。由于滑动表面具有很高的强度，这种轴承特别适合于承受交变重载、冲击载荷和静态重载。

LS 自润滑推力关节轴承滑动摩擦副是钢对 PTFE 编织物，这种轴承具有较低的摩擦系数，工作中不需维护，一般情况下润滑都会降低轴承的使用寿命。它们应用于需要较长使用寿命或工作中无法润滑的机械机构中，适合于承受恒定重载。

产品特点

LS 钢对钢推力关节轴承轴圈、座圈材料均为轴承钢，淬火，磷化，滑动表面涂敷二硫化钼，座圈有润滑油槽油孔。

LS 自润滑推力关节轴承轴圈、座圈材料均为轴承钢，淬火，轴圈外球面镀铬。

使用温度范围：钢对钢 $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ ，钢对 PTFE 编织物 $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ 。在较高温度下，轴承的使用寿命会降低。

其它说明请参考 P12~15

Spherical plain thrust bearings have sliding contact surfaces in the shaft and housing washers which are arranged at an angle to the bearing axis. They are primarily intended for axial loads although they can accommodate combined loads to a certain extent. LS spherical plain thrust bearings are available with different sliding contact surface combinations, i.e. the sliding surfaces of shaft and housing washers are made from different materials. There are two main group: steel-on-steel spherical plain thrust bearings and maintenance-free spherical plain thrust bearings.

LS steel-on-steel spherical plain thrust bearings are made of carbon chromium steel and are hardened and phosphated, the shaft and housing washers sliding contact surface are treated with molybdenum disulphide, it has characteristics of wear-resistance and wear-corrosion. Bearings with this sliding contact surface combination require regular relubrication. To facilitate efficient lubrication, housing washer have an annular groove and a lubrication hole. The high wear resistance of the sliding surfaces makes these bearings especially suitable for bearing arrangements where heavy loads of alternating direction, shock loads or heavy static loads have to be accommodated.

LS maintenance-free spherical plain thrust bearings have sliding contact surface combinations steel-on-PTFE fabric, they have very low friction and can be operated without maintenance, any lubrication of the sliding contact surfaces will shorten bearing life. They are used for applications where long bearing lives are required without maintenance, or where operating conditions, such as inadequate lubrication or the absence of lubrication make the use of steel-on-steel bearing inadvisable. The maintenance-free bearings are primarily intended for applications where loads are heavy and have a constant direction.

Design characteristics

LS steel-on-steel spherical plain thrust bearings are made of carbon chromium steel and are hardened and phosphated. The shaft and housing washers sliding contact surface are treated with molybdenum disulphide. Housing washer has an annular groove and a lubrication hole.

LS maintenance-free spherical plain thrust bearings are made of carbon chromium steel and are hardened, sliding surface of shaft washer treated with chromium plating.

Permissible operating temperature range : LS steel-on-steel and steel-on-PTFE fabric spherical plain thrust bearings can be used at temperature $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$. At higher temperature, the load carrying capacity will be reduced.

Other explanation see page 12 ~ 15



推力关节轴承公差

Tolerances for spherical plain thrust bearings

轴圈和轴承高度 Shaft washer and height of bearing

d mm		Δdmp μm		Vdp μm	$Vdmp$ μm	ΔBs μm		ΔHs μm	
超过 over	到 incl.	max	min	max	max	max	min	max	min
—	18	0	-8	8	6	0	-240	+250	-400
18	30	0	-10	10	8	0	-240	+250	-400
30	50	0	-12	12	9	0	-240	+250	-400
50	80	0	-15	15	11	0	-300	+250	-500
80	120	0	-20	20	15	0	-400	+250	-600
120	180	0	-25	25	19	0	-500	+350	-700
180	200	0	-30	30	23	0	-600	+350	-800

座圈 Housing washer

D mm		ΔDmp μm		VDp μm	$VDmp$ μm	ΔCs μm	
超过 over	到 incl.	max	min	max	max	max	min
—	30	0	-9	12	7	0	-240
30	50	0	-11	15	8	0	-240
50	80	0	-13	17	10	0	-300
80	120	0	-15	20	11	0	-400
120	150	0	-18	24	14	0	-500
150	180	0	-25	33	19	0	-500
180	250	0	-30	40	23	0	-600
250	315	0	-35	47	26	0	-700
315	400	0	-40	53	30	0	-800

尺寸和公差符号说明详见 P17 Details of dimension and tolerance symbols see page 17

推力关节轴承配合

Fits of spherical plain thrust bearings

轴配合 Shaft fits

工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
各种载荷 过盈配合 Loads of all kinds, interference fit	m6	m6

支承座配合 Housing fits

工作条件 Operating conditions	滑动摩擦副 Sliding contact surface combination	
	润滑型 requiring maintenance	自润滑型 maintenance-free
纯轴向载荷 Purely axial loads	H11	H11
联合载荷 Combined loads	J7	J7



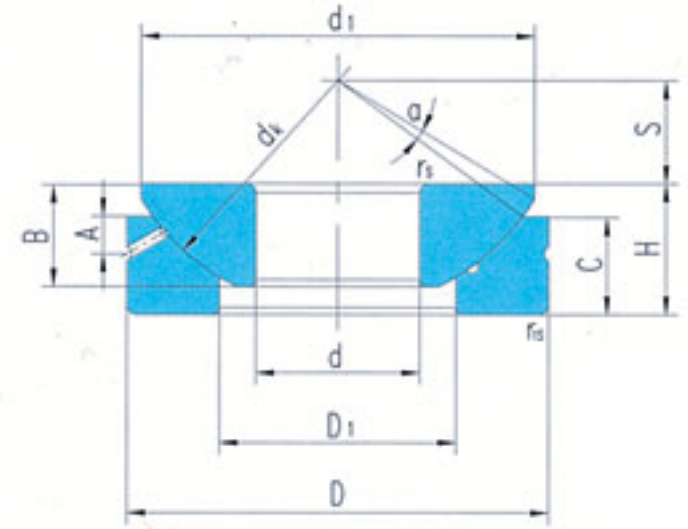
轴径公差 Shaft diameter tolerances

轴径 Shaft diameter mm		轴径公差 Shaft diameter tolerances μm	
		m6	
超过 over	到 incl.	high	low
6	10	+15	+6
10	18	+18	+7
18	30	+21	+8
30	50	+25	+9
50	80	+30	+11
80	120	+5	+13
120	180	+40	+15
180	250	+46	+17

支承座孔公差 Housing bore tolerances

支承座孔径 Housing bore diameter mm		支承座孔公差 Housing bore tolerances μm			
		H11		J7	
超过 over	到 incl.	low	high	low	high
18	30	0	+130	-9	+12
30	50	0	+160	-11	+14
50	80	0	+190	-12	+18
80	120	0	+220	-13	+22
120	150	0	+250	-14	+26
150	180	0	+250	-14	+26
180	250	0	+290	-16	+30
250	315	0	+320	-16	+36

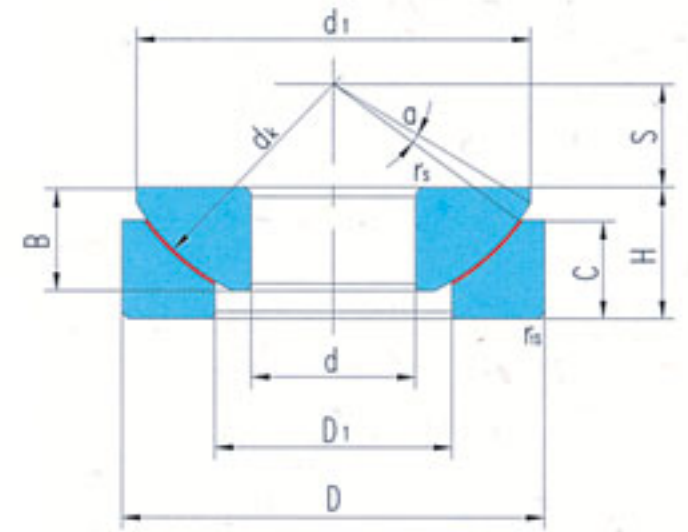
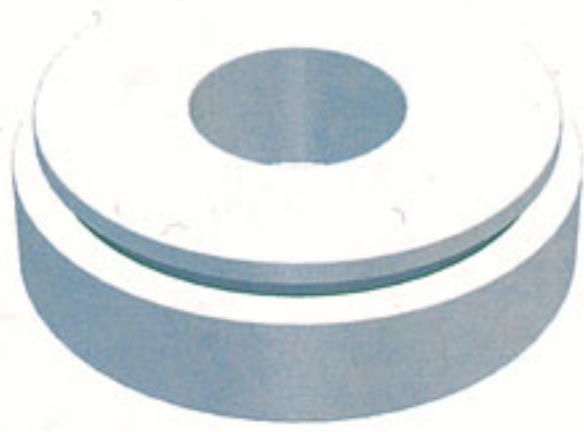




滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions												额定载荷 Load ratings kN		重量 Weight ≈ kg
	d	D	B	C	H	dk	S	d ₁ max	D ₁ min	A	r _s , r _{1s} min	α° ≈	动载荷 Dynamic	静载荷 Static	
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



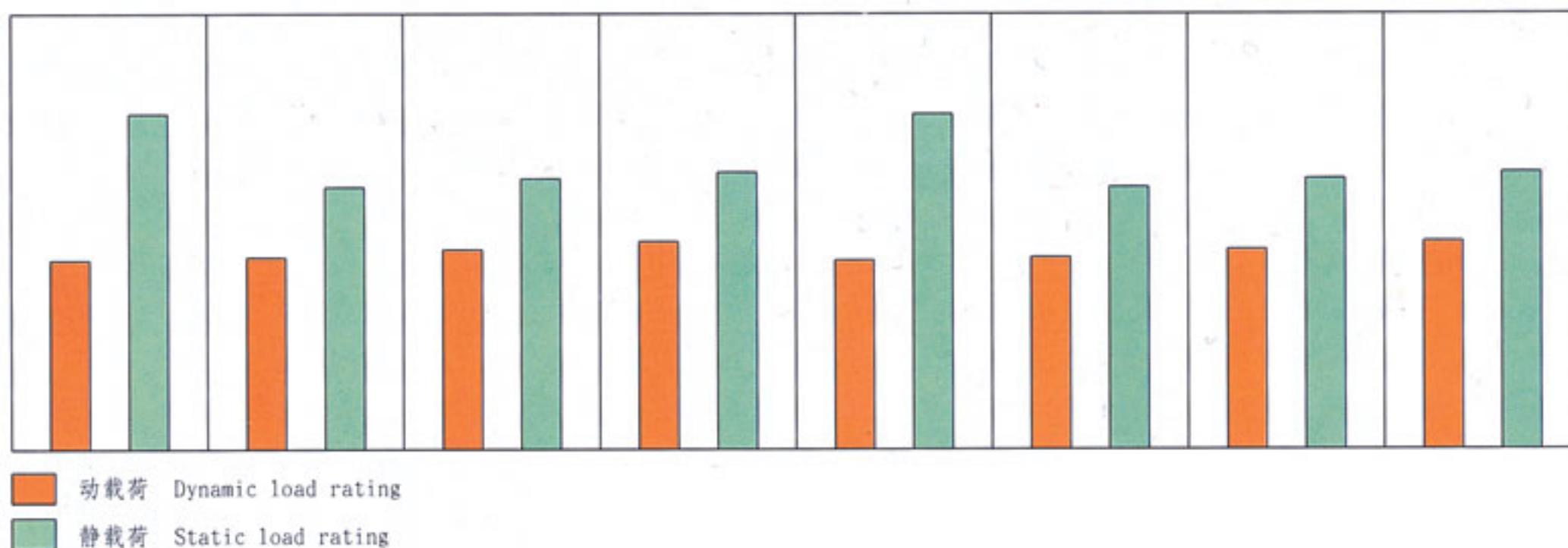
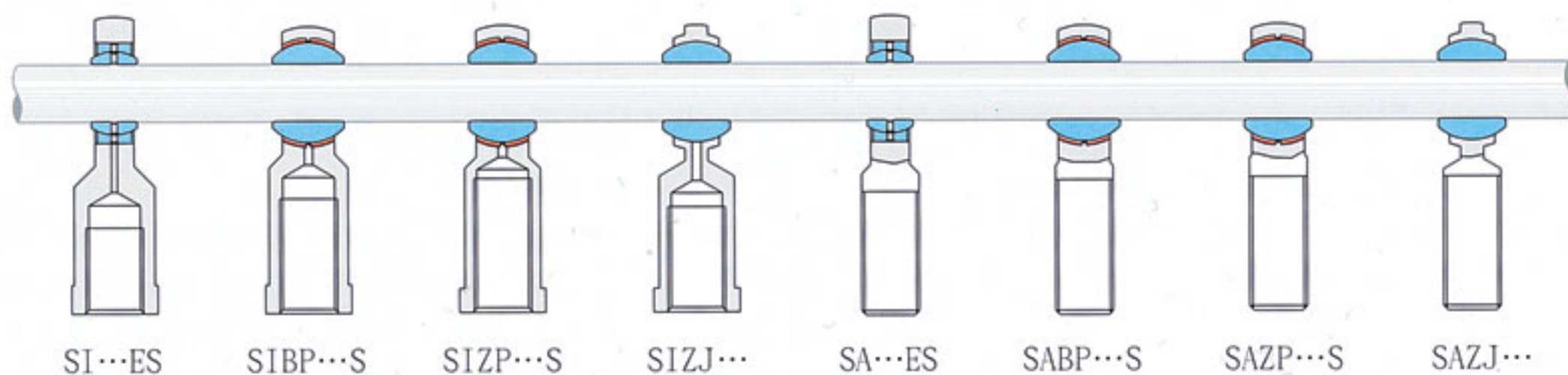
滑动摩擦副：钢 / PTFE 编织物

Sliding contact surfaces: Steel / PTFE fabric

轴承 型号 Bearing number	外形尺寸 Dimensions mm											额定载荷 Load ratings kN		重量 Weight ≈kg
	d	D	B	C	H	dk	S	d1 max	D1 min	rs,rls min	α° ≈	动载荷 Dynamic	静载荷 Static	
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

