为您精心提供360° 完美旋转解决方案

providing solution to 360 degree rotation wiring

产品选型手册

Product Selection Manual



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传统集电环系列
TRADITIONAL SLIP RING SERIES



传统集电环系列
TRADITIONAL SLIP RING

集电环概述 General Introduction

集电环系列同步电机和异步电动机等采用集电环的电机，比较广泛地用于产业部门，而且，多数是在各种苛刻条件下运行的。这些电机虽然没有直流电机那样的换向作用，但与换向器一样，也出现集电环或 电刷的异常磨损，电刷振动以及产生火花等弊病。特别从电刷材质来看，集电环用电刷不仅使用石墨电刷，而且为了提高电刷的电流密度，有时也使用金属石墨电刷，所以，还必须考虑异常残余膨胀等因素。即使对于汽轮发电机那样的高速电机或在全封闭气体介质和氢气介质中运行的电机，问题也不少。

集电环的材质要求机械强度大，并是电的良导体，还要具有耐腐蚀性，在与电刷滑动接触时，必须具备耐磨性和稳定的滑动接触特性。一般，钢质集电环的耐磨性好，机械强度大，因此大多用于因极性引起集电环磨损差较大的同步电机上。

Collector ring series of synchronous and asynchronous motor by using the set ring of electric motor, widely used in industrial department, and, most are operating in the harsh conditions under various. These motors although no reversing effect of DC motor commutator that, but as also appears abnormal wear brush vibration collector ring or brush and sparks ills. Especially from the brush material, collector ring brush not only the use of gra–phite brush, and in order to improve the current density of the brush, sometimes the use of metal graphite brush, so must also consider the factors of abnormal residual expansion. Even the high–speed motor for turbo generator that or running in full closed gas medium and hydrogen medium motor, many questions.

The collector ring material requirements of high mechanical strength, and is a good conductor of electricity, but also has corrosion resistance, in sliding contact with the electric brush sliding contact, must have the characteristics of wear resistance and stability. Generally, the wear resistance of the steel set electric ring, high mechanical strength and therefore are mostly used for collecting ring wear synchronous motor on the larger caused by polarity.

集电环应用 Applicalon

钢质集电环的耐磨性好，机械强度大，因此大多用于因极性引起集电环磨损差较大的同步电机上。钢可以加工成复杂的结构，它是一种容易得到而又价廉物美的材料，所以，广泛用于包括圆周速度较低的水轮发电机在内的同步电机。对于像汽轮发电机那样，主要强调高圆周速度下机械强度和耐磨性的集电环，有时也使用锻钢。另外，要求耐腐蚀性时，可使用不锈钢，但不锈钢的滑动特性不稳定，与电刷组合不合适往往使电刷产生跳动，容易造成电刷温升过高或异常磨损，所以使用时必须倍加注意。青铜铸件等铜质集电环与钢质集电环相比，它的滑动特性好，所以用途很广，但当含有大量低熔点铅时，因通电点的发热而产生脱铅现象，容易造成集电环磨损或电刷异常磨损。

集电环与电刷的配合上，当电刷的研磨性过强而集电环的材质过软时，往往在集电环上发生相当于电刷宽度的阶梯磨损。尤其是高温低湿的全封闭式电机，更容易引起电刷或集电环的过大磨损。重象伤痕是这样形成的，一开始只有非常小的伤痕，电刷在这些部位集电不良而产生火花。一旦产生火花，伤痕就逐渐恶化扩大起来，最后形成与电刷滑动接触面的尺寸同样大小的伤痕。因而，集电环用电刷即使产生非常小的火花，也必须予以注意。

为了预防在钢质集电环上发生严重的重象伤痕，在电机长期停转时应将电刷提起。为了改善并联电刷的电流分布，可移动集电环滑动接触面的通电点。为了获得良好的滑动特性，在集电环上开螺旋状的斜槽是有效的。

The wear resistance of the steel set electric ring, high mechanical strength, therefore, are mostly used for collecting ring wear synchronous motor on the larger caused by polarity. Processed into complex structural steel can be, it is a kind of easy to get and Cheap materials, therefore, widely used in synchronous motor includes hydro generator with low speed, the circumferential. Like that for turbo generator, the main emphasis of the mechanical strength and wear resistance of high circumferential velocity

Collecting ring, sometimes the use of forged steel. In addition, corrosion resistance requirement, can use stainless steel, but the sliding properties of stainless steel is not stable, and brush combination is not suitable often make brush bouncing, easy to cause the brush Temperature is too high or abnormal wear, so when in use must pay more attention. Bronze casting copper collector ring and steel collector ring compared, its good sliding properties, so use is very broad, but when containing a large amount of low melting point leadArising from the phenomenon of lead, because of the heat electricity point, easy to cause the collector ring wear or brush abnormal wear.With the collector ring and brush, when the abrasive brush too strong and collector ring material is too soft, often occur in the collector ring ladder is equivalent to the width of the brush wear. Especially the full closed high temperature and low humidity

Motor, more likely to cause the brush or set of large electrical wear ring too. Heavy as the scar is formed in this way, only the beginning of very small scars, brush in these parts collector adverse and spark. Once the spark,The scar will deteriorate gradually expanded, and finally the formation and brush sliding contact surface size of the same size scars. Therefore, the collector ring brush even very small spark, also must pay attention to.

In order to prevent the collector ring on the steel on the occurrence of serious weight like scars, stop the rotation of the motor when in long–term brush should be filed. In order to improve the current distribution of parallel brush, mobile collector ring sliding contact surface electricity point.In order to obtain a good sliding properties, open spiral in the collector ring flume is effective.

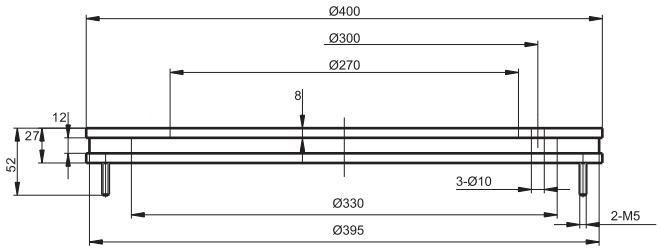
集电环型号说明 Mode Explanation

SR S 15 / F / K / H 30 30 – 2 T / N / S / W

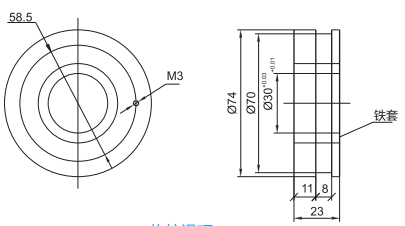
- W — 带线 wire
- S — 扁铜脚 copper sheet
- N — 裸铜杆 bare(copper rod)
- T — 螺纹 thread(studs)
- 2 — 环数 the number of rings
- 30 — 高度 height
- 30 — 外径 outer diameter
- H — 打孔 hole
- K — 键槽 Key
- F — 铁芯 iron core
- 15 — 内径 inner diameter
- S — 标准的 standard
- SR — 集电环总称 slip ring