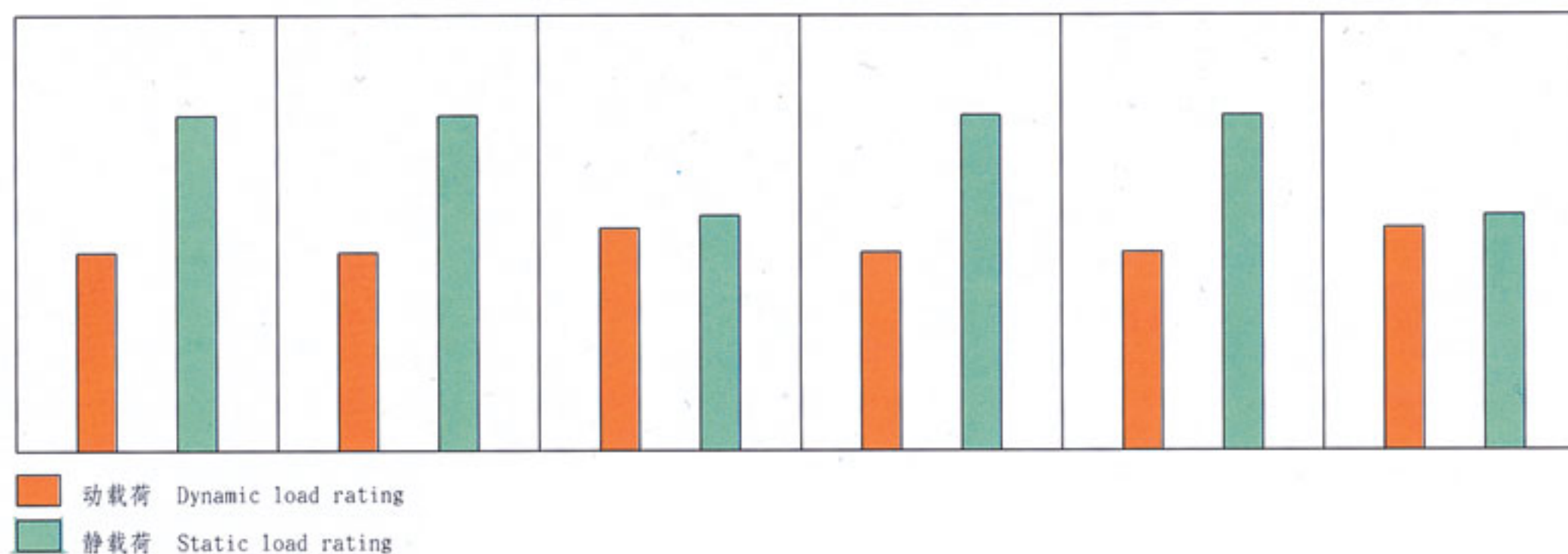
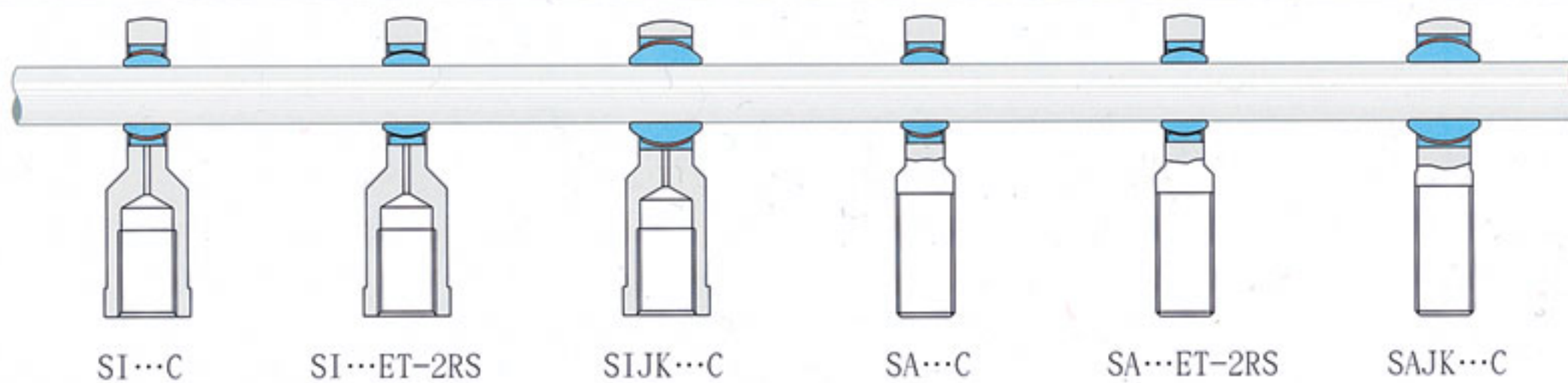
润滑型杆端关节轴承

Rod ends requiring maintenance



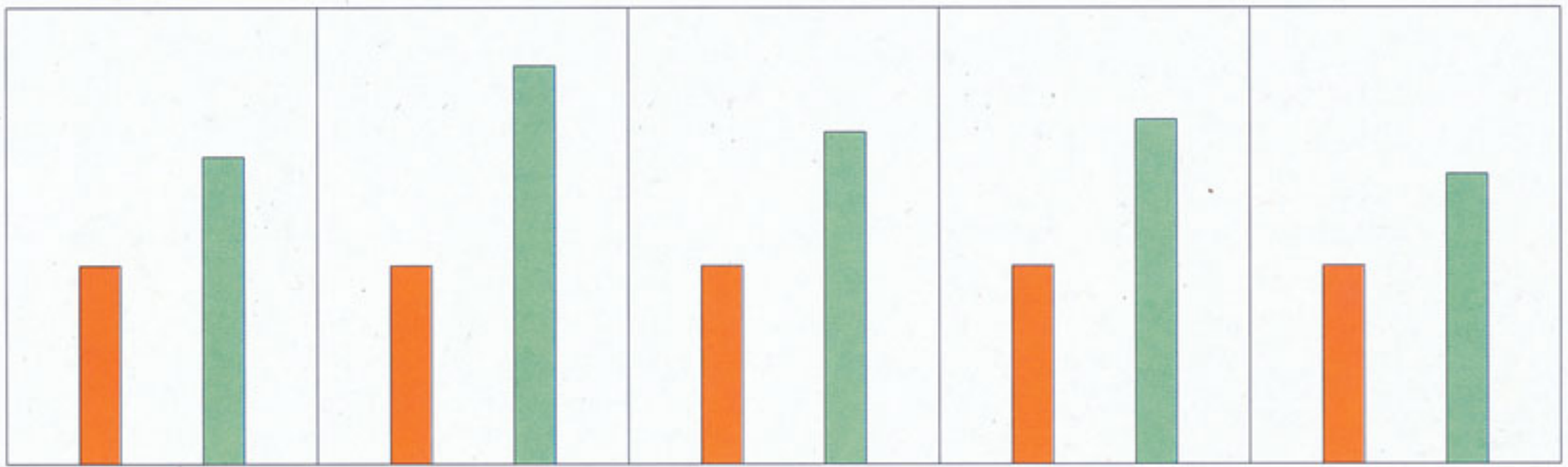
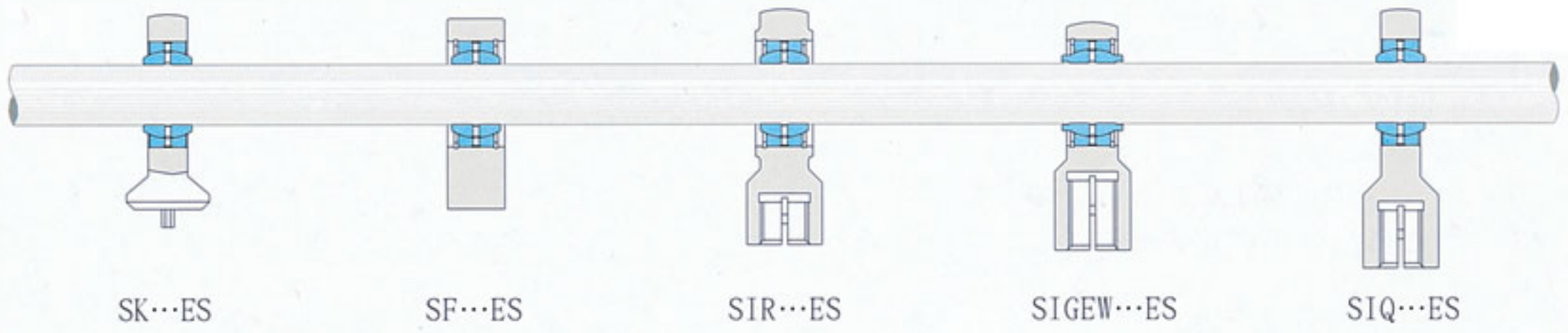
润滑型杆端关节轴承

Maintenance-free rod ends



带座、带锁口杆端关节轴承

Hydraulic rod ends



■ 动载荷 Dynamic load rating
■ 静载荷 Static load rating

杆端关节轴承 分别可由带有座孔的杆端体和向心关节轴承、杆端体和内圈或杆端体和内圈、滑动层组成，通常可分为左、右旋和内、外螺纹。LS 杆端关节轴承滑动摩擦副可由不同材料组成，主要有钢对钢、钢对青铜、钢对PTFE 复合材料和钢对 PTFE 编织物四种。

LS 钢对钢杆端关节轴承和 LS 钢对青铜杆端关节轴承具有较好的耐磨损能力，在少润滑情况下也能正常工作，但在正常情况下，周期性润滑是必须的。这种轴承特别适合于承受交变重载。

LS 自润滑杆端关节轴承滑动摩擦副有两种：钢对 PTFE 复合物和钢对 PTFE 编织物，这种轴承具有较低的摩擦系数，工作中不需维护。它们应用于需要较长使用寿命或由于工作中无法润滑使钢对钢轴承不适合的场合中，适合于承受恒定重载。

产品特点

LS 钢对钢杆端关节轴承是由杆端体和钢对钢向心关节轴承 GE...E、GE...ES、GEG...E、GEG...ES 或由杆端体和内圈组装而成。向心关节轴承安装于杆端眼孔内，在杆端体端面铆合或用挡圈固定在杆端眼孔内。SI(A)...E、SI(A)...ES 杆端体材料是碳钢，表面镀锌，耐腐蚀。SI(A)ZJ...杆端体材料是碳钢，表面镀锌，内圈材料是轴承钢，淬火，球面镀铬。SIGEW...ES、SIR...ES、SIQ...ES 内径 $d \leq 50$ ，杆端体材料是碳钢， $d \geq 60$ ，杆端体材料是球墨铸铁或铸钢，杆端体的内螺纹带有锁口，配有螺钉紧固。SK...ES、SF...ES 杆端体材料是易焊接钢，SK...ES 杆端柄部装有开口销，便于焊接时定位。LS 钢对钢杆端关节轴承可以通过油杯或杆端眼上的油孔润滑。

LS 钢对青铜杆端关节轴承是由杆端体和内圈、青铜衬垫组成，杆端体材料是碳钢，表面镀锌，耐腐蚀；内圈材料是轴承钢，淬火，球面镀铬。可以通过油杯润滑。

LS 钢对 PTFE 复合材料杆端关节轴承是由杆端体和钢对 PTFE 复合材料向心关节轴承组装而成。向心关节轴承安装于杆端眼孔内，在杆端体端面铆合固定在杆端眼孔内。杆端体材料是碳钢，表面镀锌，耐腐蚀。内圈材料是轴承钢，淬火，球面镀铬。SI(A)...C 由杆端体和自润滑向心关节轴承 GE...C 组装而成，SI(A)JK...C、SI(A)K...C 所组装的自润滑向心关节轴承外圈材料是黄铜。

Rod ends consist of an eye-shaped head with integral shank forming a housing and a standard spherical plain bearing, or a spherical plain bearing inner ring, or a spherical plain bearing inner ring and a sliding layer between the bore of the head and the inner ring. As a rule, rod ends are available with left or right-hand female or male threads. LS rod ends have the sliding contact surface combinations steel-on-steel, steel-on-bronze, steel-on-PTFE composite material and steel-on-PTFE fabric.

LS steel-on-steel and steel-on-bronze rod ends have very wear-resistant sliding surfaces and perform well under conditions of lubricant starvation. Rod ends with this sliding contact surface combination require regular relubrication. They are particularly suited for bearing arrangements where heavy alternating loads have to be accommodated.

LS maintenance-free rod ends sliding contact surfaces have two groups: steel-on-PTFE composite material and steel-on-PTFE fabric. They have very low friction and can be operated without maintenance. They are used for applications where long bearing lives are required without maintenance, or where operating conditions, such as inadequate lubrication or the absence of lubrication make the use of steel-on-steel bearing inadvisable. The maintenance-free bearings are primarily intended for applications where loads are heavy and have a constant direction.

Design characteristics

LS steel-on-steel rod ends comprise a rod end and a steel-on-steel spherical plain bearing of series GE...E,GE...ES,GEG...E and GEG...ES or a rod end and a spherical plain bearing inner ring. The bearings are held in position in the housing bore axially either by staking or by a retaining ring at both sides. Rod end of series SI(A)...E and SI(A)...ES is made of carbon steel, zinc coated to protect against corrosion. Rod end of series SI(A)ZJ...is made of carbon steel, zinc coated to protect against corrosion, inner ring of carbon chromium steel, hardened, sliding surface treated with chromium plating. Rod end of series SIGEW...ES, SIR...ES and SIQ...ES are available up to a nominal size of 50 mm made from carbon steel and as of nominal size 60 mm from spheroidal graphite cast iron or cast steel, with slot in the shank and can be clamped firmly by two hexagon socket screws. Rod end of series SK...ES and SF...ES is made of weldable steel, to facilitate centring rods of series SK...ES on other components, they are provided with a dowel pin. All LS steel-on-steel rod ends can be relubricated via a nipple or a hole in the rod end.

LS steel-on-bronze rod ends comprise a rod end, a spherical plain bearing inner ring and bronze liner, Rod end is made of carbon steel, zinc coated to protect against corrosion; inner ring of carbon chromium steel, hardened, sliding surface treated with chromium plating. LS steel-on-bronze rod ends can be relubricated via a nipple or a hole in the rod end.

LS steel-on-PTFE composite material rod ends comprise a rod end and a steel-on-PTFE composite material spherical plain bearing. The bearings are held in position in the housing bore axially by staking at both sides. Rod end is made of carbon steel, zinc coated to protect against corrosion, inner ring of carbon chromium steel, hardened, sliding surface treated with chromium plating. Rod ends of series SI(A)...C comprise a rod end and a steel-on-PTFE composite material spherical plain bearing of series GE...C, outer ring of series SI(A)JK...C and SI(A)K...C is made of brass.



LS 钢对 PTFE 编织物杆端关节轴承是由杆端体和钢对 PTFE 编织物向心关节轴承 GE...ET-2RS 组装而成。杆端体材料是碳钢，表面镀锌，耐腐蚀。

使用温度范围：钢对钢、钢对 PTFE 复合材料、钢对 PTFE 编织物 $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ ，带密封圈 $-30^{\circ}\text{C} \sim +130^{\circ}\text{C}$ 。在较高温度下，轴承的使用寿命会降低。

其它说明请参考 P12~15

LS steel-on-PTFE fabric rod ends comprise a rod end and a steel-on-PTFE fabric spherical plain bearing of series GE...ET-2RS. The bearings are held in position in the housing bore axially by staking at both sides. Rod end is made of carbon steel, zinc coated to protect against corrosion.

Permissible operating temperature range: LS steel-on-steel, steel-on-PTFE composite material and steel-on-PTFE fabric rod ends can be used at temperature $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$, LS rod ends with seals can be used at temperature $-30^{\circ}\text{C} \sim +130^{\circ}\text{C}$. At higher temperature, the load carrying capacity will be reduced.

Other explanation see page 12~15





杆端关节轴承公差

Tolerances for Rod ends

内圈 Inner ring

SI...E, SI...ES, SA...E, SA...ES, SIR...ES, SIQ...ES, SK...ES, SF...ES, SI...C, SA...C, SI...ET-2RS, SA...ET-2RS 的 Δdmp , ΔBs 同向心关节轴承 GE...E, GE...ES, GE...C, GE...ET-2RS。

The Δdmp and ΔBs of SI...E, SI...ES, SA...E, SA...ES, SIR...ES, SIQ...ES, SK...ES, SF...ES, SI...C, SA...C, SI...ET-2RS, SA...ET-2RS are the same as radial spherical plain bearings GE...E, GE...ES, GE...C and GE...ET-2RS.

SIGEW...ES 的 Δdmp , ΔBs 同向心关节轴承 GEEW...ES。

The Δdmp and ΔBs of SIGEW...ES are the same as radial spherical plain bearings GEEW...ES.

SIBP...S, SABP...S, SIZP...S, SAZP...S, SIZJ...S, SAZJ...S 的 Δdmp , ΔBs 同向心关节轴承 GEBK...S。

The Δdmp and ΔBs of SIBP...S, SABP...S, SIZP...S, SAZP...S, SIZJ...S and SAZJ...S are the same as radial spherical plain bearings GEBK...S.

SIJK...C, SAJK...C, SIK...C, SAK...C 系列 Series SIJK...C, SAJK...C, SIK...C, SAK...C

d mm		Δdmp μm		ΔBs μm	
超过 over	到 incl.	max	min	max	min
—	6	+12	0	0	-150
6	10	+15	0	0	-150
10	12	+18	0	0	-150
12	18	+18	0	0	-200
18	30	+21	0	0	-200

中心高偏差 Center height deviation

d mm		Δhs mm		Δh_{is} mm	
超过 over	到 incl.	max	min	max	min
—	6	+0.80	-1.20	+0.65	-1.05
6	20	+0.80	-1.20	+0.80	-1.20
20	30	+1.00	-1.70	+1.00	-1.70
30	45	+1.40	-2.10	+1.40	-2.10
45	60	+1.80	-2.70	+1.80	-2.70
60	80	+2.25	-3.40	+2.25	-3.40
80	125	+2.70	-3.40	+2.70	-3.40
125	200	+3.20	-4.20	+3.20	-4.20

尺寸和公差符号说明详见 P 17 Details of dimension and tolerance symbols see page 17

杆端关节轴承径向游隙

Radial internal clearance of rod ends

SI...E, SI...ES, SA...E, SA...ES, SIR...ES, SIGEW...ES, SIQ...ES, SK...ES, SF...ES 系列

Series SI...E, SI...ES, SA...E, SA...ES, SIR...ES, SIGEW...ES, SIQ...ES, SK...ES, SF...ES

d mm		基本组 Group normal μm	
超过 over	到 incl.	min	max
—	12	23	68
12	20	30	82
20	35	37	100
35	60	43	120
60	90	55	142
90	125	65	165
125	200	65	192



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

d mm		基本组 Group normal		μm
超过 over	到 incl.	min		max
—	12	0		32
12	20	0		40
20	35	0		50
35	60	0		60
60	80	0		72

SIZJ..., SAZJ...系列 Series SIZJ..., SAZJ...

d mm		基本组 Group normal		μm
超过 over	到 incl.	min		max
—	8	10		30
8	14	15		60
14	20	40		80

SIJK...C, SAJK...C, SIK...C, SAK...C 系列 Series SIJK...C, SAJK...C, SIK...C, SAK...C

d mm		基本组 Group normal		μm
超过 over	到 incl.	min		max
—	12	0		32
12	20	0		40
20	30	0		50

SIBP...S, SABP...S, SIZP...S, SAZP...S 系列 Series SIBP...S, SABP...S, SIZP...S, SAZP...S

d mm		基本组 Group normal		μm
超过 over	到 incl.	min		max
—	30	0		35

杆端关节轴承配合

Fits of rod ends

轴配合 Shaft fits

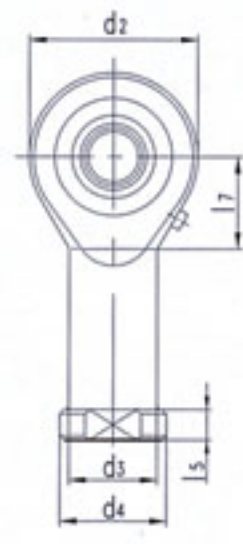
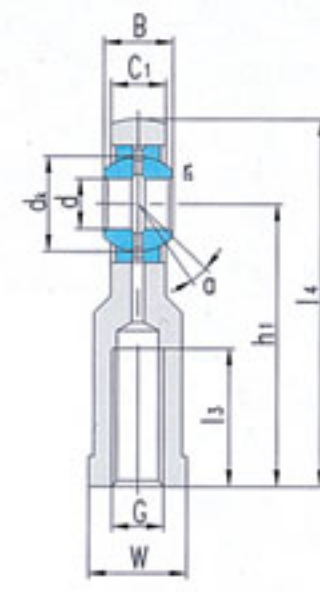
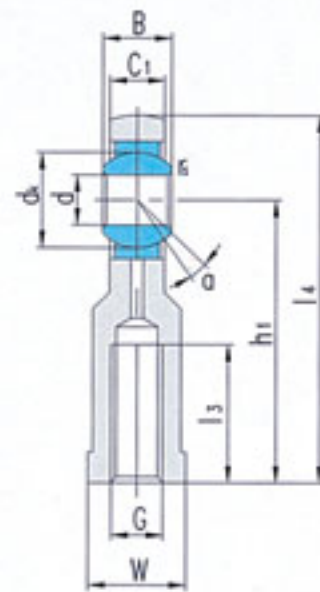
工作条件 Operating conditions	公差 Tolerance
方向不定载荷 With indeterminate loads	n6, p6
一般条件 Normal conditions	h6, h7

螺纹 Thread

外螺纹 Male thread	内螺纹 Female thread
6g	6H
UNF-2A	UNF-2B

轴径公差 Shaft diameter tolerances

轴径 Shaft diameter		轴径公差 Shaft diameter tolerances								μm
mm		h6		h7		n6		p6		
超过 over	到 incl.	high	low	high	low	high	low	high	low	
3	6	0	-8	0	-12	+16	+8	+20	+12	
6	10	0	-9	0	-15	+19	+10	+24	+15	
10	18	0	-11	0	-18	+23	+12	+29	+18	
18	30	0	-13	0	-21	+28	+15	+35	+22	
30	50	0	-16	0	-25	+33	+17	+42	+26	
50	80	0	-19	0	-30	+39	+20	+51	+32	
80	120	0	-22	0	-35	+45	+23	+59	+37	
120	180	0	-25	0	-40	+52	+27	+68	+43	
180	200	0	-29	0	-46	+60	+31	+79	+50	



滑动摩擦副: 钢 / 钢

SI...E

SI...ES

Sliding contact surfaces: Steel / Steel

轴承型号 Bearing number	外形尺寸 Dimensions																额定载荷 Load Ratings		重量 Weight ≈kg
	mm																动载荷 Dynamic	静载荷 Static	
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	l ₇	W	d ₃	d ₄	r _s min	α° ≈			
SI5E ¹⁾	5	6	10	4.5	21	M5	30	11	40.5	5	11.5	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	11.5	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	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	15	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	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	21	26	0.3	8	16	36	0.162
SI17ES ²⁾	17	14	25	11.5	46	M16	67	34	90	10	23	27	25	29	0.3	10	21	45	0.233
SI20ES ²⁾	20	16	29	13.5	53	M20×1.5	77	40	103.5	10	25.5	30	28	34	0.3	9	30	60	0.324
SI25ES	25	20	35.5	18	64	M24×2	94	48	126	12	33	36	35	42	0.6	7	48	83	0.625
SI30ES	30	22	40.7	20	73	M30×2	110	56	146.5	15	37.5	46	42	50	0.6	6	62	110	0.976
SI35ES	35	25	47	22	82	M36×3	125	60	166	15	40	55	48	58	0.6	6	79	146	1.52
SI40ES	40	28	53	24	92	M39×3	142	65	188	18	47	60	52	65	0.6	7	99	180	2.06
SI45ES	45	32	60	28	102	M42×3	145	65	196	20	52	65	58	70	0.6	7	127	240	2.72
SI50ES	50	35	66	31	112	M45×3	160	68	216	20	57	70	62	75	0.6	6	156	290	3.57
SI60ES	60	44	80	39	135	M52×3	175	70	242.5	20	68.5	80	70	88	1	6	245	450	5.63
SI70ES	70	49	92	43	160	M56×4	200	80	280	20	81	85	80	98	1	6	313	610	8.33
SI80ES	80	55	105	48	180	M64×4	230	85	320	25	91	95	95	110	1	6	400	750	13.04

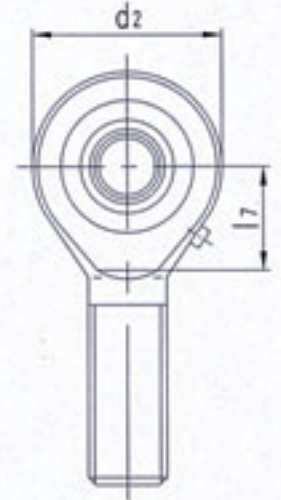
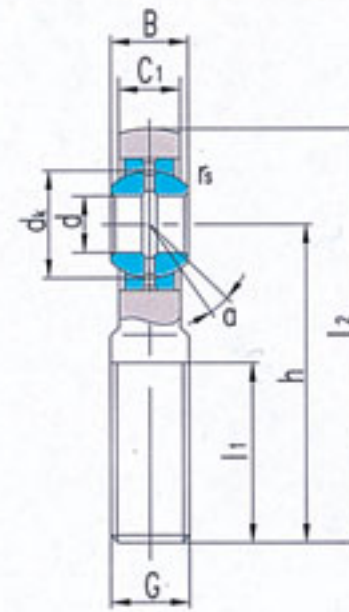
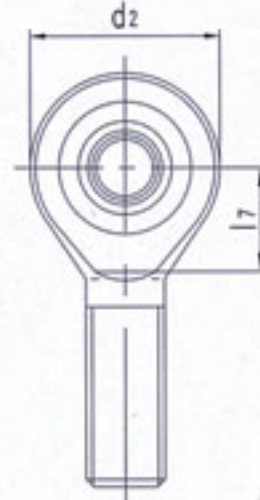
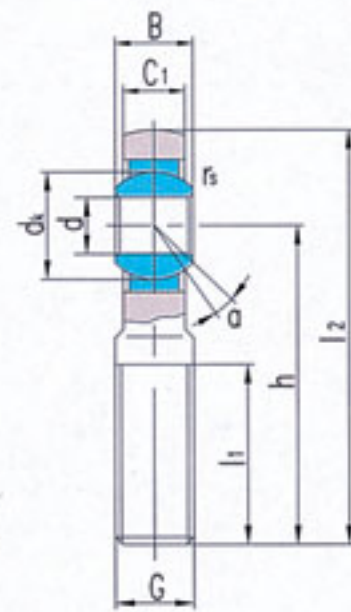
¹⁾不能润滑。Can not be relubricated.

²⁾只能通过杆端眼孔润滑。Can only be relubricated through the rod end housing.

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“左”, 例如: SIL20ES M20×1.5 左-6H。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SIL20ES M20×1.5L-6H.



滑动摩擦副：钢 / 钢

SA...E

SA...ES

Sliding contact surfaces: Steel / Steel

轴承型号 Bearing number	外形尺寸 Dimensions												额定载荷 Load ratings		重量 Weight ≈kg
	d	B	dk	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SA5E ¹⁾	5	6	10	4.5	21	M5	36	16	46.5	11.5	0.3	13	3.4	3.9	0.017
SA6E ¹⁾	6	6	10	4.5	21	M6	36	16	46.5	11.5	0.3	13	3.4	5.5	0.017
SA8E ¹⁾	8	8	13	6.5	24	M8	42	21	54	13	0.3	15	5.5	10	0.029
SA10E ¹⁾	10	9	16	7.5	29	M10	48	26	62.5	15.5	0.3	12	8.1	16	0.044
SA12E ¹⁾	12	10	18	8.5	34	M12	54	28	71	18	0.3	10	10	23	0.066
SA15ES ²⁾	15	12	22	10.5	40	M14	63	34	83	21	0.3	8	16	32	0.121
SA17ES ²⁾	17	14	25	11.5	46	M16	69	36	92	24	0.3	10	21	44	0.172
SA20ES ²⁾	20	16	29	13.5	53	M20×1.5	78	43	104.5	25.5	0.3	9	30	60	0.283
SA25ES	25	20	35.5	18	64	M24×2	94	53	126	31	0.6	7	48	83	0.504
SA30ES	30	22	40.7	20	73	M30×2	110	65	146.5	35.5	0.6	6	62	110	0.835
SA35ES	35	25	47	22	82	M36×3	140	82	181	41	0.6	6	79	146	1.41
SA40ES	40	28	53	24	92	M39×3	150	86	196	47	0.6	7	99	180	1.86
SA45ES	45	32	60	28	102	M42×3	163	92	214	52	0.6	7	127	240	2.57
SA50ES	50	35	66	31	112	M45×3	185	104	241	60	0.6	6	156	290	3.58
SA60ES	60	44	80	39	135	M52×3	210	115	277.5	75.5	1.0	6	245	450	5.73
SA70ES	70	49	92	43	160	M56×4	235	125	315	95	1.0	6	313	610	7.94
SA80ES	80	55	105	48	180	M64×4	270	140	360	105.5	1.0	6	400	750	12.06

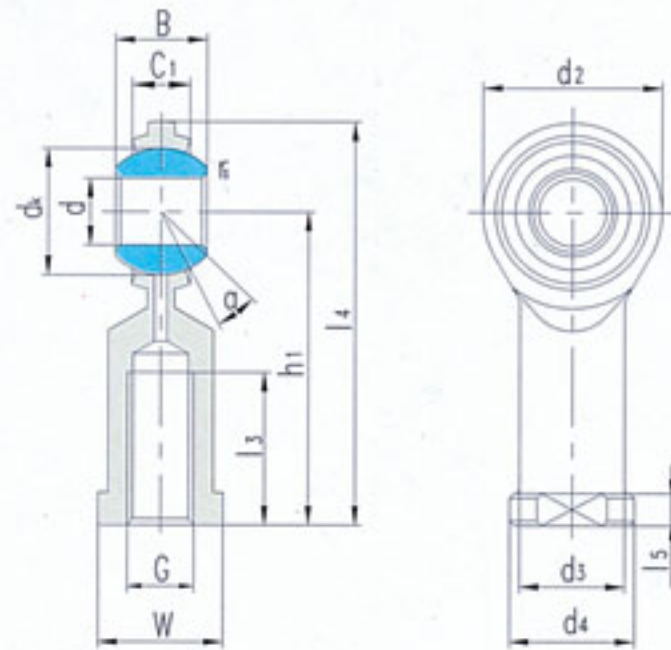
¹⁾不能润滑。Can not be relubricated.

²⁾只能通过杆端眼孔润滑。Can only be relubricated through the rod end housing.

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SAL20ES M20×1.5 左-6g。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SAL20ES M20×1.5L-6g.



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

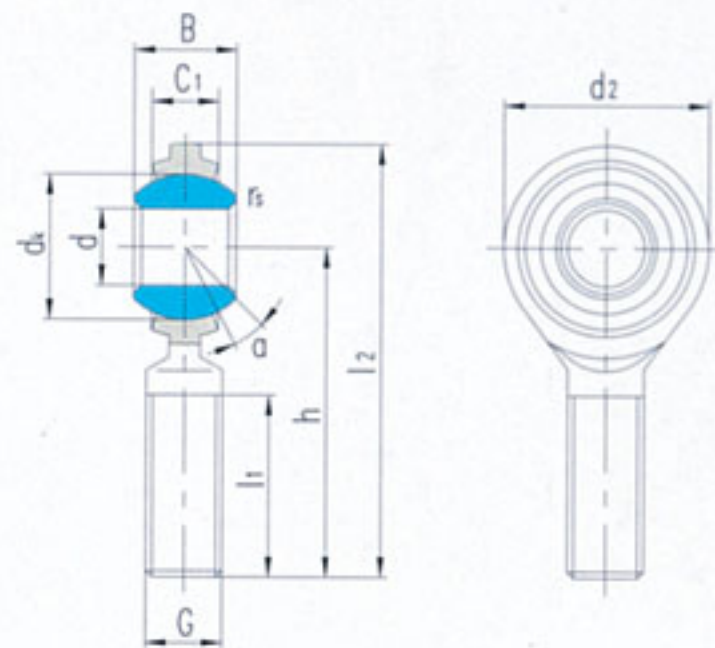
轴承型号 Bearing number	外形尺寸 Dimensions															额定载荷 Load ratings kN		重量 Weight ≈kg
	d	B	dk	C ₁ max	d ₂	G	h ₁	l ₃ min	l ₄	l ₅	W	d ₃	d ₄	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SIZJ4	4.83	7.92	11.1	5.94	15.88	10-32	26.97	12.70	34.93	4.75	7.92	7.54	10.31	0.3	10	3.6	6.8	0.018
	0.19	0.312	0.437	0.234	0.625		1.062	0.5	1.375	0.187	0.312	0.297	0.406	0.012				
SIZJ6	6.35	9.53	12.7	6.35	19.05	1/4-28	33.32	15.88	42.85	4.75	9.53	9.15	11.91	0.3	13.5	5.4	9.6	0.023
	0.25	0.375	0.5	0.25	0.75		1.312	0.625	1.687	0.187	0.375	0.36	0.469	0.012				
SIZJ7	7.94	11.10	15.88	7.92	22.23	5/16-24	34.93	15.88	46.02	4.75	11.1	10.72	12.70	0.3	11	8.5	12	0.036
	0.3125	0.437	0.625	0.312	0.875		1.375	0.625	1.812	0.187	0.437	0.422	0.5	0.012				
SIZJ9	9.53	12.70	18.26	9.12	25.40	3/8-24	41.28	19.05	53.98	6.35	14.27	13.89	17.45	0.6	11	11	16	0.059
	0.375	0.5	0.719	0.359	1		1.625	0.75	2.125	0.25	0.562	0.547	0.687	0.024				
SIZJ11	11.11	14.27	20.62	10.31	28.58	7/16-20	46.02	22.23	60.33	6.35	15.88	15.49	19.05	0.6	10.5	14	21	0.082
	0.4375	0.562	0.812	0.406	1.125		1.812	0.875	2.375	0.25	0.625	0.61	0.75	0.024				
SIZJ12	12.7	15.88	23.81	11.50	33.32	1/2-20	53.98	25.40	70.64	6.35	19.05	18.67	22.23	0.6	10	18	28	0.132
	0.5	0.625	0.937	0.453	1.312		2.125	1	2.781	0.25	0.75	0.735	0.875	0.024				
SIZJ15	15.88	19.05	28.58	12.29	38.10	5/8-18	63.50	31.75	82.55	7.92	22.23	21.84	25.40	0.6	13	23	29	0.195
	0.625	0.75	1.125	0.484	1.5		2.5	1.25	3.25	0.312	0.875	0.86	1	0.024				
SIZJ19	19.05	22.23	33.32	15.06	44.45	3/4-16	73.03	34.93	95.25	7.92	25.4	25.02	28.58	0.6	12	34	44	0.295
	0.75	0.875	1.312	0.593	1.75		2.875	1.375	3.75	0.312	1	0.985	1.125	0.024				

可提供不同螺纹精度要求的杆端关节轴承。Can supply other rod ends with different accuracy of thread. 若是左旋螺纹，轴承型号和螺纹标记需加“L”和“LH”，例如：SILZJ12 1/2-20-2BLH。

For left-hand thread, suffix “L” is added to bearings number and suffix “LH” is added to thread sign, e.g. SILZJ12 1/2-20-2BLH.