1环系列集电环 One–Ring Slip Ring

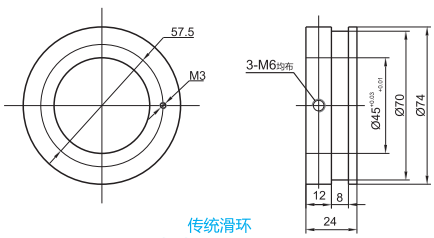
产品外形尺寸图
Outline Dimension



传统滑环
SRS330H40027-1T



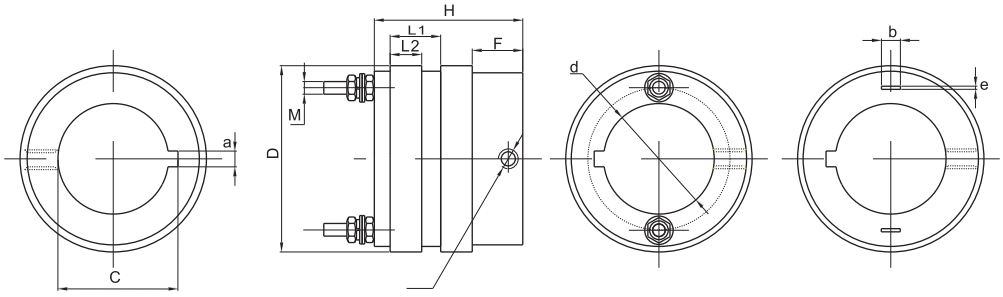
传统滑环
SRS30F7423-1T



传统滑环
SRS45H7424-1T

2环系列集电环Two-Ring Slip Ring

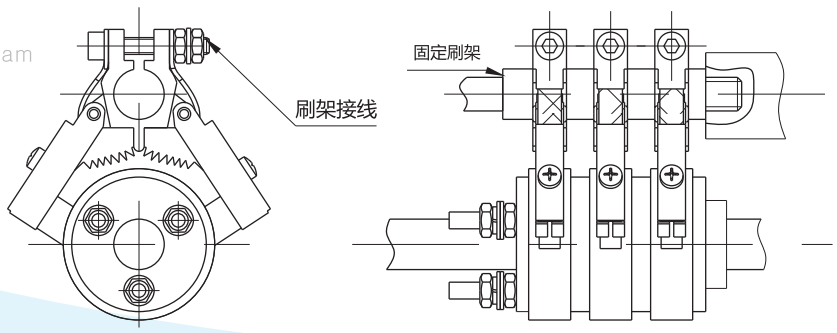
产品外形尺寸图 Outline Dimension



产品规格Product Specifications

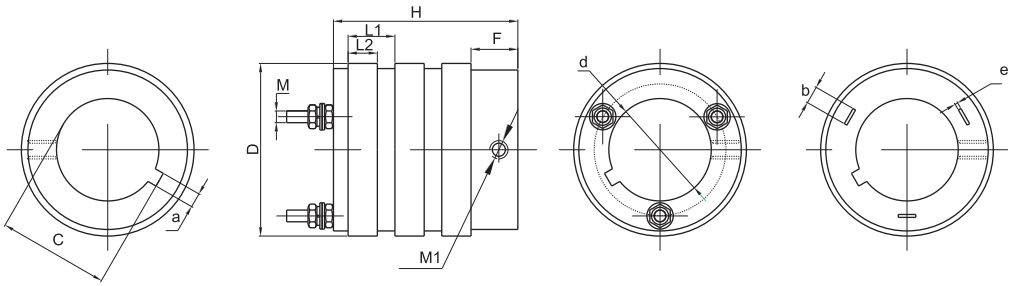
Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS153030-2N	15	30	30	10.0	12	Φ2	3	/	/	/	/	/
SRS154565-2T	15	45	65	16.0	20	M4	20	/	/	/	/	/
SRS163029-2N	16	30	29	10.5	14	Φ2	2	/	/	/	/	/
SRS17K4528-2T	17	45	28	8.0	13	M4	3	/	/	5	20	/
SRS17H5034-2T	17	50	34	7.0	12	M4	10	/	/	/	/	2-M5
SRS17H6045-2T	17	60	45	9.5	16	M4	16	/	/	/	/	2-M6
SRS18KH5034-2T	18	50	34	9.5	16	M4	16	/	/	6	21	2-M6
SRS18KH6045-2T	18	60	45	9.5	16	M4	16	/	/	6	21	2-M6
SRS20H5034-2T	20	50	34	7.0	12	M4	10	/	/	/	/	2-M5
SRS20H5834-2T	20	58	34	9.5	16	M4	6	/	/	6	23	/
SRS20K6034-2T	20	60	34	9.5	16	M4	6	/	/	6	23	/
SRS20KH6045-2T	20	60	45	9.5	16	M4	16	/	/	6	23	2-M8
SRS254565-2T	25	45	65	16.0	20	M4	20	/	/	/	/	/
SRS25K6034-2T	25	60	34	9.0	16	M4	5	/	/	8	29	/
SRS25K7040-2S	25	70	40	9.0	16	/	8	8	2	8	29	/
SRS26K8050-2T	26	80	50	12.0	22	M5	6	/	/	8	29.8	/
SRS28K6045-2T	28	60	45	9.0	16	M4	16	/	/	8	32	/
SRS306034-2T	30	60	34	9.5	16	M4	6	/	/	/	/	/
SRS30K7040-2S	30	70	40	9.0	16	/	7	8	2	8	34	/
SRS35K7950-2S	35	79	50	12.0	23	/	8	10	2	10	40	/
SRS40K7040-2S	40	70	40	9.0	16	/	8	8	2	8	44	/
SRS408050-2NS	40	80	50	10.0	32	5	7	10	2	/	/	/
SRS409038-2T	40	90	38	9.0	14	M4	8	/	/	/	/	/
SRS40H7841-2N	40	78	41	9.0	13	4	4	/	/	/	/	2-M6
SRS428048-2T	42	80	48	11.0	21	M4	11	/	/	/	/	/
SRS4410844-2T	44	108	44	9.0	12	M4	3	/	/	/	/	/
SRS509038-2T	50	90	38	9.0	14	M4	8	/	/	/	/	/
SRS5010050-2T	50	100	50	13.0	24	M6	5	/	/	/	/	/
SRS5010850-2T	50	108	50	10.0	22	M6	8	/	/	/	/	/

产品安装示意图
Installation Schematic Diagram



3环系列集电环 Three-Ring Slip Ring

产品外形尺寸图 Outline Dimension

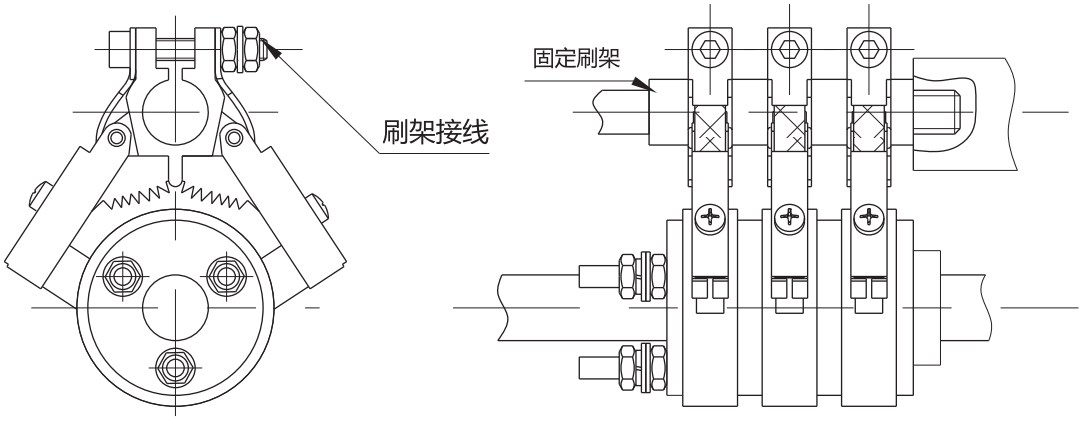


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS83044-3N	8	30	44	2.0	15	Ø2	2	/	/	/	/	/
SRS123645-3T	12	36	45	10.0	15	M4	2	/	/	/	/	/
SRS183542-3N	18	35	42	8.0	13	Ø2	4	/	/	/	/	/
SRS203840-3N	20	38	40	10.0	14	Ø2	2	/	/	/	/	/
SRS20K3845-3T	20	38	45	10.0	16	M4	5	/	/	6	23	/
SRS255454-3T	25	54	54	10.0	16	M4	5	/	/	/	/	/
SRS25K7570-3S	25	75	70	12.0	22	/	6	10	2	8	29	/
SRS28K6874-3S	28	68	74	17.5	23	/	6	10	2	5	31	/
SRS32K7745-3T	32	77	45	8.0	12	M4	4	/	/	/	/	/
SRS33.5K12947-3T	33.5	129	47	8.0	12	M4	3	/	/	8	37.5	/
SRS35K5445-3W	35	54	45	10.0	15	2平方线	4	/	/	6	38	/
SRS356059-3T	35	60	59	9.0	15	M4	5	/	/	/	/	/
SRS35F7049-3N	35	70	49	铁芯9	12/8	3	12	/	/	/	/	/
SRS35K8371-3T	35	83	71	10.0	18	M4	3	/	/	8	37.5	/
SRS40K6270-3N	40	62	70	14.0	24	Ø2.5	4	/	/	/	/	/
SRS40K8090-3S	40	80	90	12.0	25	/	18	10	2	10	44	/
SRS40K9038-3T	40	90	38	8.0	11	M4	4	/	/	7	44.5	/
SRS417737-3T	41	77	37	8.0	12	M4	3	/	/	/	/	/
SRS427060-3S	42	70	60	11.0	20	/	5	5	2	/	/	/
SRS45H6761-3S	45	67	61	10.0	20	/	/	5	2	/	/	2-M6
SRS4513945-3T	45	129	45	8.0	12	M4	4	/	/	/	/	/
SRS45K7570-3S	45	75	70	12.0	22	/	7	10	2	10	49	/
SRS45K7869-3S	45	78	69	12.0	21.5	/	7	10	2	10	49	/
SRS5012954-3T	50	129	54	8.0	12	M4	4	/	/	/	/	/
SRS507047-3S	50	70	47	9.0	12.5	/	7	5	2	/	/	/
SRS50K9077-3S	50	90	77	15.0	27	/	5	14	2	10	55	/
SRS50K90110-3T	50	90	110	8.0	12	M4	30	/	/	8	54	/
SRS52K9276-3S	52	92	76	14.0	27	/	3.5	14	2.5	10	4	/
SRS5410840-3W	54	108	40	7.5	11.5	线	3	/	/	/	/	/
SRS55K10090-3S	55	100	90	13.5/9	26	/	10	14	2	10	4.5	/
SRS2713054-3N	57	130	115	12.0	30	6	21	/	/	/	/	/