上列产品用不锈钢制造（杆端体和内圈），轴承型号后面加“X”标识，即 SIZJ.../X。

The rod and inner ring of the bearings is of stainless steel and the mark of the items has a letter “X”. That is SIZJ.../X.



滑动摩擦副: 钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承型号 Bearing number	外形尺寸 Dimensions											额定载荷 Load ratings kN		重量 Weight ≈kg
	d	B	dk	C ₁ max	d ₂	G	h	l ₁ min	l ₂	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SAZJ4	4.83	7.92	11.1	5.94	15.88	10-32	31.75	19.05	39.70	0.3	10	3.6	3.8	0.014
	0.19	0.312	0.437	0.234	0.625		1.25	0.75	1.563	0.012				
SAZJ6	6.35	9.53	12.7	6.35	19.05	1/4-28	39.67	25.40	49.20	0.3	13.5	5.4	6.6	0.018
	0.25	0.375	0.5	0.25	0.75		1.562	1	1.937	0.012				
SAZJ7	7.94	11.10	15.88	7.92	22.23	5/16-24	47.63	31.75	58.72	0.3	11	8.5	12	0.032
	0.3125	0.437	0.625	0.312	0.875		1.875	1.25	2.312	0.012				
SAZJ9	9.53	12.70	18.26	9.12	25.40	3/8-24	49.23	31.75	61.93	0.6	11	11	16	0.050
	0.375	0.5	0.719	0.359	1		1.938	1.25	2.438	0.024				
SAZJ11	11.11	14.27	20.62	10.31	28.58	7/16-20	53.98	34.93	68.28	0.6	10.5	14	21	0.068
	0.4375	0.562	0.812	0.406	1.125		2.125	1.375	2.688	0.024				
SAZJ12	12.7	15.88	23.81	11.50	33.32	1/2-20	61.93	38.10	78.59	0.6	10	18	28	0.11
	0.5	0.625	0.937	0.453	1.312		2.438	1.5	3.094	0.024				
SAZJ15	15.88	19.05	28.58	12.29	38.10	5/8-18	66.68	41.28	85.73	0.6	13	23	29	0.16
	0.625	0.75	1.125	0.484	1.5		2.625	1.625	3.375	0.024				
SAZJ19	19.05	22.23	33.32	15.06	44.45	3/4-16	73.03	44.45	95.25	0.6	12	34	44	0.26
	0.75	0.875	1.312	0.593	1.75		2.875	1.75	3.75	0.024				

可提供不同螺纹精度要求的杆端关节轴承。Can supply other rod ends with different accuracy of thread.

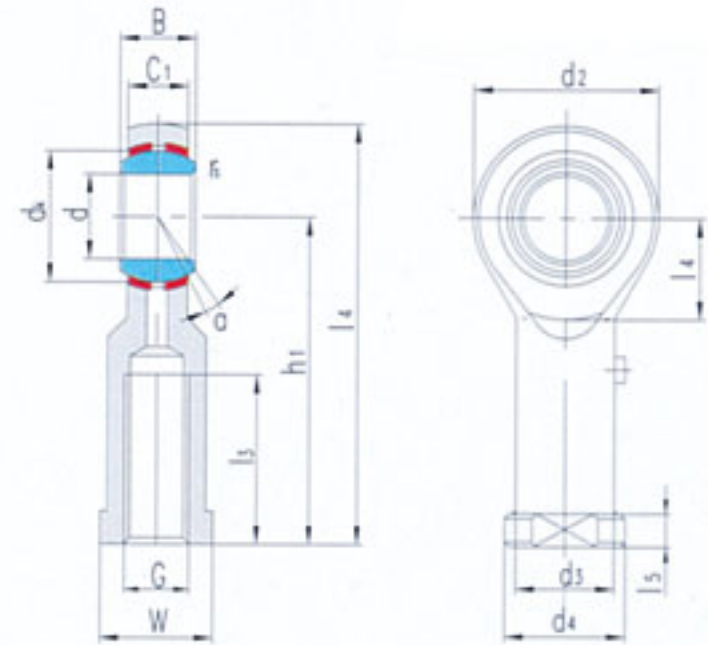
若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“LH”, 例如: SALZJ12 1/2-20-2ALH。

For left-hand thread, suffix “L” is added to bearings number and suffix “LH” is added to thread sign,

e.g. SALZJ12S 1/2-20-2ALH.

上列产品用不锈钢制造 (杆端体和内圈), 轴承型号后面加“X”标识, 即 SAZJ.../X。

The rod and inner ring of the bearings is of stainless steel and the mark of the items has a letter “X”. That is SAZJ.../X.



滑动摩擦副: 钢 / 青铜

Sliding contact surfaces: Steel / Bronze

轴承 型号 Bearing number	外形尺寸 Dimensions																额定载荷 Load ratings		重量 Weight ≈kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	l ₇	W	d ₃	d ₄	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SIBP5S	5	8	11.112	6	16	M5	27	14	35	4	8	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	9	11	10	13	0.3	13	4.3	5.3	0.026
SIBP8S	8	12	15.88	9	22	M8	36	17	47	5	11	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	13	17	15	19	0.3	14	10	11	0.072
SIBP10S/B1						M10×1.25													
SIBP12S	12	16	22.23	12	30	M12	50	24	65	6.5	15	19	17.5	22	0.3	13	13	14	0.108
SIBP12S/B2						M12×1.25													
SIBP14S	14	19	25.4	13.5	34	M14	57	27	74	8	16	22	20	25	0.3	16	17	20	0.161
SIBP14S/B1						M14×1.5													
SIBP16S	16	21	28.58	15	38	M16	64	33	83	8	17.5	22	22	27	0.3	15	21	25	0.225
SIBP16S/B1						M16×1.5													
SIBP18S	18	23	31.75	16.5	42	M18×1.5	71	36	92	10	19.5	27	25	31	0.6	15	26	30	0.295
SIBP20S	20	25	34.93	18	46	M20×1.5	77	40	100	10	21.5	30	27.5	34	0.6	15	31	35	0.382
SIBP22S	22	28	38.1	20	50	M22×1.5	84	43	109	12	23	32	30	37	0.6	15	38	43	0.488
SIBP25S	25	31	42.86	22	60	M24×2	94	48	124	12	29.5	36	33.5	42	0.6	15	47	65	0.749
SIBP28S	28	35	47.63	25	66	M27×2	103	53	136	12	32.5	41	37	46	0.6	15	59	77	0.949
SIBP30S	30	37	50.8	25	70	M30×2	110	56	145	15	34	41	40	50	0.6	17	63	86	1.13

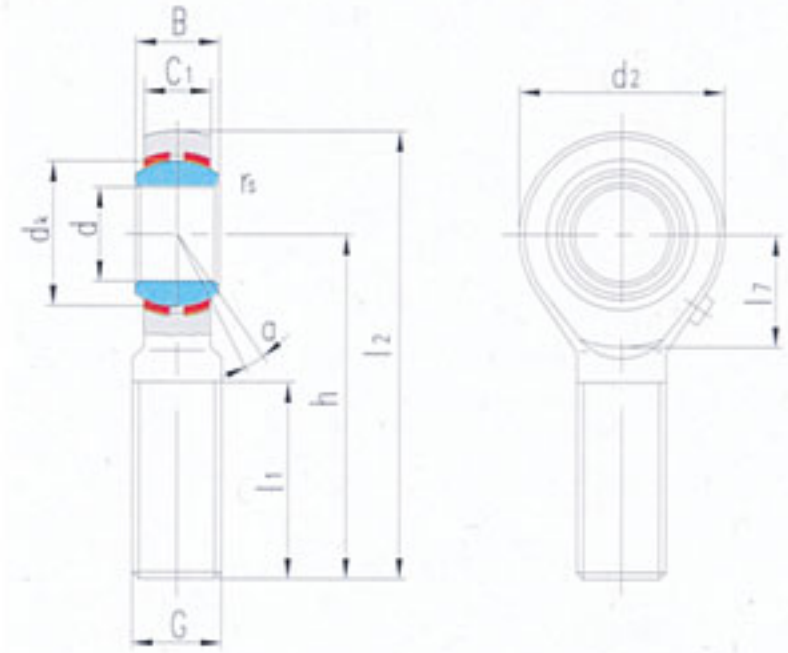
可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“左”, 例如: SILBP20S M20×1.5 左-6H。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SILBP20S M20×1.5L-6H.

上列产品用不锈钢制造(杆端体和内圈), 轴承型号后面加“X”标识, 即 SIBP...S/X。

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.



滑动摩擦副：钢 / 青铜

Sliding contact surfaces: Steel / Bronze

轴承 型号 Bearing number	外形尺寸 Dimensions											额定载荷 Load ratings		重量 Weight ≈kg	
	d	B	dk	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic		静载荷 Static
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	M18×1.5	72	44	93	23	0.6	15	26	30	0.295
SABP20S	20	25	34.93	18	46	M20×1.5	78	47	101	25	0.6	15	31	35	0.382
SABP22S	22	28	38.1	20	50	M22×1.5	84	51	109	27	0.6	15	38	43	0.488
SABP25S	25	31	42.86	22	60	M24×2	94	57	124	29	0.6	15	47	65	0.749
SABP28S	28	35	47.63	25	66	M27×2	103	62	136	33	0.6	15	59	77	0.949
SABP30S	30	37	50.8	25	70	M30×2	110	66	145	39	0.6	17	63	86	1.13

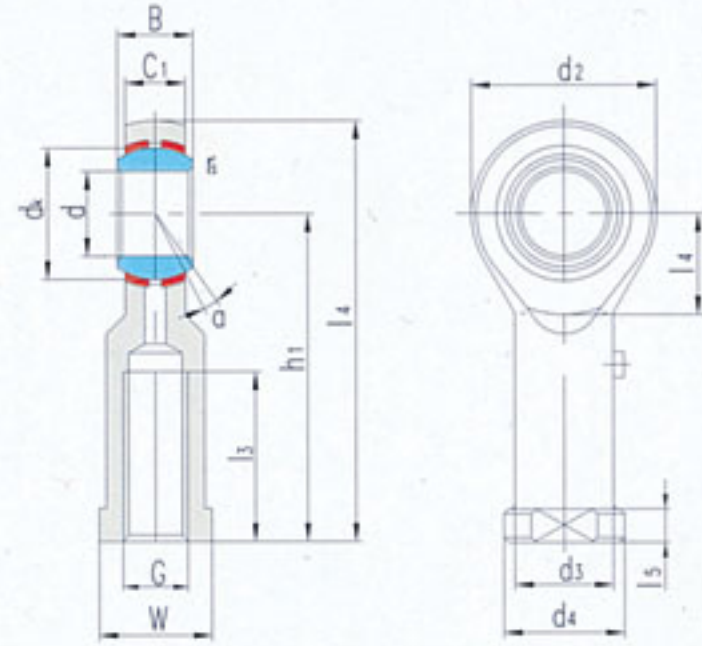
可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SALBP20S M20×1.5 左-6g。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SALBP20S M20×1.5L-6g.

上列产品用不锈钢制造（杆端体和内圈），轴承型号后面加“X”标识，即 SABP...S/X。

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



滑动摩擦副: 钢 / 青铜

Sliding contact surfaces: Steel / Bronze

轴承型号 Bearing number	外形尺寸 Dimensions															额定载荷 Load ratings kN		重量 Weight ≈kg	
	d	B	dk	C ₁ max	d ₂	G	h ₁	l ₃ min	l ₄	l ₅	l ₇	W	d ₃	d ₄	r _s min	α° ≈	动载荷 Dynamic		静载荷 Static
SIZP4S	4.83	7.92	11.1	6.35	15.88	10-32	26.97	14.27	34.93	4.75	9	7.92	7.54	10.31	0.3	10	3.4	4.6	0.015
	0.19	0.312	0.437	0.25	0.625		1.062	0.562	1.375	0.187	0.354	0.312	0.297	0.406	0.012				
SIZP6S	6.35	9.53	12.7	7.14	19.05	1/4-28	33.32	19.05	42.85	4.75	10.5	9.53	9.15	11.91	0.3	13	4.5	7.7	0.025
	0.25	0.375	0.5	0.281	0.75		1.312	0.75	1.687	0.187	0.413	0.375	0.36	0.469	0.012				
SIZP7S	7.94	11.10	15.88	8.74	22.23	5/16-24	34.93	19.05	46.02	4.75	11.7	11.1	10.72	12.70	0.3	10	6.9	8.4	0.036
	0.3125	0.437	0.625	0.344	0.875		1.375	0.75	1.812	0.187	0.461	0.437	0.422	0.5	0.012				
SIZP9S	9.53	12.70	18.26	10.31	25.40	3/8-24	41.28	23.80	53.98	6.35	12.3	14.27	13.89	17.45	0.6	9	9.4	10	0.061
	0.375	0.5	0.719	0.406	1		1.625	0.937	2.125	0.25	0.484	0.562	0.547	0.687	0.024				
SIZP11S	11.11	14.27	20.62	11.1	28.58	7/16-20	46.02	26.97	60.33	6.35	14	15.88	15.49	19.05	0.6	11	11	13	0.081
	0.4375	0.562	0.812	0.437	1.125		1.812	1.062	2.375	0.25	0.551	0.625	0.61	0.75	0.024				
SIZP12S	12.7	15.88	23.81	12.7	33.32	1/2-20	53.98	30.15	70.64	6.35	16.2	19.05	18.67	22.23	0.6	9	15	19	0.133
	0.5	0.625	0.937	0.5	1.312		2.125	1.187	2.781	0.25	0.638	0.75	0.735	0.875	0.024				
SIZP15S	15.88	19.05	28.58	14.27	38.10	5/8-18	63.50	38.10	82.55	7.92	18.2	22.23	21.84	25.40	0.6	11	20	21	0.190
	0.625	0.75	1.125	0.562	1.5		2.5	1.5	3.25	0.312	0.717	0.875	0.86	1	0.024				
SIZP19S	19.05	22.23	33.32	17.45	44.45	3/4-16	73.03	44.45	95.25	7.92	20.9	25.4	25.02	28.58	0.6	10	29	29	0.285
	0.75	0.875	1.312	0.687	1.75		2.875	1.75	3.75	0.312	0.823	1	0.985	1.125	0.024				
SIZP25S	25.40	34.93	47.63	25.40	69.85	5/4-12	104.78	53.98	139.70	11.10	33.1	38.1	37.72	44.45	0.6	14	60	101	1.00
	1	1.375	1.875	1	2.75		4.125	2.125	5.5	0.437	1.303	1.5	1.485	1.75	0.024				

可提供不同螺纹精度要求的杆端关节轴承。Can supply other rod ends with different accuracy of thread.

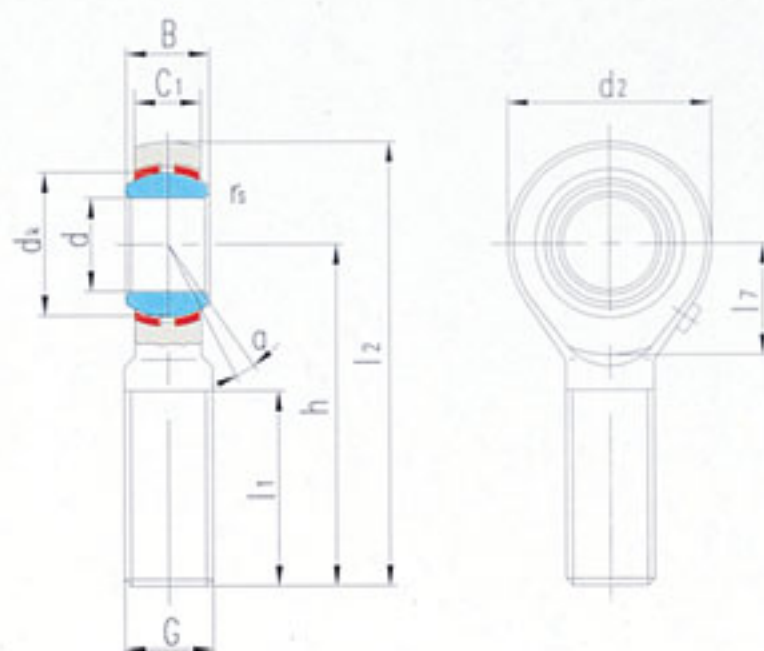
若是左旋螺纹，轴承型号和螺纹标记需加“L”和“LH”，例如：SILZP12S 1/2-20-2BLH。

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.

上列产品用不锈钢制造（杆端体和内圈），轴承型号后面加“X”标识，即 SIZP...S/X。

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.



滑动摩擦副：钢 / 青铜

Sliding contact surfaces: Steel / Bronze

轴承 型号 Bearing number	外形尺寸 Dimensions											额定载荷 Load ratings kN		重量 Weight ≈kg	
	d	B	dk	C ₁ max	d ₂	G	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic		静载荷 Static
SAZP4S	4.83	7.92	11.1	6.35	15.88	10-32	31.75	19.05	39.70	—	0.3	10	3.4	3.8	0.013
	0.19	0.312	0.437	0.25	0.625		1.25	0.75	1.563		0.012				
SAZP6S	6.35	9.53	12.7	7.14	19.05	1/4-28	39.67	25.40	49.20	—	0.3	13	4.5	6.6	0.022
	0.25	0.375	0.5	0.281	0.75		1.562	1	1.937		0.012				
SAZP7S	7.94	11.10	15.88	8.74	22.23	5/16-24	47.63	31.75	58.72	—	0.3	10	6.9	8.4	0.037
	0.3125	0.437	0.625	0.344	0.875		1.875	1.25	2.312		0.012				
SAZP9S	9.53	12.70	18.26	10.31	25.40	3/8-24	49.23	31.75	61.93	—	0.6	9	9.4	10	0.055
	0.375	0.5	0.719	0.406	1		1.938	1.25	2.438		0.024				
SAZP11S	11.11	14.27	20.62	11.1	28.58	7/16-20	53.98	34.93	68.28	—	0.6	11	11	13	0.078
	0.4375	0.562	0.812	0.437	1.125		2.125	1.375	2.688		0.024				
SAZP12S	12.7	15.88	23.81	12.7	33.32	1/2-20	61.93	38.10	78.59	—	0.6	9	15	19	0.12
	0.5	0.625	0.937	0.5	1.312		2.438	1.5	3.094		0.024				
SAZP15S	15.88	19.05	28.58	14.27	38.10	5/8-18	66.68	41.28	85.73	18.2	0.6	11	20	21	0.18
	0.625	0.75	1.125	0.562	1.5		2.625	1.625	3.375		0.717				
SAZP19S	19.05	22.23	33.32	17.45	44.45	3/4-16	73.03	44.45	95.25	20.9	0.6	10	29	29	0.29
	0.75	0.875	1.312	0.687	1.75		2.875	1.75	3.75		0.823				
SAZP25S	25.40	34.93	47.63	25.40	69.85	5/4-12	104.78	53.98	139.70	33.9	0.6	14	60	101	1.1
	1	1.375	1.875	1	2.75		4.125	2.125	5.5		1.335				

可提供不同螺纹精度要求的杆端关节轴承。Can supply other rod ends with different accuracy of thread.

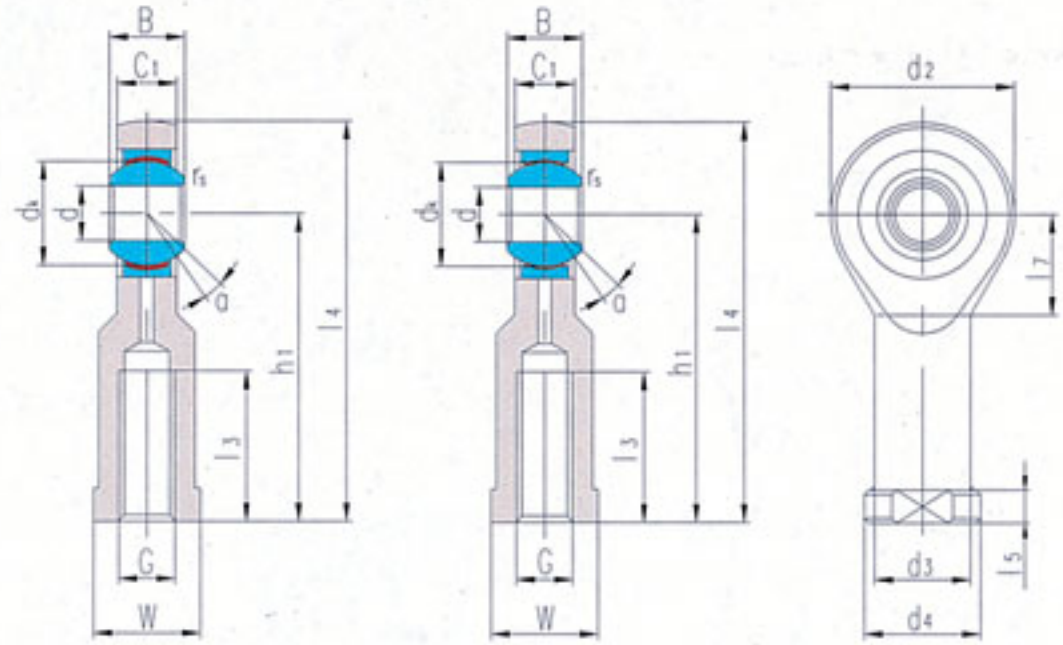
若是左旋螺纹，轴承型号和螺纹标记需加“L”和“LH”，例如：SALZP12S 1/2-20-2ALH。

For left-hand thread, suffix “L” is added to bearings number and suffix “LH” is added to thread sign,

e.g. SALZP12S 1/2-20-2ALH.

上列产品用不锈钢制造（杆端体和内圈），轴承型号后面加“X”标识，即SAZP...S/X。

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



滑动摩擦副: 钢 / PTFE 复合材料($d \leq 30$)
 钢 / PTFE 编织物 ($d \geq 15$)

SI...C

SI...ET-2RS、

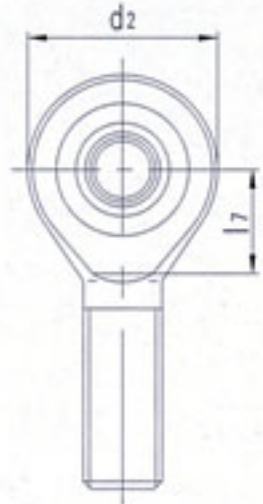
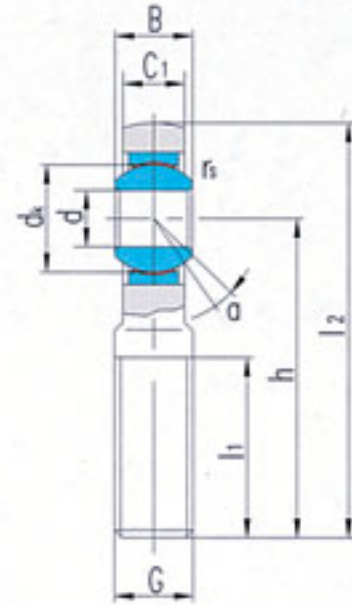
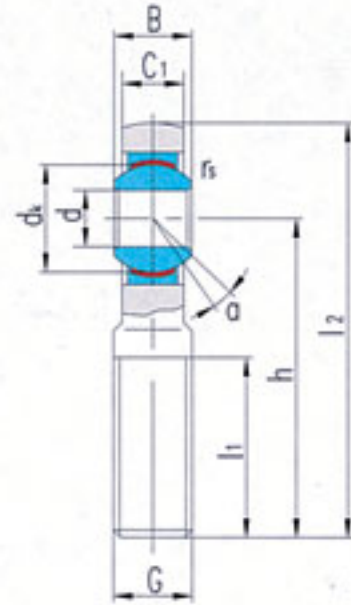
Sliding contact surfaces: Steel / PTFE composite material($d \leq 30$)
 Steel / PTFE fabric($d \geq 15$)

轴承 型号 Bearing number	外形尺寸 Dimensions																额定载荷 Load Ratings kN		重量 Weight ≈ kg
	mm																动载荷 Dynamic	静载荷 Static	
	d	B	d_K	C_1 max	d_2	G 6H	h_1	l_3 min	l_4	l_5	l_7	W	d_3	d_4	r_s min	α° ≈			
SI5C	5	6	10	4.5	21	M5	30	11	40.5	5	11.5	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	11.5	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	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	15	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	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	21	26	0.3	8	18	36	0.16
SI15ET-2RS																			
SI17C	17	14	25	11.5	46	M16	67	34	90	10	24	27	25	29	0.3	10	22	45	0.23
SI17ET-2RS																			
SI20C	20	16	29	13.5	53	M20×1.5	77	40	103.5	10	25.5	30	28	34	0.3	9	31	60	0.32
SI20ET-2RS																			
SI25C	25	20	35.5	18	64	M24×2	94	48	126	12	33	36	35	42	0.6	7	51	83	0.62
SI25ET-2RS																			
SI30C	30	22	40.7	20	73	M30×2	110	56	146.5	15	37.5	46	42	50	0.6	6	65	110	0.97
SI30ET-2RS																			
SI35ET-2RS	35	25	47	22	82	M36×3	125	60	166	15	40	55	48	58	0.6	6	112	146	1.5
SI40ET-2RS	40	28	53	24	92	M39×3	142	65	188	18	47	60	52	65	0.6	7	140	180	2.1
SI45ET-2RS	45	32	60	28	102	M42×3	145	65	196	20	52	65	58	70	0.6	7	180	240	2.7
SI50ET-2RS	50	35	66	31	112	M45×3	160	68	216	20	57	70	62	75	0.6	6	220	290	3.5
SI60ET-2RS	60	44	80	39	135	M52×3	175	70	242.5	20	68.5	80	70	88	1	6	345	450	5.6
SI70ET-2RS	70	49	92	43	160	M56×4	200	80	280	20	81	85	80	98	1	6	440	610	8.3
SI80ET-2RS	80	55	105	48	180	M64×4	230	85	320	25	91	95	95	110	1	6	567	750	13

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“左”, 例如: SIL20C M20×1.5 左-6H.

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SIL20C M20×1.5L-6H.



滑动摩擦副: 钢 / PTFE 复合材料($d \leq 30$)
 钢 / PTFE 编织物 ($d \geq 15$)

SA...C

SA...ET-2RS

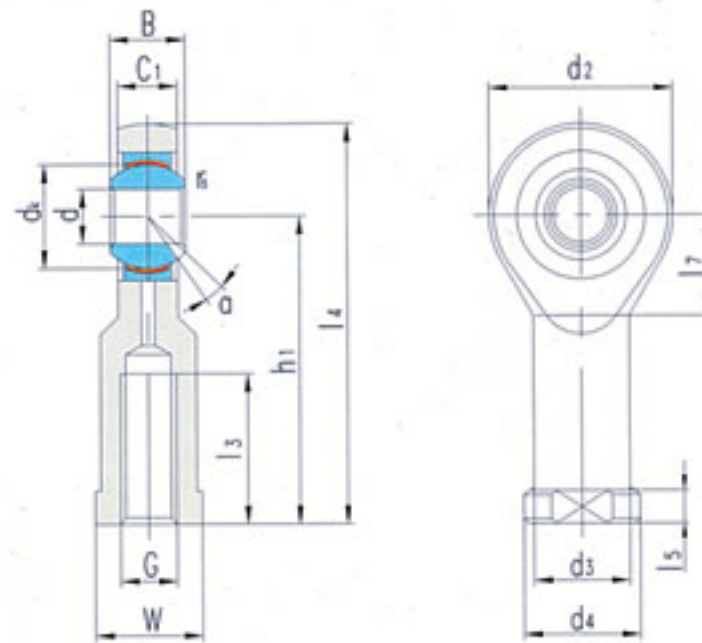
Sliding contact surfaces: Steel / PTFE composite material($d \leq 30$)
 Steel / PTFE fabric($d \geq 15$)

轴承 型号 Bearing number	外形尺寸 Dimensions											额定载荷 Load ratings kN		重量 Weight ≈kg	
	d	B	dk	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic		静载荷 Static
SA5C	5	6	10	4.5	21	M5	36	16	46.5	11.5	0.3	13	3.6	3.9	0.017
SA6C	6	6	10	4.5	21	M6	36	16	46.5	11.5	0.3	13	3.6	5.5	0.017
SA8C	8	8	13	6.5	24	M8	42	21	54	13	0.3	15	5.8	10	0.029
SA10C	10	9	16	7.5	29	M10	48	26	62.5	15.5	0.3	12	8.6	16	0.044
SA12C	12	10	18	8.5	34	M12	54	28	71	18	0.3	10	11	23	0.066
SA15C	15	12	22	10.5	40	M14	63	34	83	21	0.3	8	18	32	0.12
SA15ET-2RS															
SA17C	17	14	25	11.5	46	M16	69	36	92	24	0.3	10	22	44	0.17
SA17ET-2RS															
SA20C	20	16	29	13.5	53	M20×1.5	78	43	104.5	25.5	0.3	9	31	60	0.28
SA20ET-2RS															
SA25C	25	20	35.5	18	64	M24×2	94	53	126	31	0.6	7	51	83	0.51
SA25ET-2RS															
SA30C	30	22	40.7	20	73	M30×2	110	65	146.5	35.5	0.6	6	65	110	0.84
SA30ET-2RS															
SA35ET-2RS	35	25	47	22	82	M36×3	140	82	181	41	0.6	6	112	146	1.4
SA40ET-2RS	40	28	53	24	92	M39×3	150	86	196	47	0.6	7	140	180	1.8
SA45ET-2RS	45	32	60	28	102	M42×3	163	92	214	52	0.6	7	180	240	2.5
SA50ET-2RS	50	35	66	31	112	M45×3	185	104	241	60	0.6	6	220	290	3.6
SA60ET-2RS	60	44	80	39	135	M52×3	210	115	277.5	75.5	1.0	6	345	450	5.7
SA70ET-2RS	70	49	92	43	160	M56×4	235	125	315	95	1.0	6	440	610	7.9
SA80ET-2RS	80	55	105	48	180	M64×4	270	140	360	105.5	1.0	6	567	750	12

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“左”, 例如: SAL20C M20×1.5 左-6g.

For left-hand thread, suffix“L” is added to bearings number and thread sign, e.g. SAL20C M20×1.5L-6g.