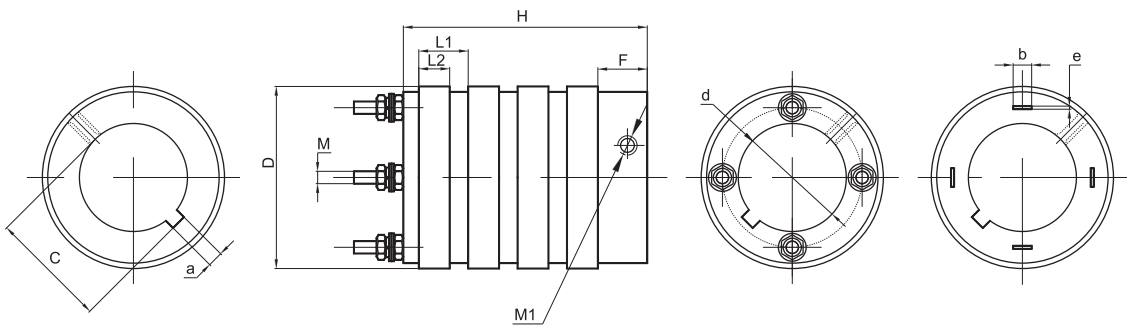
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SRS6013054-3T	60	130	54	8.0	12	M4	/	/	/	/	/	/
SRS60107100-3S	60	107	100	14.0	34	/	/	10	2	/	/	/
SRS6010866-3T	60	108	66	8.0	14	M4	4	/	/	/	/	/
SRS60K10885-3S	60	108	85	15.0	25	/	8	12	2	12	65	/
SRS6011572-3T	60	115	72	10.0	19	M4	15	/	/	/	/	/
SRS6012043-3T	60	120	43	9.0	3	M4	3	/	/	/	/	/
SRS60138125-3S	60	138	125	18.0	36	/	11	20	3	/	/	/
SRS60138125-3S	63	108	43	10.0	13	M4	37	/	/	/	/	/
SRS6310843-3T	63	120	76	10.0	20	/	10	14	2.5	14	68.5	/
SRS65K12076-3S	65	108	100	13.6	30	/	10	14	2.5	14	3.5	/
SRS65K110100-3S	65	110	100	14.0	28	/	11	16	2.5	14	5	/
SRS7012043-3T	70	120	43	10.0	13	M4	3	/	/	/	/	/
SRS70K120100-3S	70	120	100	19.0	31	/	11	20	2	10	74	/
SRS70H10875-3N	70	108	75	10.0	20	4	8	/	/	/	/	2-M8
SRS75K125110-3S	75	125	110	15.0	31	/	9	14	2	14	79	/
SRS75140124-3S	75	140	124	18.0	36	/	11	20	3	/	/	/
SRS84K130100-3S	84	130	100	20.0	32	/	9	15	2	12	88.5	/
SRS85K125127-3S	85	125	127	18.0	36	/	10.5	6	2	6	101	/
SRS85K137125-3S	85	137	125	18.0	36	/	16	16	2	18	91	/
SRS90K160140-3S	90	160	140	20.0	40	/	15	20	2	18	97	/
SRS100K180140-3S	100	180	140	22.0	42	/	20	20	2	14	105.5	/
SRS23029572-3N	230	295	72	10.0	16	5	22	/	/	/	/	/

产品安装示意图
Installation Schematic Diagram



4环系列集电环 Four-Ring Slip Ring

产品外形尺寸图Outline Dimension



产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS17K5055-4T	17	50	55	8.0	13	M4	4	/	/	5	20	/
SRS17H5058-4T	17	50	58	7.0	13	M4	10	/	/	/	/	2-M5
SRS175064-4N	17	50	64	9.0	16	5	2	/	/	/	/	/
SRS17KH6075-4T	17	60	75	9.0	16	M4	16	/	/	6	20	2-M6
SRS18KH5060-4T	18	50	60	7.0	13	M4	10	/	/	6	21	2-M5
SRS20K5056-4T	20	50	56	7.0	12.5	M4	10	/	/	6	23	/
SRS20H5059-4T	20	50	59	7.0	12.5	M4	10	/	/	/	/	2-M5
SRS20H5058-4N	20	54	58	3.7/8.6	/	4/3	/	/	/	/	/	2-M5
SRS20H5573-4T	20	55	73	10.0	14	M4	15	/	/	/	/	2-M6
SRS20KH6066-4T	20	60	66	9.0	16	M4	6	/	/	8	24	4-M4
SRS206565-4N	20	65	65	10.0	15	5	5	/	/	/	/	/
SRS25H5059-4T	25	50	59	7.0	12.5	M4	10	/	/	/	/	2-M5
SRS25H5458-4T	25	54	58	8.6/3.7	/	M4/M3	/	/	/	/	/	2-M5
SRS25H5474-4T	25	54	74	10.0	14	M4	15	/	/	/	/	2-M6
SRS206066-4T	20	60	66	9.0	16	M4	6	/	/	/	/	/
SRS25K6075-4T	25	60	75	9.0	16	M4	14	/	/	8	29	/
SRS2565102-4T	25	65	102	8.0	13	M4	21	/	/	/	/	/
SRS25H6775-4T	25	67	75	10.0	15	M4	16	/	/	/	/	2-M6
SRS25K7090-4S	25	70	90	9.0	16	/	21	8	2	8	29	/
SRS25K7090-4T	25	70	96	10.0	21.5	M4	12	/	/	8	29	2-M8
SRS26K7994-4T	26	79	94	12.0	22	M5	6	/	/	8	31.8	/
SRS28H6066-4T	28	60	66	9.0	16	M4	6	/	/	/	/	4-M4
SRS30H5574-4T	30	55	74	10.0	14	M4	15	/	/	/	/	2-M6
SRS306066-4T	30	60	66	9.0	16	M4	5	/	/	/	/	/
SRS30H6075-4T	30	60	75	9.0	16	M4	14	/	/	/	/	2-M8
SRS30K8080-4N	30	80	80	11.0	18	6	5	/	/	8	33.5	/
SRS326050-4N	32	60	50	8.0	12	4	3	/	/	/	/	/
SRS32H6066-4T	32	60	66	9.0	16	M4	5	/	/	/	/	4-M4
SRS32H6075-4T	32	60	75	9.0	16	M4	14	/	/	/	/	2-M8
SRS326575-4T	32	65	75	10.0	15	M4	15	/	/	/	/	/
SRS35H6080-4T	35	60	80	10.0	16	M4	16	/	/	/	/	2-M8
SRS357070-4S	35	70	70	9.0	16	/	6	8	2	8	39	/
SRS358080-4T	35	80	80	11.0	20	M4	5	/	/	/	/	/
SRS359048-4T	35	90	48	8.0	11	M4	4	/	/	/	/	/
SRS408080-4T	40	80	80	11.5	20	M4	5	/	/	/	/	/
SRS428076-4N	42	80	76	11.5	20	4	6	/	/	/	/	/
SRS4512956-4T	45	129	56	8.0	13	M4	4	/	/	/	/	/
SRS45K8090-4S	45	80	90	12.0	21	/	7	10	2	10	49	/
SRS4513067-4N	45	130	67	8.0	12	4	5	/	/	/	/	/