滑动摩擦副: 钢 / PTFE 复合材料

Sliding contact surfaces: Steel / PTFE composite material

轴承型号 Bearing number	外形尺寸 Dimensions																额定载荷 Load ratings kN		重量 Weight ≈kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	l ₇	W	d ₃	d ₄	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SIJK5C	5	8	11.112	7.5	18	M5	27	8	36	4	10	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	11	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	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	16	15	19	0.3	10	12	15	0.088
SIJK10C/B1						M10×1.25													
SIJK12C	12	16	22.23	12.5	34	M12	50	18	67	6.5	18	18	17.5	22	0.3	12	14	19	0.14
SIJK12C/B2						M12×1.25													
SIJK14C	14	19	25.4	14.5	38	M14	57	21	76	8	20	21	20	25	0.3	14	19	24	0.20
SIJK14C/B1						M14×1.5													
SIJK16C	16	21	28.58	15.5	42	M16	64	24	85	8	21	24	22	27	0.3	14	23	29	0.25
SIJK16C/B1						M16×1.5													
SIJK18C	18	23	31.75	17.5	46	M18×1.5	71	27	94	10	22.5	27	25	31	0.6	13	29	34	0.35
SIJK20C	20	25	34.93	18.5	50	M20×1.5	77	30	102	10	25	30	27.5	34	0.6	14	34	40	0.43
SIJK22C	22	28	38.1	21	56	M22×1.5	84	33	112	12	27.5	34	30	37	0.6	14	42	50	0.61
SIJK25C	25	31	42.86	23	60	M24×2	94	36	124	12	28.5	36	33.5	42	0.6	14	52	57	0.81
SIJK28C	28	35	47.63	26	66	M27×2	103	41	136	14	31.5	41	37	46	0.6	14	66	69	1.2
SIJK30C	30	37	50.8	27	70	M30×2	110	45	145	15	33	46	40	50	0.6	15	73	77	1.4

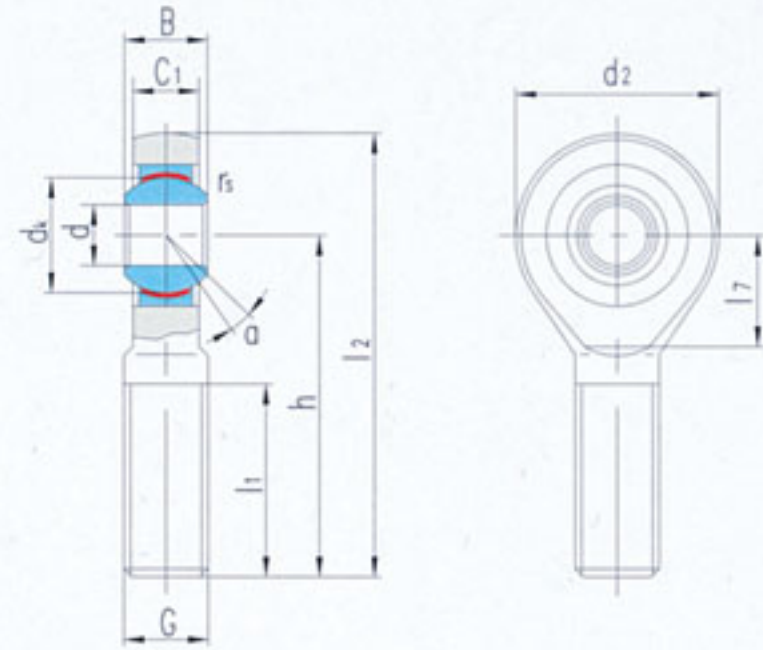
可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹, 轴承型号和螺纹标记需加“L”和“左”, 例如: SIJK20C M20×1.5 左-6H.

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SIJK20C M20×1.5L-6H.

上列产品用不锈钢制造 (杆端体和内圈), 轴承型号后面加“X”标识, 即 SIJK...C/X.

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



滑动摩擦副：钢 / PTFE 复合材料

Sliding contact surfaces: Steel / PTFE composite material

轴承 型号 Bearing number	外形尺寸 Dimensions												额定载荷 Load ratings		重量 Weight ≈kg
	d	B	dk	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
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	0.12
SAJK14C	14	19	25.4	14.5	38	M14	60	36	79	—	0.3	14	19	24	0.17
SAJK16C	16	21	28.58	15.5	42	M16	66	37	87	—	0.3	14	23	29	0.23
SAJK18C	18	23	31.75	17.5	46	M18×1.5	72	41	95	—	0.6	13	29	34	0.31
SAJK20C	20	25	34.93	18.5	50	M20×1.5	78	45	103	27.5	0.6	14	34	40	0.40
SAJK22C	22	28	38.1	21	56	M22×1.5	84	48	112	30.5	0.6	14	42	50	0.49
SAJK25C	25	31	42.86	23	60	M24×2	94	55	124	33	0.6	14	52	57	0.65
SAJK28C	28	35	47.63	26	66	M27×2	103	62	136	33	0.6	14	66	69	0.87
SAJK30C	30	37	50.8	27	70	M30×2	110	66	145	36	0.6	15	73	77	1.1

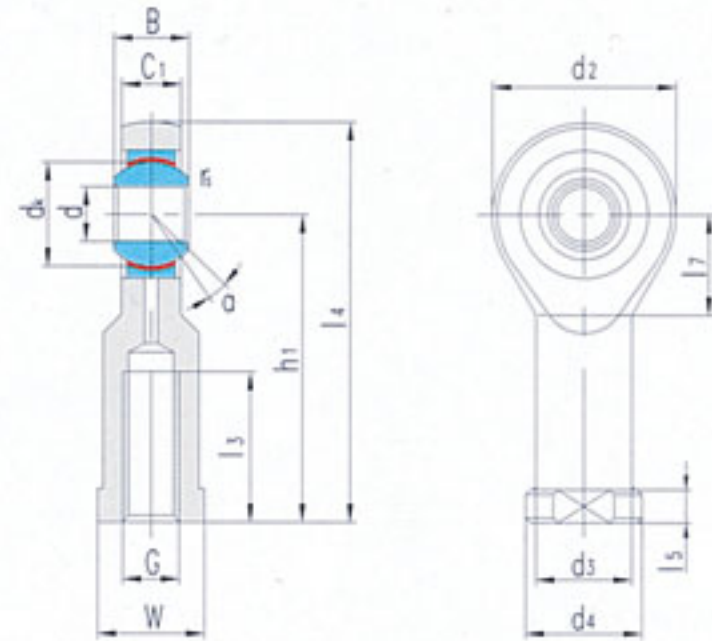
可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SALJK20C M20×1.5 左-6g。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SALJK20C M20×1.5L-6g.

上列产品用不锈钢制造（杆端体和内圈），轴承型号后面加“X”标识，即 SAJK...C/X。

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.



滑动摩擦副：钢 / PTFE 复合材料

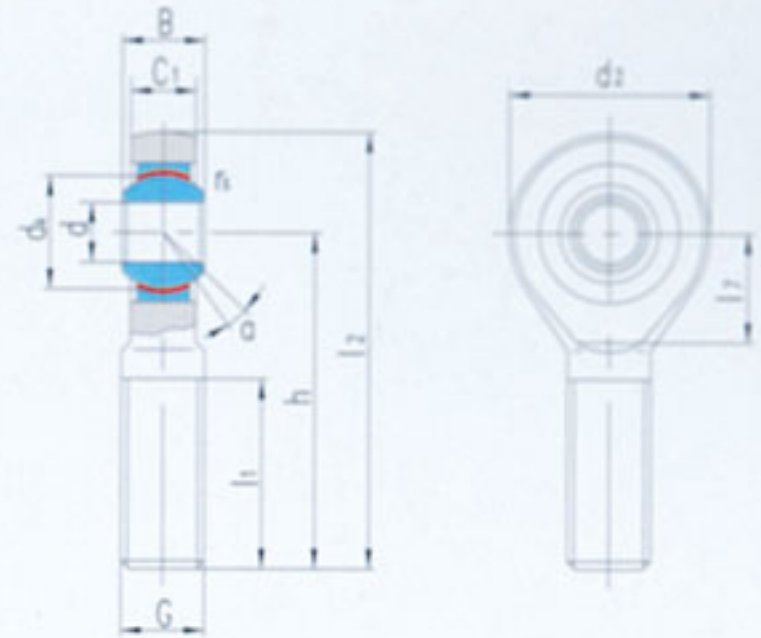
Sliding contact surfaces: Steel / PTFE composite material

轴承型号 Bearing number	外形尺寸 Dimensions																额定载荷 Load ratings		重量 Weight ≈kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₅	l ₇	W	d ₃	d ₄	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SIK5C	5	8	11.112	6	19.5	M5	30	12	39.8	5	9.5	10	10	13	0.3	4	3.6	4.6	0.024
SIK6C	6	9	12.7	7.5	21.2	M6	30	9	40.7	5	11	10	10	13	0.3	9	4.7	5.2	0.028
SIK8C	8	12	15.88	9.5	25.5	M8	36	12	48.8	5	13	13	12.5	16	0.3	12	7.6	8.2	0.053
SIK10C	10	14	19.05	11.5	31	M10	43	19	58.6	6.5	16	16	15	19	0.3	10	12	15	0.11
SIK12C	12	16	22.23	12.5	34	M12	50	23	67	6.5	18	18	17.5	22	0.3	12	14	19	0.14
SIK14C	14	19	25.4	14.5	38	M14	57	23	76	8	20	21	20	25	0.3	14	19	24	0.20
SIK16C	16	21	28.58	15.5	42	M16	64	24	85	8	21	24	22	27	0.3	14	23	29	0.25
SIK18C	18	23	31.75	17.5	46	M18×1.5	71	27	94	10	22.5	27	25	31	0.6	13	29	34	0.35
SIK20C	20	25	34.93	18.5	50	M20×1.5	77	30	102	10	25	30	27.5	34	0.6	14	34	40	0.43

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SILK20C M20×1.5 左-6H。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SILK20C M20×1.5L-6H.



滑动摩擦副：钢 / PTFE 复合材料

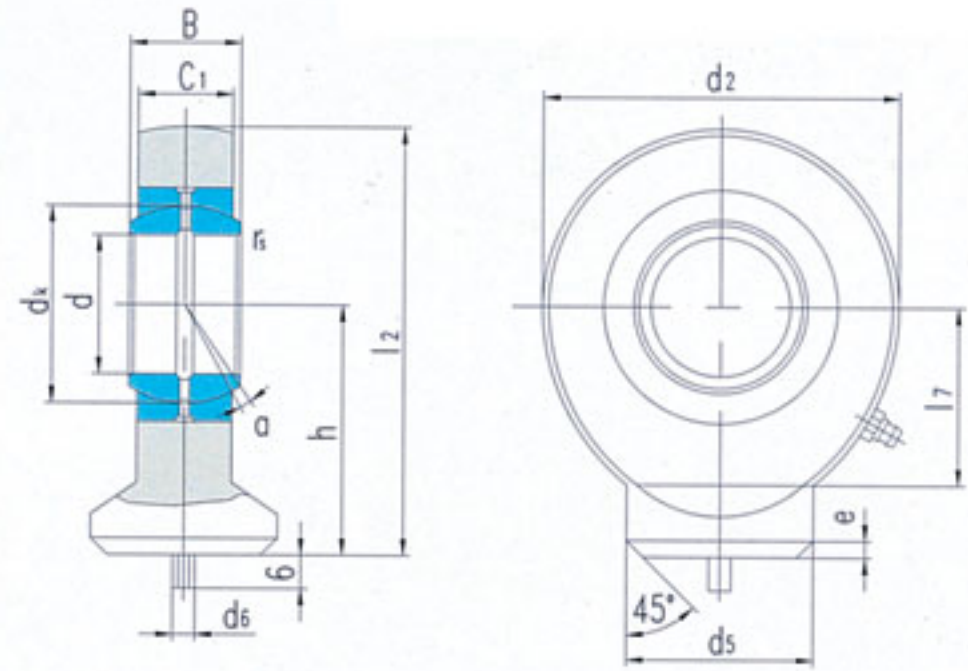
Sliding contact surfaces: Steel / PTFE composite material

轴承 型号 Bearing number	外形尺寸 Dimensions											额定载荷 Load ratings		重量 Weight ≈kg	
	d	B	dk	C ₁ max	d ₂	G 6g	h	l ₁ min	l ₂	l ₇	r _s min	α° ≈	动载荷 Dynamic		静载荷 Static
SAK5C	5	8	11.112	6	19.5	M5	33	19	42.8	—	0.3	4	3.6	3.9	0.017
SAK6C	6	9	12.7	7.5	21.2	M6	36	21	46.7	—	0.3	9	4.7	5.2	0.023
SAK8C	8	12	15.88	9.5	25.5	M8	42	25	54.8	—	0.3	12	7.6	8.2	0.047
SAK10C	10	14	19.05	11.5	31	M10	48	28	63.6	—	0.3	10	12	15	0.085
SAK12C	12	16	22.23	12.5	34	M12	54	32	71	—	0.3	12	14	19	0.12
SAK14C	14	19	25.4	14.5	38	M14	60	36	79	—	0.3	14	19	24	0.17
SAK16C	16	21	28.58	15.5	42	M16	66	37	87	—	0.3	14	23	29	0.23
SAK18C	18	23	31.75	17.5	46	M18×1.5	72	41	95	—	0.6	13	29	34	0.31
SAK20C	20	25	34.93	18.5	50	M20×1.5	78	45	103	27.5	0.6	14	34	40	0.40

可提供不同螺距或螺纹精度有特殊要求的杆端关节轴承。Can supply other rod ends with different pitch or accuracy of thread.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SALK20C M20×1.5 左-6g。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SALK20C M20×1.5L-6g.



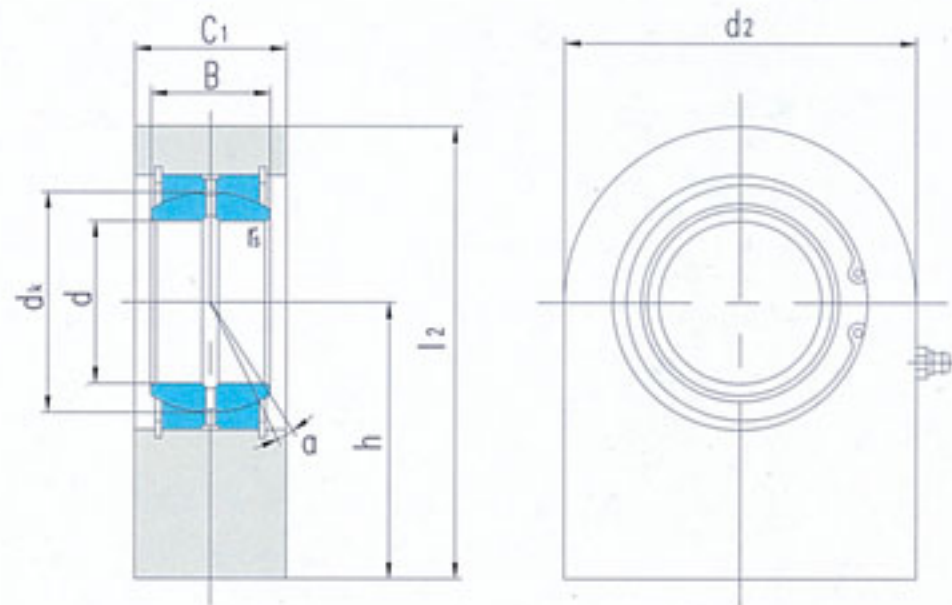
滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承型号 Bearing number	外形尺寸 Dimensions													额定载荷 Load ratings		重量 Weight ≈kg
	d	B	d _k	C ₁ max	d ₂	h	l ₂	l ₇	d ₅	d ₆	e	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SK10E ¹⁾	10	9	16	7	29	24	38.5	15	15	3	2	0.3	12	8.1	15	0.041
SK12E ¹⁾	12	10	18	8	34	27	44	18	17.5	3	2	0.3	10	10	21	0.066
SK15ES ²⁾	15	12	22	10	40	31	51	20	21	4	2.5	0.3	8	16	32	0.12
SK17ES ²⁾	17	14	25	11	46	35	58	23	24	4	2.5	0.3	10	21	40	0.19
SK20ES	20	16	29	13	53	38	64.5	27	27.5	4	2.5	0.3	9	30	54	0.26
SK25ES	25	20	35.5	17	64	45	77	32	33.5	4	3	0.6	7	48	72	0.45
SK30ES	30	22	40.7	19	73	51	87.5	37	40	4	3	0.6	6	62	95	0.67
SK35ES	35	25	47	21	82	61	102	42	47	4	3	0.6	6	79	125	1.02
SK40ES	40	28	53*	23	92	69	115	48	52	4	4	0.6	7	99	156	1.40
SK45ES	45	32	60	27	102	77	128	52	58	6	5	0.6	7	127	208	1.93
SK50ES	50	35	66	30	112	88	144	60	62	6	5	0.6	6	156	250	2.69
SK60ES	60	44	80	38	135	100	167.5	75	70	6	5	1	6	245	390	4.60
SK70ES	70	49	92	42	160	115	195	87	80	6	6	1	6	313	510	7.00
SK80ES	80	55	105	47	180	141	231	100	95	6	6	1	6	400	620	11.0

¹⁾不能润滑。Can not be relubricated.