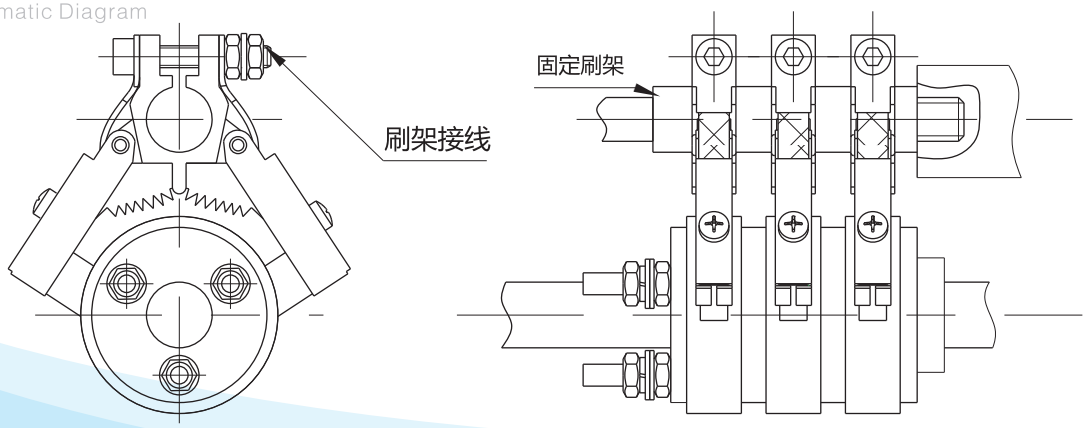
传统集电环系列

TRADITIONAL SLIP RING

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS45K145195-4S	45	145	195	17.0	72	/	27	15	2	12	49	/
SRS48K103120-4T	48	103	120	15.0	25	M6	10	/	/	12	6	/
SRS508090-4S	50	80	90	2.0	21	/	7	10	2	/	/	/
SRS5010075-4T	50	100	75	10.0	15	M4	5	/	/	/	/	/
SRS50100135-4S	50	130	135	15.0	33	/	10	20	3	/	/	/
SRS50140131-4N	50	140	131	16.0	29	8	15	/	/	/	/	/
SRS55K100118-4S	55	100	118	13.5/9	27	/	12	10	2	8	59	/
SRS55K120110-4S	55	120	110	13.0	27	/	9	14	2	12	5	/
SRS60K9048-4T	60	90	48	8.0	11	M4	4	/	/	8	64	/
SRS60115130-4S	60	115	130	15.0	30	/	20	10	2	/	/	/
SRS60118137-4T	60	118	137	8.0	13	M4	5	/	/	/	/	/
SRS60K120110-4T/S	60	120	110	13.0	27	M8	9	14	2	12	4	/
SRS60K120135-4T/S	60	120	138	14.5	35	M8	10	15	3	14	65	/
SRS60H130107-4S	60	130	107	10.0	15	M4	11	/	/	/	/	2-M8
SRS60160165-4S	60	160	165	20.0	40	/	22	20	3	/	/	/
SRS60K160164-4S	60	160	164	22.0	40	/	12	20	3	12	4	
SRS64K105107-4S	64	105	107	15.0	26	/	7	12	2	12	69	/
SRS65120110-4T	65	120	110	13.0	27	M8	9	/	/	/	/	/
SRS6513037-4T	65	130	67	8.0	12	M4	5	/	/	/	/	/
SRS65162205-4S	65	162	205	18.0	40	/	/	20	3	/	/	/
SRS65164165-4S	65	164	165	18.0	40	/	22	20	3	/	/	/
SRS66185205-4S	66	185	205	24.0	52	/	14	20	3	/	/	/
SRS68188205-4S	65	188	205	24.0	52	/	20	3	/	/	/	/
SRS70H12078-4T	70	120	78	10.0	15	M4	15	/	/	/	/	2-M8
SRS7013068-4N	70	130	68	7.8	12	4	/	/	/	/	/	/
SRS70186205-4S	70	186	205	24.0	52	/		20	3	/	/	/
SRS758076-4N	75	80	76	11.0	20	4	6	/	/	/	/	/
SRS75120110-4S	75	120	110	13.0	27	/	9	14	2	/	/	/
SRS75K140130-4S	75	140	130	18.0	32	/	10	15	3	12	79	/
SRS75K160100-4T	75	160	100	12.0	22	M6	7	/	/	12	79	/
SRS78.5F12975-4N	78.5	129	75	铁芯8	12.5	12	4	/	/	/	/	/
SRS80H13067-4T	80	130	67	9.0	12	M4	5.5	/	/	/	/	2-M8
SRS8013089-4N	80	130	89	8.0	18	4	8	/	/	/	/	/
SRS80K132100-4T	80	132	100	8.0	18	M4	9	/	/	12	84	/
SRS80K140130-4S	80	140	130	17.5	32	/	9	15	3	12	84	/
SRS80K188205-4T	80	188	205	24.0	52	M12	14	20	3	12	4	/
SRS90K135166-4S	90	135	166	18.0	37	/	14	15	3	16	96	/
SRS90K160202-4S	90	160	202	25.0	50	/	12	20	3	18	5	/
SRS90K186205-4S	90	186	205	24.0	52	/	4	20	2	12	4	/
SRS600685245-4N	600	685	245	28.0	55	12	30	/	/	/	/	/

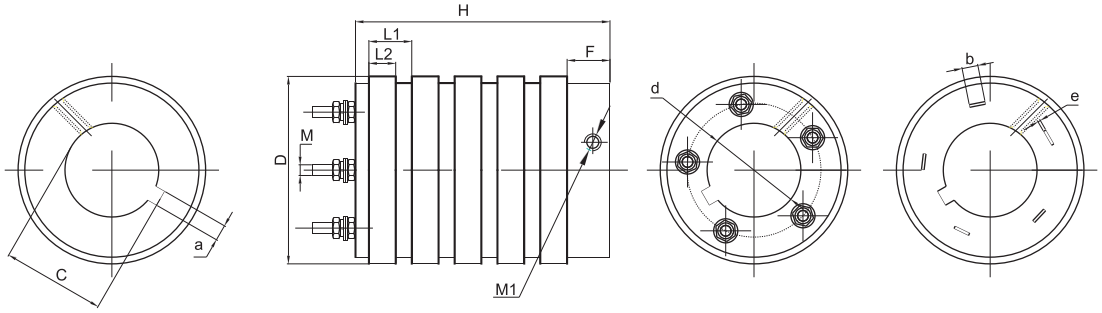
产品安装示意图

Installation Schematic Diagram



5环系列集电环 Five-Ring Slip Ring

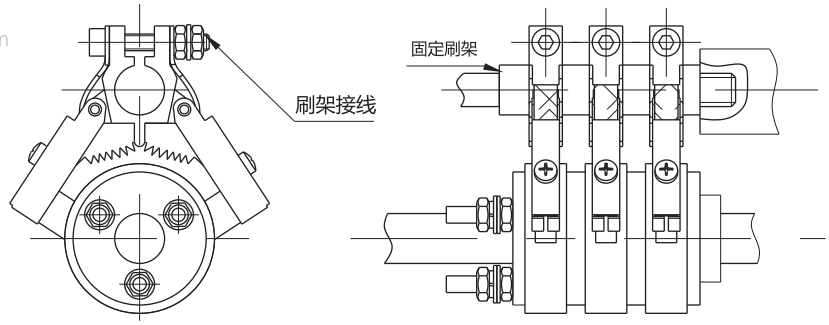
产品外形尺寸图 Outline Dimension



产品规格Product Specifications

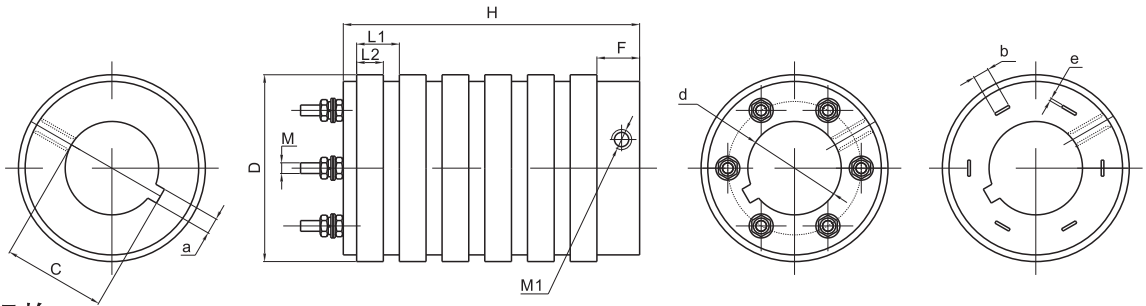
Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS40K80110-5S	40	80	110	10.0	22	/	6	10	2	10	42.5	/
SRS40K87110-5S	40	87	110	11.5	21.5	/	6	10	2	10	42.5	/
SRS45K88135-5S	45	88	135	11.0	21.5	/	35	10	2	10	49	/
SRS50K87110-5S	50	87	110	12.0	21.5	/	6.0	10.0	2.0	10.00	54.50	/
SRS55K87110-5S	55	87	110	11.5	21.5	/	6	10	2	10	59	/
SRS55110160-5S	55	110	130	15.0	25	/	13.0	15.0	2.0	/	/	/
SRS55K110135-5S	55	110	135	15.0	25	/	12.0	15.0	2.0	12.00	60.00	/
SRS58K9181-5T	58	91	81	9.0	13	M4	15	/	/	/	花键	/
SRS60K110130-5S	60	110	130	15.0	25	/	6	15	2	12	65	/
SRS60120138-5T	60	120	138	2.0	27	M8	10	/	/	/	/	/
SRS60120195-5S	60	120	195	15.0	25	/	11	15	3	/	/	/
SRS65K110130-5S	65	110	130	15.0	25	/	6	15	2	12	70	/
SRS65K110145-5N	65	110	145	13.5/9	30	12	M4	14	2.5	14	69	/
SRS65140160-5S	65	140	160	19.0	40	/	20	15	2	/	/	/
SRS65K160205-5S	65	160	205	18.0	40	/	20.0	20.0	3.0	12.00	70.00	/
SRS70140160-5S	70	140	160	16.5	31	/	15	2	/	/	/	/
SRS75K110100-5S	75	110	100	2.0	18	/	9	8	2	12	79	/
SRS75K140160-5S	75	140	160	16.5	31	/	14	15	2	12	80	/
SRS80K135160-5S	80	135	160	15.0	31	/	14	15	2	12	85	/
SRS80K140145-5S	80	140	145	16.0	27	/	8	15	2	12	85	/
SRS80140160-5S	80	140	160	16.5	31	/		15	2	/	/	/
SRS90K160250-5S	90	160	250	24.0	52	/	12	20	3	18	95	/
SRS85140105-5S	85	140	105	12.5	20.5	/	5.0	15.0	2.0	/	/	/
SRS110K165157-5S	110	165	157	14.0	29	/	25	15	2	12	115	/
SRS140K217192-5T	140	217	192	25/12	45/20	M12/M6	10	/	/	16	146	/

产品安装示意图
Installation Schematic Diagram



6环系列集电环 Six-Ring Slip Rring

产品外形尺寸图Outline Dimension

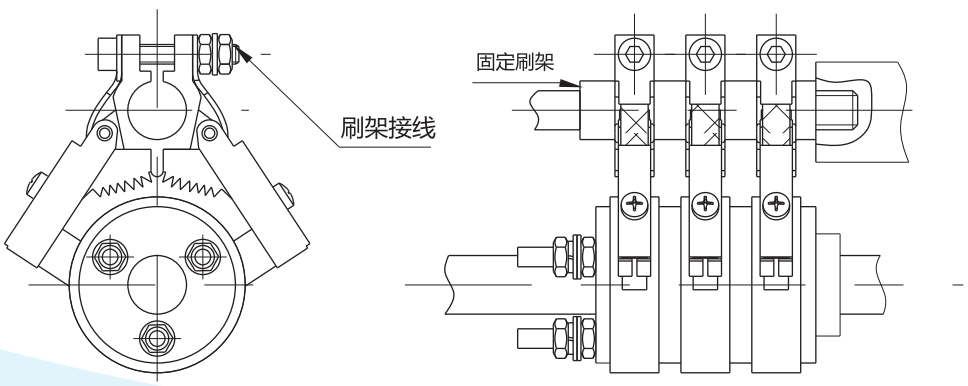


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS30KH60107-6T	30	60	107	9	16	M4	12	/	/	8	34	2-M8
SRS44K12676-6T	44	126	76	8	12	M4	6	/	/	8	47	/
SRS5095105-6T	50	95	105	9	14	M4		/	/	/	/	/
SRS6012676-6T	60	126	76	7.8	12	M4	5	/	/	/	/	/
SRS75K140138-6T	75	140	138	11.5	22	M6	6	/	/	12	80	/
SRS75K158180-6T	75	158	180	10	28	M4	15	/	/	12	79	/
SRS75K160142-6T	75	160	142	12	21.5	M6	6	/	/	12	79	
SRS80K160142-6T	80	160	140	12	21.5	M6	6	/	/	12	84	/
SRS91K162140-6S	91	162	140	12	22	/	10	14	2	16	95	/
SRS60K10796-6T	60	107	96	9.0	14	M4	16	/	/	/	/	/
SRS60K12077-6T	60	120	77	8.5	411	M4	7	/	/	8	62.5	/
SRS60K120148-6T	60	120	148	15/8	30/18	M8/M6	5	/	/	14	64	/
SRS60K130120-6T	60	130	120	10.0	15	M4	7	/	/	10	65	/
SRS195H255117-6N	195	255	117	10.0	16	4	21	/	/	/	/	2-M8

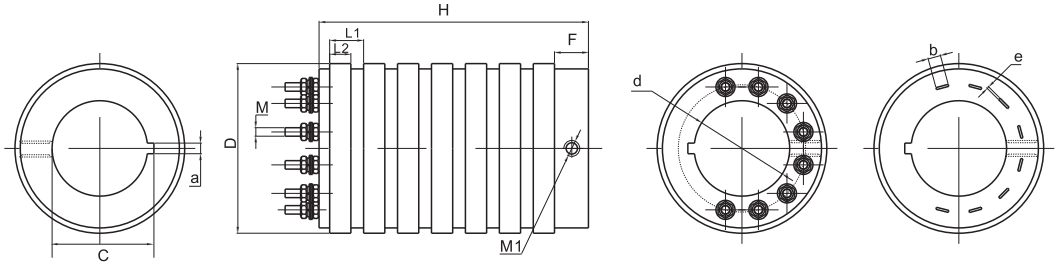
产品安装示意图

Installation Schematic Diagram



7环系列集电环 Seven-Ring Slip Ring

产品外形尺寸图 Outline Dimension

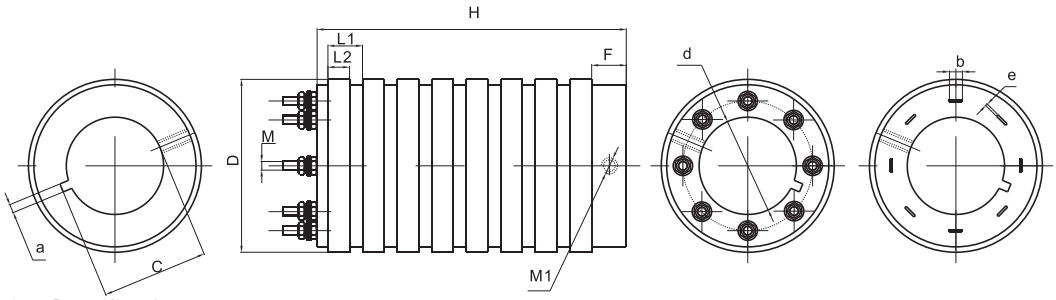


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS4072129-7T	40	72	129	9.0	16	M4	16	/	/	/	/	/
SRS40100103-7T	40	100	103	8.0	13	M4	16	/	/	/	/	/
SRS50K100103-7T	50	100	103	8.0	13	M4	16	/	/	12	4	/
SRS50K95175-7S	50	95	172	14.0	24		5	10	2	12	55	/
SRS64K112170-7T	64	111.5	170	14.0	23	M6	7	/	/	12	69	/
SRS	70	110		14.0	30	/	10	14	2	12	54	/