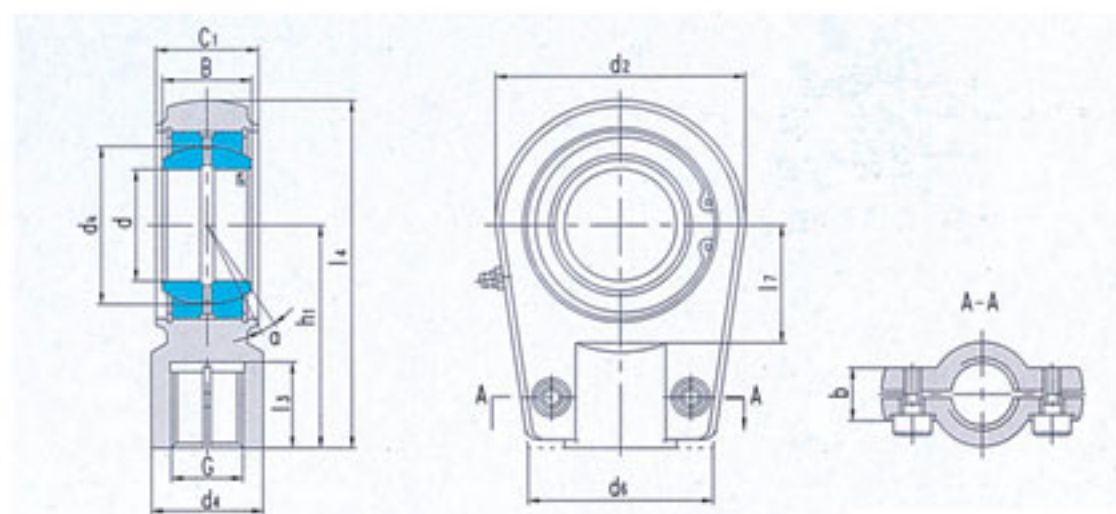
²⁾只能通过杆端眼孔润滑。Can only be relubricated through the rod end housing.



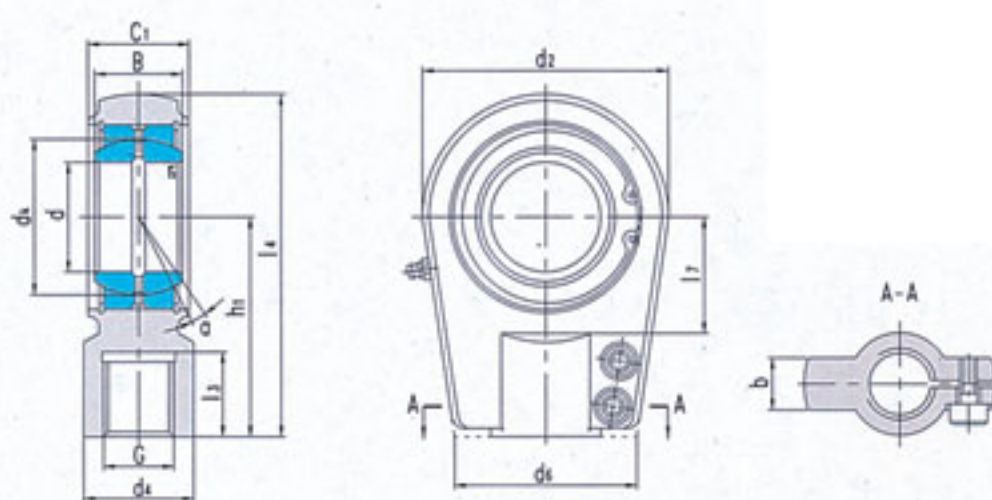
滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions mm									额定载荷 Load ratings kN		重量 Weight ≈kg
	d	B	dk	C ₁ max	d ₂	h	l ₂	r _s min	α° ≈	动载荷 Dynamic	静载荷 Static	
SF20ES	20	16	29	19	50	38	63	0.3	9	30	67	0.36
SF25ES	25	20	35.5	23	55	45	72.5	0.6	7	48	69	0.53
SF30ES	30	22	40.7	28	65	51	83.5	0.6	6	62	118	0.85
SF35ES	35	25	47	30	83	61	102.5	0.6	6	79	196	1.50
SF40ES	40	28	53	35	100	69	119	0.6	7	99	305	2.42
SF45ES	45	32	60	40	110	77	132	0.6	7	127	386	3.39
SF50ES	50	35	66	40	123	88	149.5	0.6	6	156	441	4.24
SF60ES	60	44	80	50	140	100	170	1	6	245	570	7.10
SF70ES	70	49	92	55	164	115	197	1	6	313	724	10.7
SF80ES	80	55	105	60	180	141	231	1	6	400	804	15.1
SF90ES	90	60	115	65	226	150	263	1	5	488	1340	23.4
SF100ES	100	70	130	70	250	170	295	1	7	607	1516	33.1
SF110ES	110	70	140	80	295	185	332.5	1	6	654	2340	48.5
SF120ES	120	85	160	90	360	210	390	1	6	950	3210	79.5



SIR...ES $d \leq 50\text{mm}$



SIR...ES $d \geq 60\text{mm}$

滑动摩擦副：钢 / 钢

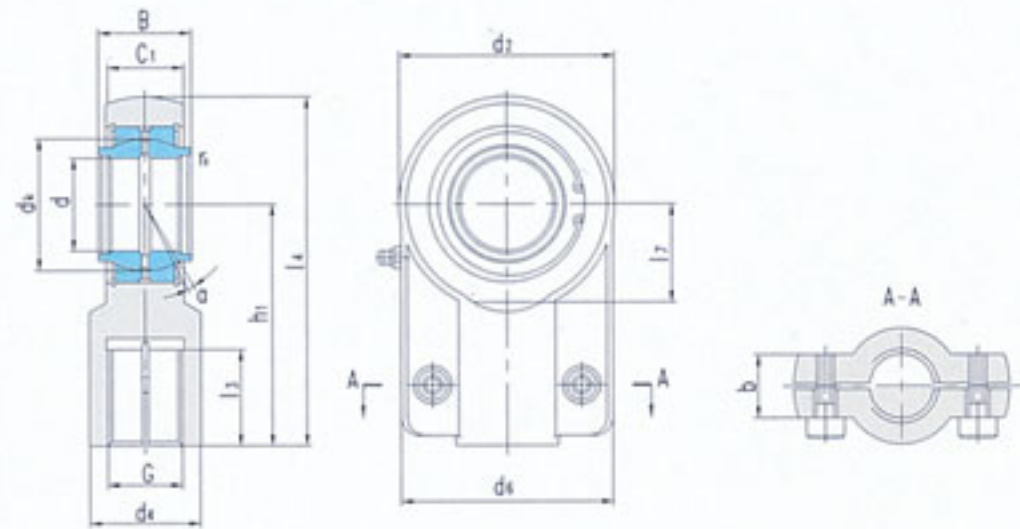
Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions															额定载荷 Load ratings		锁紧 螺钉 Screw	重量 Weight ≈kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₇	d ₄	d ₆	b	r _s	α° ≈	动载荷 Dynamic	静载荷 Static		
SIR20ES	20	16	29	19	56	M16×1.5	50	17	78	25	25	46	17	0.3	9	30	81	M8×16	0.44
SIR25ES	25	20	35.5	23	56	M16×1.5	50	17	78	25	25	46	21	0.6	7	48	72	M8×20	0.47
SIR30ES	30	22	40.7	28	64	M22×1.5	60	23	92	30	32	50	26	0.6	6	62	106	M8×25	0.77
SIR35ES	35	25	47	30	78	M28×1.5	70	29	109	38	40	66	28	0.6	6	79	153	M10×30	1.24
SIR40ES	40	28	53	35	94	M35×1.5	85	36	132	45	49	76	33	0.6	7	99	250	M10×35	2.12
SIR50ES	50	35	66	40	116	M45×1.5	105	46	163	55	61	90	37	0.6	6	156	365	M12×40	3.74
SIR60ES	60	44	80	50	130	M58×1.5	130	59	195	65	75	120	46	1	6	245	400	M16×45	6.49
SIR70ES	70	49	92	55	154	M65×1.5	150	66	227	75	86	130	51	1	6	313	540	M16×50	9.88
SIR80ES	80	55	105	60	176	M80×2	170	81	258	80	105	160	55	1	6	400	670	M20×55	14.2
SIR90ES	90	60	115	65	206	M100×2	210	101	313	90	124	180	60	1	5	488	980	M20×60	20.0
SIR100ES	100	70	130	70	231	M110×2	235	111	350.5	105	138	200	65	1	7	607	1120	M24×65	27.5
SIR110ES	110	70	140	80	266	M120×3	265	125	398	115	152	220	74	1	6	654	1700	M24×80	45.6
SIR120ES	120	85	160	90	340	M130×3	310	135	480	140	172	257	84	1	6	950	2900	M24×85	72.0

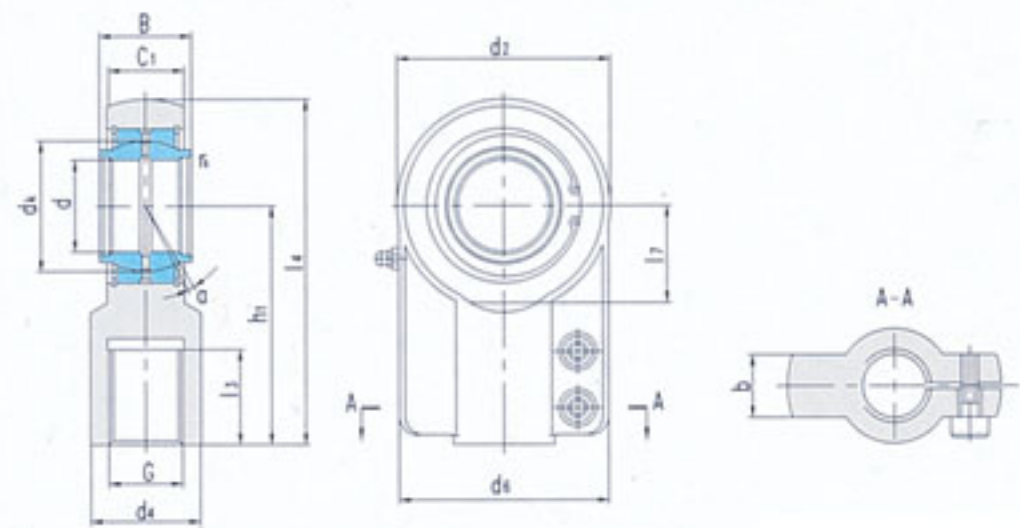
可装自润滑向心关节轴承。Can supply rod ends with maintenance-free spherical bearing.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SILR40ES M35×1.5 左-6H。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SILR40ES M35×1.5L-6H.



SIGEW...ES $d \leq 50\text{mm}$



SIGEW...ES $d \geq 63\text{mm}$

滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

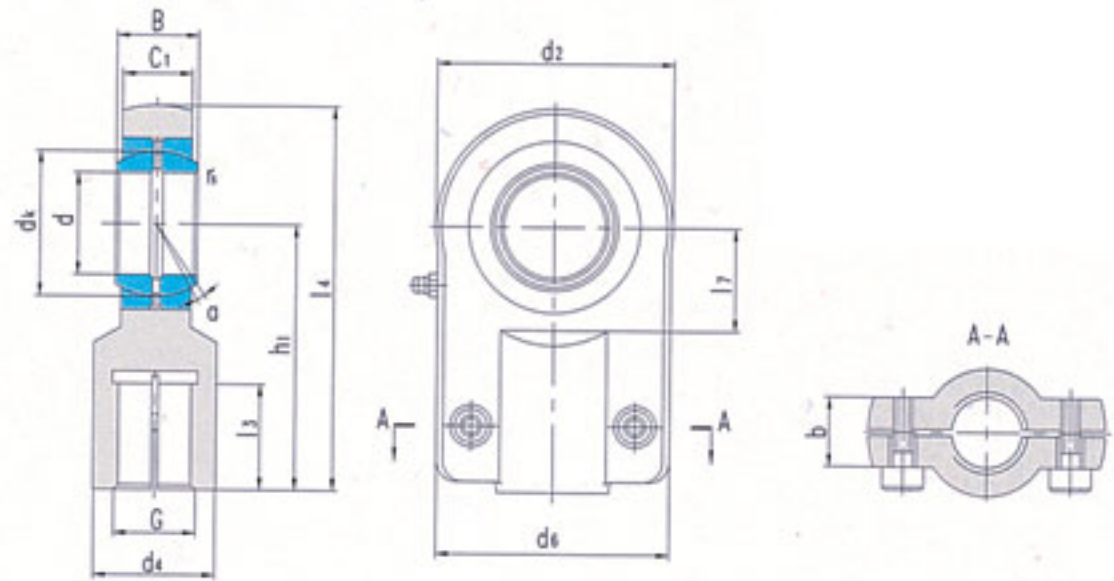
轴承 型号 Bearing number	外形尺寸 Dimensions															额定载荷 Load Ratings kN		锁紧 螺钉 Screw	重量 Weight ≈ kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₇	d ₄	d ₆	b	r _s	α° ≈	动载荷 Dynamic	静载荷 Static		
SIGEW12ES ¹⁾	12	12	18	11	32	M12×1.25	38	17	54	14	16	32	11	0.3	4	10	24.5	M5×12	0.11
SIGEW16ES	16	16	23	13	40	M14×1.5	44	19	64	20	21	40	13	0.3	4	17	36.5	M6×12	0.20
SIGEW20ES	20	20	29	17	47	M16×1.5	52	23	75.5	22	25	47	17	0.3	4	30	48	M8×20	0.35
SIGEW25ES	25	25	35.5	22	58	M20×1.5	65	29	94	27	30	54	19	0.6	4	48	78	M8×20	0.62
SIGEW32ES	32	32	43	28	71	M27×2	80	37	115.5	32	38	66	22	0.6	4	65	114	M10×25	1.15
SIGEW40ES	40	40	53	33	90	M33×2	97	46	142	41	47	80	26	0.6	4	99	204	M10×30	2.18
SIGEW50ES	50	50	66	41	109	M42×2	120	57	174.5	50	58	96	32	0.6	4	156	310	M12×35	3.96
SIGEW63ES	63	63	83	53	136	M48×2	140	64	208	62	70	114	38	1	4	253	430	M16×40	6.80
SIGEW70ES	70	70	92	57	155	M56×2	160	76	237.5	70	80	135	42	1	4	313	540	M16×40	9.60
SIGEW80ES	80	80	105	67	170	M64×3	180	86	265	78	90	148	48	1	4	400	695	M20×50	13.0
SIGEW90ES	90	90	115	72	185	M72×3	195	91	287.5	85	100	160	52	1	4	488	750	M20×60	19.1
SIGEW100ES	100	100	130	85	211	M80×3	210	96	315.5	98	110	178	62	1	4	607	1060	M24×60	25.0
SIGEW110ES	110	110	140	88	235	M90×3	235	106	352.5	105	125	190	62	1	4	654	1200	M24×60	32.0
SIGEW125ES	125	125	160	103	265	M100×3	260	113	392.5	120	135	200	72	1	4	950	1430	M24×70	46.0
SIGEW160ES	160	160	200	130	326	M125×4	310	126	473	150	165	250	82	1	4	1360	2200	M24×80	82.5
SIGEW200ES	200	200	250	162	418	M160×4	390	161	599	195	215	320	102	1	4	2120	3650	M30×100	168

¹⁾只能通过杆端眼孔润滑。Can only be relubricated through the rod end housing.

可装自润滑向心关节轴承。Can supply rod ends with maintenance-free spherical bearing.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SILGEW40ES M33×2 左-6H。

For left-hand thread, suffix “L” is added to bearing number and thread sign, e.g. SILGEW40ES M33×2L-6H.



滑动摩擦副：钢 / 钢

Sliding contact surfaces: Steel / Steel

轴承 型号 Bearing number	外形尺寸 Dimensions															额定载荷 Load Ratings kN		锁紧 螺钉 Screw	重量 Weight ≈kg
	d	B	d _K	C ₁ max	d ₂	G 6H	h ₁	l ₃ min	l ₄	l ₇	d ₄	d ₆	b	r _s	α° ≈	动载荷 Dynamic	静载荷 Static		
SIQ12E ¹⁾	12	10	18	8	35	M10×1.25	42	15	59.5	16	17	35	13	0.3	10	10	17	M6×12	0.12
SIQ16ES ²⁾	16	14	25	11	45	M12×1.25	48	17	70.5	20	21	45	13	0.3	10	21	28.5	M6×12	0.22
SIQ20ES ²⁾	20	16	29	13	55	M14×1.5	58	19	85.5	25	25	55	17	0.3	9	30	42.5	M8×16	0.43
SIQ25ES	25	20	35.5	17	65	M16×1.5	68	23	100.5	31	30	62	17	0.6	7	48	67	M8×16	0.67
SIQ30ES	30	22	40.7	19	80	M20×1.5	85	29	125	35	36	77	19	0.6	6	62	108	M10×20	1.25
SIQ40ES	40	28	53	23	100	M27×2	105	37	155	45	45	90	23	0.6	7	99	156	M10×25	2.16
SIQ50ES	50	35	66	30	120	M33×2	130	46	190	58	55	105	30	0.6	6	156	245	M12×30	3.90
SIQ60ES	60	44	80	38	160	M42×2	150	57	230	68	68	134	38	1	6	245	380	M16×40	7.15
SIQ80ES	80	55	105	47	205	M48×2	185	64	287.5	82	90	156	47	1	6	400	585	M20×50	15.0
SIQ100ES	100	70	130	55	240	M64×3	240	86	360	116	110	190	55	1	7	607	865	M24×60	27.3

¹⁾不能润滑。Can not be relubricated.