8环系列集电环 Eight-Ring Slip Ring

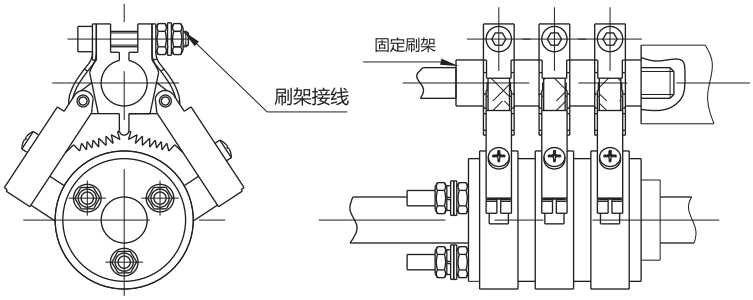
产品外形尺寸图 Outline Dimension



产品规格ProductSpecifications

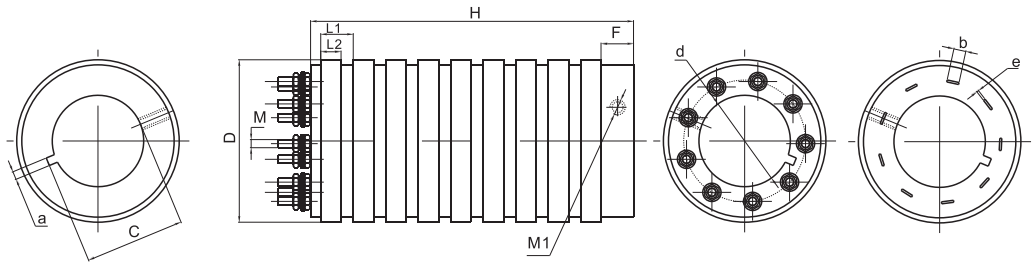
Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS2570125-8T	25	70	125	8	13	M4	18	/	/	/	/	/
SRS2570140-8T	25	70	140	8/5	12/8	M4	37	/	/	/	/	/
SRS38K70124-8T	38	70	124	8.0	13	M4	18	/	/	8	12	/
SRS50100117-8T	50	100	117	8.0	13	M4	16	/	/	/	/	/
SRS60K107117-8T	60	107	117	9.0	14	M4	10	/	/	12	64	/
SRS70K140228-8S	70	140	228	17	28	/	8	15	2	20	75	/
SRS75K140186-8T	75	140	183	12.0	22	M6	10	/	/	12	81	/
SRS90K140170-8T	90	140	170	10	18	M5	8	/	/	12	93.5	/
SRS190255117-8T	190	255	117	10.0		M4	21	/	/	/	/	/

产品安装示意图
Installation Schematic Diagram



9环系列集电环 Nine-Ring Slip Ring

产品外形尺寸图 Outline Dimension

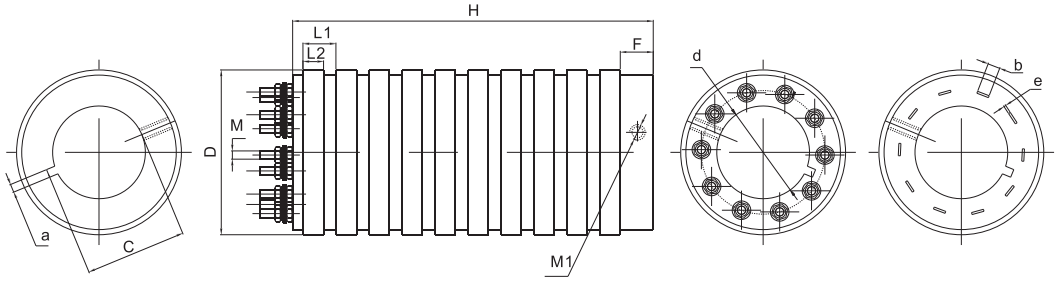


产品规格 Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS40K100135-9T	40	100	135	13	13	M4	16	/	/	7	45	/
SRS46K95123-9T	46	95	123	17/9	17/9	M4	8	/	/	12	51	/
SRS60165162-9T	60	165	162	21	21	M6	6	/	/	/	/	/
SRS34K70153-9T	34	70	153	17	17	M4	4	/	/	10	38	/

10环系列集电环 Ten-Ring Slip Ring

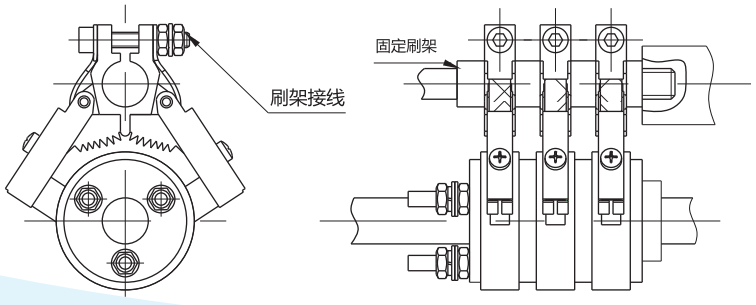
产品外形尺寸图 Outline Dimension



产品规格 Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS50100144-10T	50	100	144	8.0	13	M4	16	/	/	/	/	/
SRS72K160178-10T	72	160	178	8.0	17	M4	8	/	/	12	76	/
SRS85150326-10T	85	150	326	18.0	31	M8	10	/	/	/	/	/
SRS180K255170-10T	180	255	170	10.0	13	M5	8	/	/	8	183.5	/
SRS220290170-10T	220	290	170	10.0	16	M5	6	/	/	/	/	/

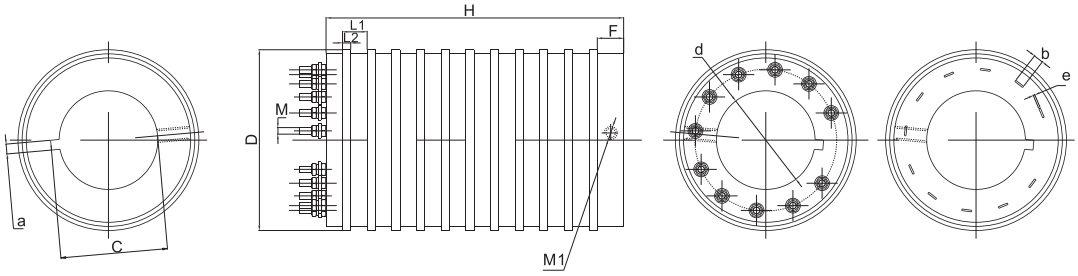
产品安装示意图
Installation Schematic Diagram



Please contact us or visit our website for updating products.

11环系列集电环 Eleven-Ring Slip Ring

产品外形尺寸图Outline Dimension

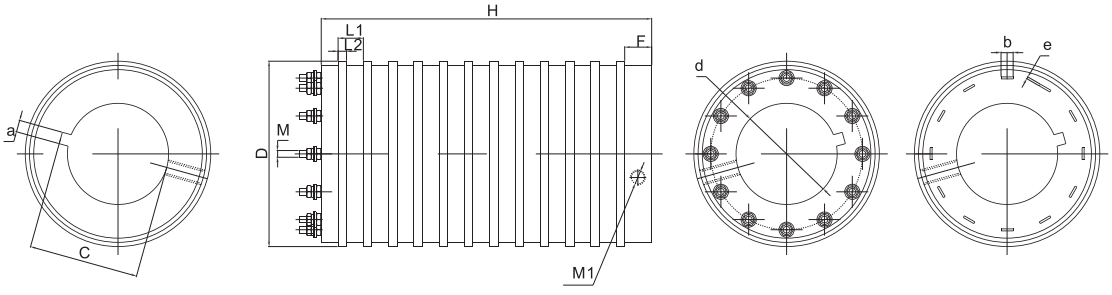


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS19025893-11T	190	285	93	6.0	8	M4	3	/	/	/	/	/

12环系列集电环 Twelve-Ring Slip Ring

产品外形尺寸图Outline Dimension

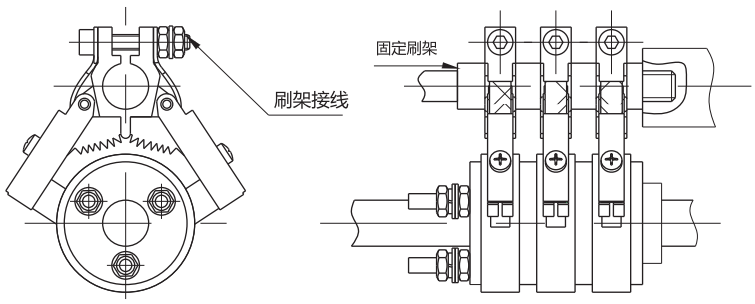


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS40100165-12T	40	100	165	8.0	13	M4	6	/	/	/	/	/
SRS4590166-12T	45	90	166	8.0	12.5	M4	16	/	/	/	/	/
SRS60125205-12T	60	125	205	11.0	17	M6	4	/	/	/	/	/
SRS75K123210-12T	75	123	210	12.0	16	M6	5	/	/	/	79	/