²⁾只能通过杆端眼孔润滑。Can only be relubricated through the rod end housing.

可装自润滑向心关节轴承。Can supply rod ends with maintenance-free spherical bearing.

若是左旋螺纹，轴承型号和螺纹标记需加“L”和“左”，例如：SILQ40ES M27×2 左-6H。

For left-hand thread, suffix “L” is added to bearings number and thread sign, e.g. SILQ40ES M27×2L-6H.



球头杆端关节轴承由带有内球面的球头座和带有外球面的球头杆构成一对滑动摩擦副,球头座由特殊的锌基合金铸成,球头杆由钢球和杆精密焊接而成,杆螺纹有左、右旋之分,具有自调心、耐磨、安装更为简便的特点。SQ...-RS 和 SQZ...-RS 球头座为附有带内螺纹的轴向伸出杆,螺纹有左、右旋之分。

使用温度范围: $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$ 。

Ball joint rod ends have a ball joint housing with a sphered convex inside surface and a ball joint shank with a correspondingly sphered but concave outside surface. Ball joint housing is made of zinc base alloy, ball joint shank is made of a steel ball and a stud which is joined by precision welding, stud with left or right-hand male thread. It has characteristics of self-aligning, wear-resistance and easy mounting. Ball joint housing of series SQ...-Rs and SQZ...-RS is an axial shank with left or right-hand female thread.

Permissible operating temperature range: $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$.

球头杆端关节轴承公差

Tolerances for ball joint rod ends

球头杆或座 Shank or housing of ball joint

d mm		Δd_{mp} μm		Δh_{1s} μm	
超过 over	到 incl.	max	min	max	min
—	6	0	-30	+800	-1200
6	10	0	-36	+800	-1200
10	18	0	-43	+800	-1200
18	30	0	-52	+800	-1200

球头座圈 Rings of ball joint housing

D mm		ΔD_{mp} μm		ΔC_s μm	
超过 over	到 incl.	max	min	max	min
10	18	0	-27	+100	-100
18	30	0	-33	+100	-100
30	50	0	-39	+100	-100

尺寸和公差符号说明详见 P17 Details of dimension and tolerance symbols see page 17

球头杆端关节轴承径向游隙

Radial internal clearance of ball joint rod ends

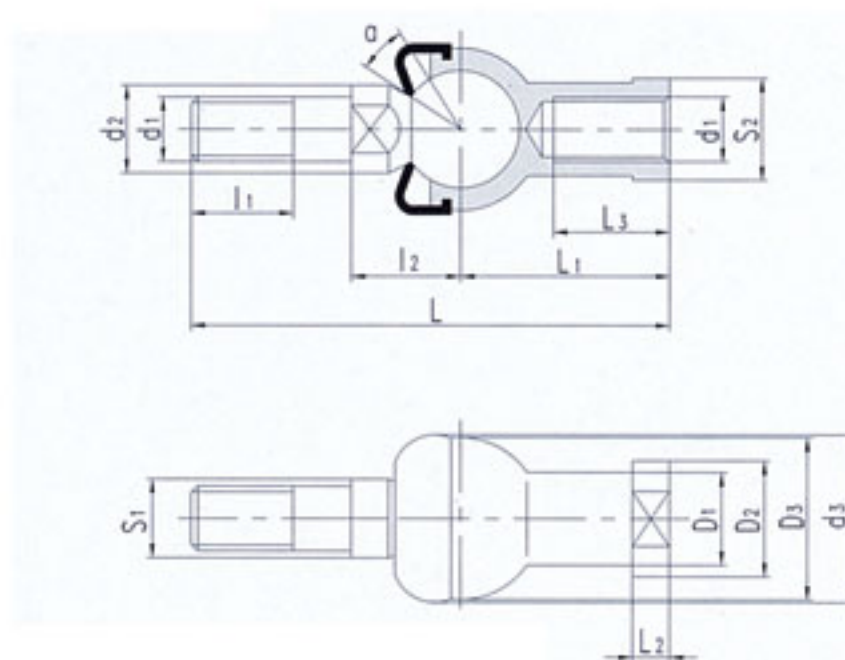
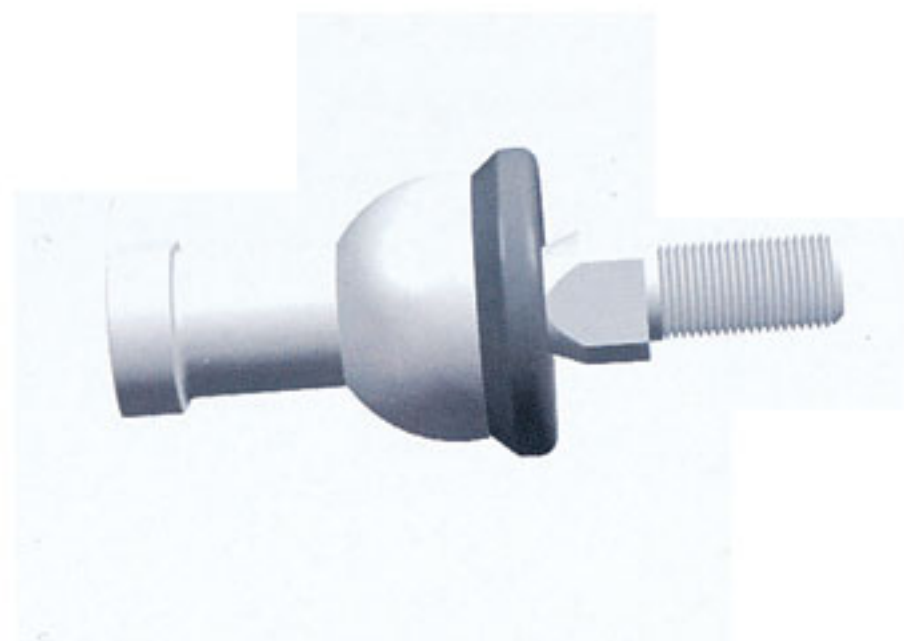
类型 Type	基本组 Group normal μm	
	min	max
SQD	20	30
SQZ-RS	—	30
SQ-RS	20	60

球头杆端关节轴承配合

Fits of ball joint rod ends

螺纹 Thread

外螺纹 Male thread	内螺纹 Female thread
6g	6H

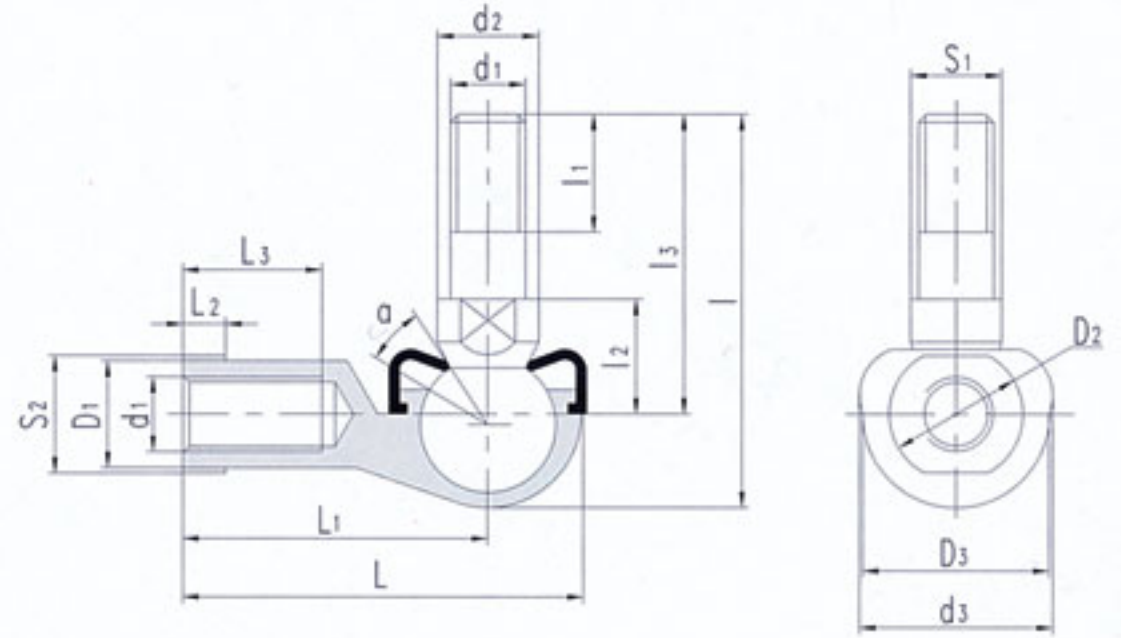


滑动摩擦副：钢 / 锌基合金

Sliding contact surfaces: Steel / Zinc base alloy

轴承 型号 Bearing number	外形尺寸 Dimensions															额定静载荷 Static load ratings kN	重量 Weight ≈kg
	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	M5	9	19	8	11	7	46	24	4	12	9	11	17	9	15	2.8	0.025
SQZ6-RS	M6	10	20	11	12.2	8	55.2	28	5	15	10	13	20	11	15	3.7	0.041
SQZ8-RS	M8	12	24	12	16	10	65	32	5	16	12.5	16	24	14	15	5.8	0.075
SQZ10-RS	M10×1.25	14	30	15	19.5	11	74.5	35	6.5	18	15	19	28	17	15	8.4	0.12
SQZ12-RS	M12×1.25	17	32	17	21	15	84	40	6.5	20	17.5	22	32	19	15	11	0.18
SQZ14-RS	M14×1.5	19	38	22	23.5	17	103	45	8	25	20	25	36	22	11	15	0.27
SQZ16-RS	M16×1.5	22	44	23	25.5	19	112	50	8	27	22	27	40	22	11	15	0.36
SQZ18-RS	M18×1.5	23	45	25	31	20	130.5	58	10	32	25	31	45	27	11	19	0.54
SQZ20-RS	M20×1.5	27	50	25	29	24	133	63	10	38	27.5	34	45	30	7.5	19	0.57
SQZ22-RS	M22×1.5	27	52	26	33	24	145	70	12	43	30	37	50	32	7.5	23	0.76

球头座杆螺纹也可为左旋，若是左旋，轴承型号和螺纹标记需加“L”和“左”，例如：SQZL5-RS M5左-6H。
The shank of ball joint housing may be left-hand thread, for left-hand thread, suffix“L” is added to bearing number and thread sign, e.g. SQZL5-RS M5L-6H.

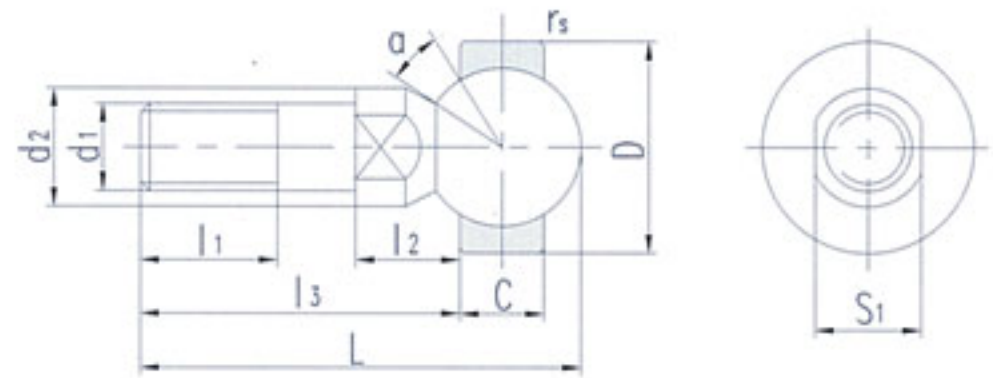
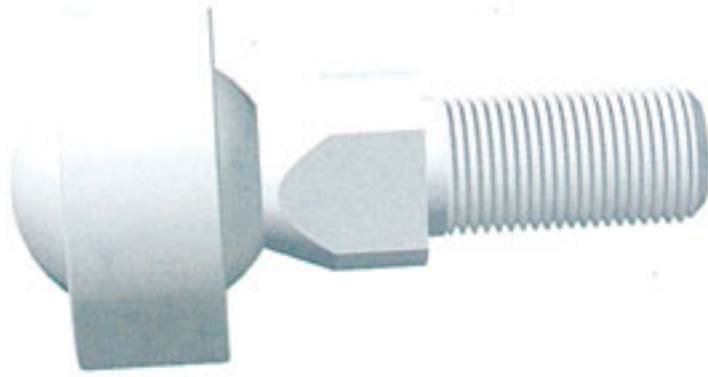


滑动摩擦副：钢 / 锌基合金

Sliding contact surfaces: Steel / Zinc base alloy

轴承 型号 Bearing number	外形尺寸 Dimensions																	额定静载荷 Static load ratings kN	重量 Weight ≈kg
	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	M5	9	19	29	8	10	21	7	35	27	4	14	9	11	16	9	25	2.2	0.026
SQ6-RS	M6	10	20	35.5	11	11	26	8	40	30	5	14	10	13	19	11	25	3.5	0.039
SQ8-RS	M8	12	24	42.5	12	14	31	10	48	36	5	17	12.5	16	23	14	25	6.6	0.068
SQ10-RS	M10×1.25	14	30	50.5	15	17	37	11	57	43	6.5	21	15	19	27	17	25	10	0.112
SQ12-RS	M12×1.25	17	32	57.5	17	19	42	15	66	50	6.5	25	17.5	22	31	19	25	16	0.164
SQ14-RS	M14×1.5	19	38	73.5	22	21.5	56	17	75	57	8	26	20	25	35	22	25	19	0.254
SQ16-RS	M16×1.5	22	44	79.5	23	23.5	60	19	84	64	8	32	22	27	39	22	20	26	0.336
SQ18-RS	M18×1.5	23	45	90	25	26.5	68	20	93	71	10	34	25	31	44	27	20	33	0.464
SQ20-RS	M20×1.5	27	50	90	25	27	68	24	99	77	10	35	27.5	34	44	30	20	45	0.538
SQ22-RS	M22×1.5	27	52	95	26	28	70	24	109	84	12	41	30	37	50	32	16	48	0.713

球头座杆螺纹也可为左旋，若是左旋，轴承型号和螺纹标记需加“L”和“左”，例如：SQL5-RS M5 左-6H。
The shank of ball joint housing may be left-hand thread, for left-hand thread, suffix “L” is added to bearing number and thread sign, e.g. SQL5-RS M5L-6H.



滑动摩擦副: 钢 / 锌基合金

Sliding contact surfaces: Steel / Zinc base alloy

轴承 型号 Bearing number	外形尺寸 Dimensions											额定静载荷 Static load ratings kN	重量 Weight ≈kg
	d ₁	d ₂	l ₁	l ₂	l ₃	L	S ₁	C	D	r _s min	α° ≈		
SQD5	M5	9	8	8	19	27.5	7	6	16	0.3	25	2	0.014
SQD6	M6	10	11	8.8	23.8	33.5	8	6.75	18	0.3	25	3.2	0.021
SQD8	M8	12	12	11.6	28.6	41	10	9	22	0.3	25	5.7	0.042
SQD10	M10×1.25	14	15	14.2	34.2	49	11	10.5	26	0.3	25	9.2	0.067
SQD12	M12×1.25	17	17	15.1	38.1	55.1	15	12	30	0.5	25	14	0.108
SQD14	M14×1.5	19	22	16.8	51.3	70.7	17	13.5	34	0.5	20	19	0.167
SQD16	M16×1.5	22	23	18	54.5	76.3	19	15	38	0.5	20	26	0.238