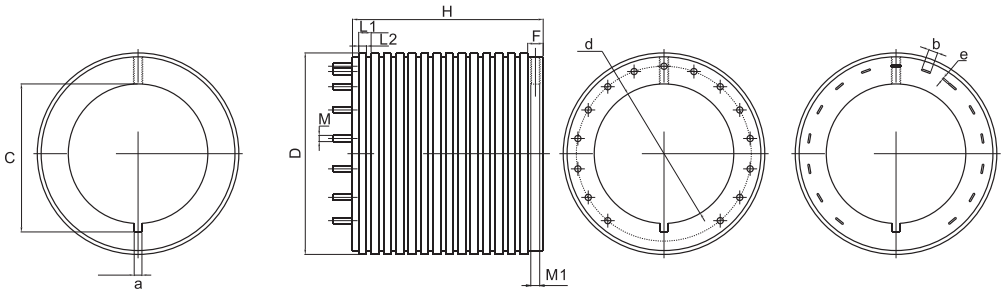
产品安装示意图

Installation Schematic Diagram



14环系列集电环 Fourteen-Ring Slip Ring

产品外形尺寸图Outline Dimension

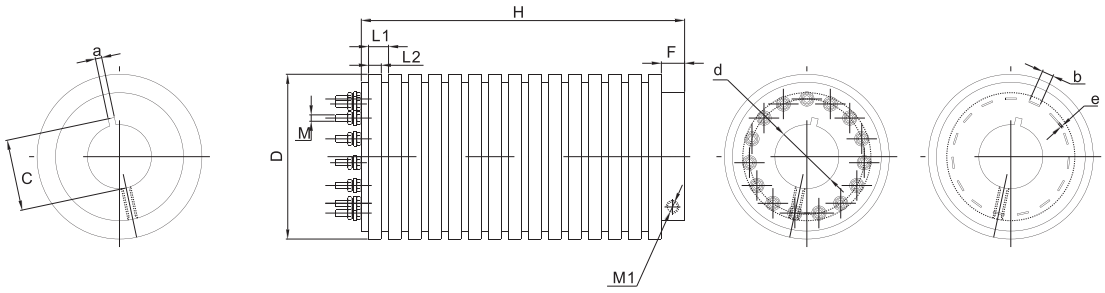


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS180K255235-14T	180	255	235	10.0	16	M5	6	/	/	8	183.5	/
SRS220K290234-14T	220	290	234	10.0	16	M5	6	/	/	8	223.5	/

15环系列集电环 Fifteen-Ring Slip Ring

产品外形尺寸图Outline Dimension

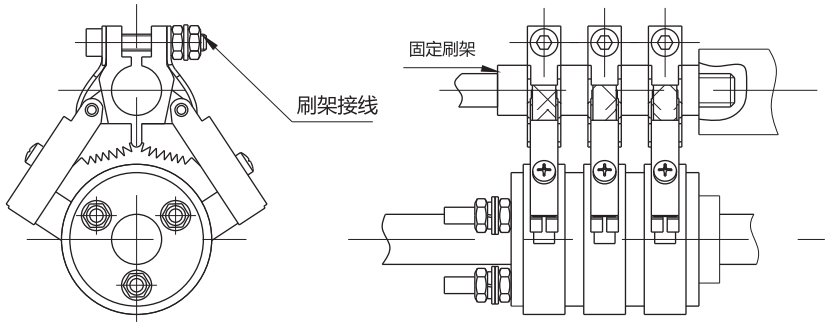


产品规格Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS40100185-15N	40	100	185	8.0	13	M4	16	/	/	/	/	/

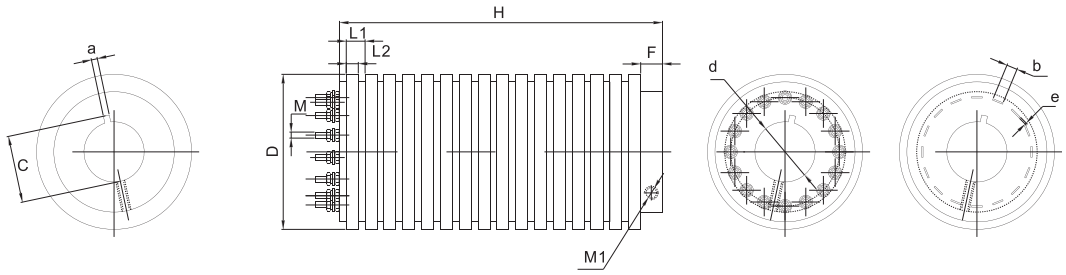
产品安装示意图

Installation Schematic Diagram



16环系列集电环 Sixteen-Ring Slip Ring

产品外形尺寸图 Outline Dimension

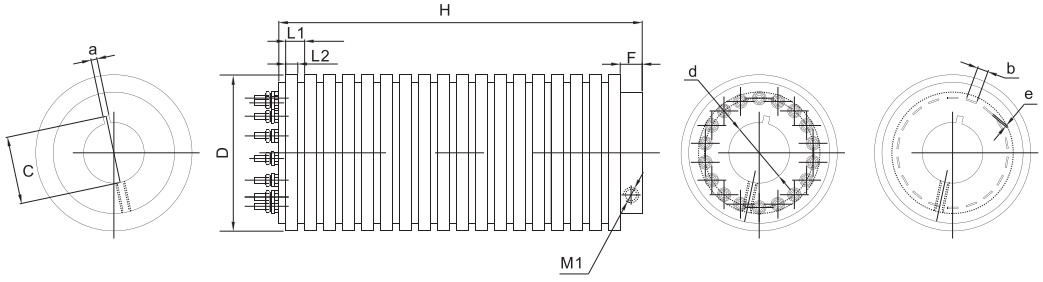


产品规格 ProductSpecifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS50150216-16T	50	105	216	8.0	13	M4	6	/	/	/	/	/
SRS190256510-16T	190	256	510	16.0	31	M8	14	/	/	/	/	/

18环系列集电环 Eigtheen-Ring Slip Ring

产品外形尺寸图 Outline Dimension

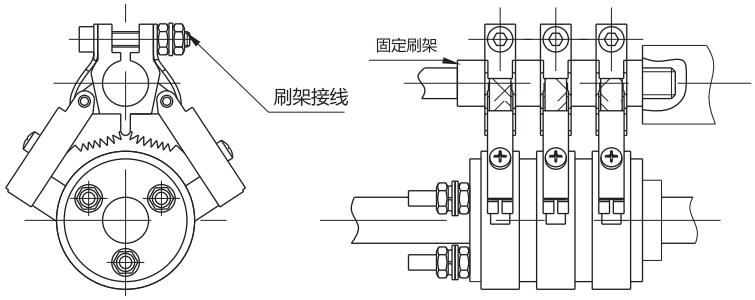


产品规格 Product Specifications

Model	d	D	H	L2	L1	M	F	b	e	a	C	M1
SRS90K144340-18T	90	144	340	10.0	18	M5	6	/	/	12	93.5	/

产品安装示意图

Installation Schematic Diagram



精密型集电环系列
THROUGH-BORE SLIP RING



特点 Characteristic

完全满足360度无限制旋转的动力、控制及数字信号混合传输；采用先进的纤刷技术，免维护，无需润滑油；每环多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命；标准化、模块化设计，产品规格齐全，并能为客户量身定制所需要的产品.

Continious transmission of power and /or signal under 360° unrrestrained rotation;applied advanced fibre brush technologly,free of maintenence or lubricating oil;mutil contact points in each ring, low contact pressure,low noise,low contact wear, extremely long-life; standarized& modularized design; and customerized solutions available

可选项 Option

额定电流、电压、额定转速、工作温度、环道数、外壳材料及颜色、外型尺寸、专用导线、导线出口方向、导线长度、防护等级、端子类型

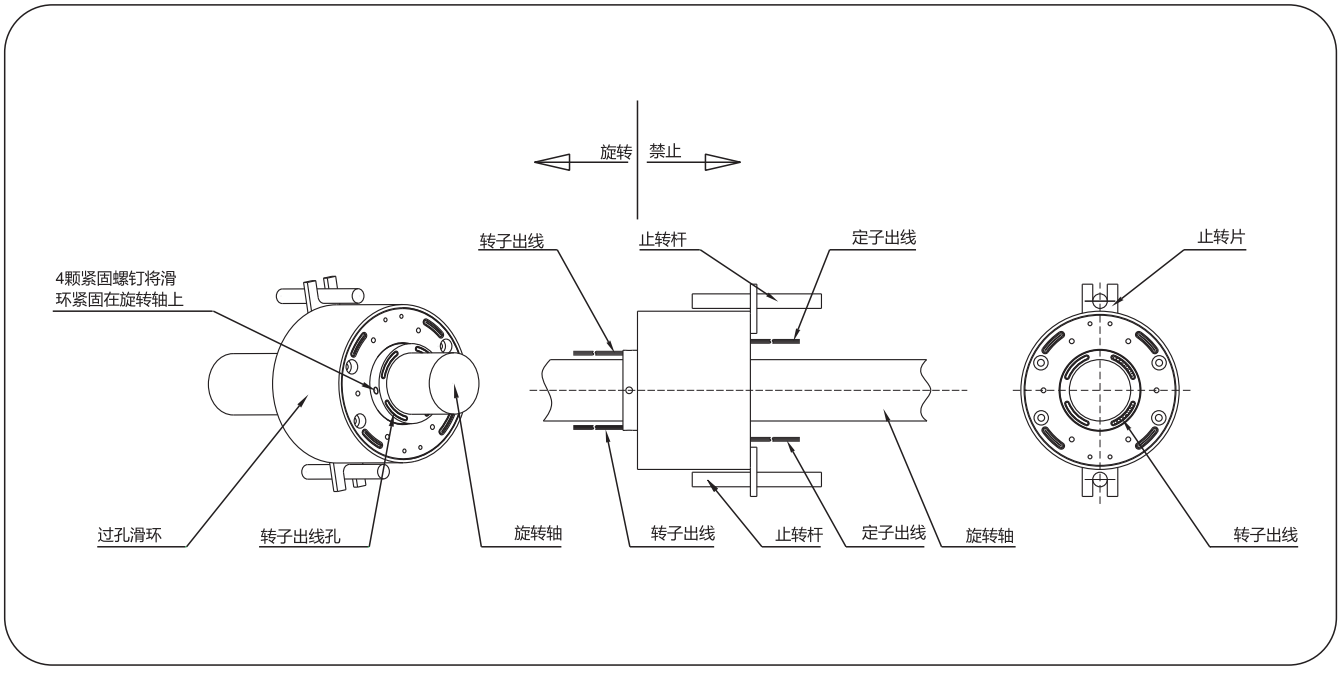
Current, rated voltage, rated speed, temperature, Luton, shell material and color, shape size, special wire, wire length, direction of export, protection grade, terminal type

典型应用 Typical Applications

工业机器加工中心、旋转工作台、重型设备塔台、电缆卷盘、试验设备、包装设备、堆垛机、磁性离合器、工艺控制设备、旋转传感器、紧急照口月设备、机器人、展览／显示设备、医疗设备.

Industrial machine-maching centers, rotary index table, heavy equipment turrets,, cable reesl, test equipment, packaging equipment, palletizing machines, magnetic clutch, process equipment;raotary sensors, emergency lighting, robitcs;exibit display equpment, medical equipment.

产品安装示意图 Installation Diagram



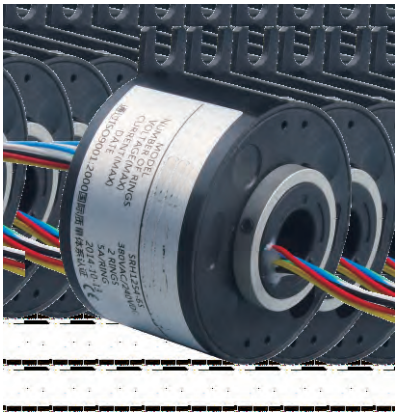
SRH1254 系列导电滑环

SRH1254 Series Through–Bore Slip Ring

型号选用说明 Model Explanation

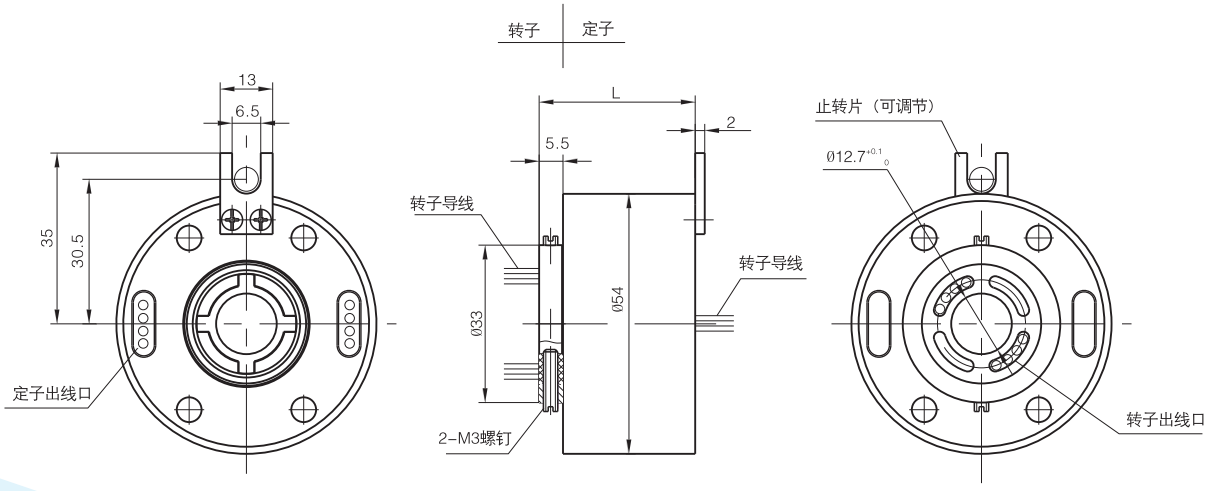
SRH　1254　–　12

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 54代表外径54mm
  54: outside diameter 54mm
- 12代表过孔内径12.7mm
  12: through bore diameter 12.7mm
- SR代表导电滑环
  SR: slip ring
- H代表过孔系列
  H:slip rings with a hole (through bore)



型号 Model	长度（L=mm）	路数 Circuits
SRH1254–6	33.4	6
SRH1254–12	47.3	12
SRH1254–18	61.3	18
SRH1254–24	75.2	24

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm



SRH1254 系列导电滑环
SRH1254 Series Through–Bore Slip Ring

电气技术指标 Electrical Data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VAC/VDC
额定电流 Rated Current	标准每路为5A 5A/ring
导线规格 Lead Size	AWG22镀银铁氟龙绝缘 AWG22 sliver plated, PTFE insulated
导线长度 Lead Length	标准500mm Standard 500mm
绝缘电阻 Insulation Resistance	≥500MΩ/500VDC
绝缘强度 Dielectric Strength	500VAC/50Hz,60s
动态电阻变化值 Electrical Noise	<0.01Ω

机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0 – 500 rpm
工作温度 Working temperature	–20℃ – +80℃
工作湿度 Humidity	60%RH或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious metal
壳体材料 Housing Material	工程塑料 Engineering plastic
力 距 Torque	6环产品为0.1N・M,每增加6环加0.03N・M 0.1N・M for –6 version, 0.03N・M increased for every 6rings added
防护等级 Protection level	IP51

标准滑环导线色码表 Lead Color Code

色码	红RED	黄YEL	黑BLK	蓝BLU	绿GRN	白WHT	紫PUP	灰GRY	棕BRN	橙ORN	深蓝 DBLU	土黄 KHK
6路	1	2	3	4	5	6	–	–	–	–	–	–
12路	1	2	3	4	5	6	7	8	9	10	11	12
18路	1 13	2 14	3 15	4 16	5 17	6 18	7	8	9	10	11	12
24路	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24

SRH2578 系列导电滑环
SRH2578 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

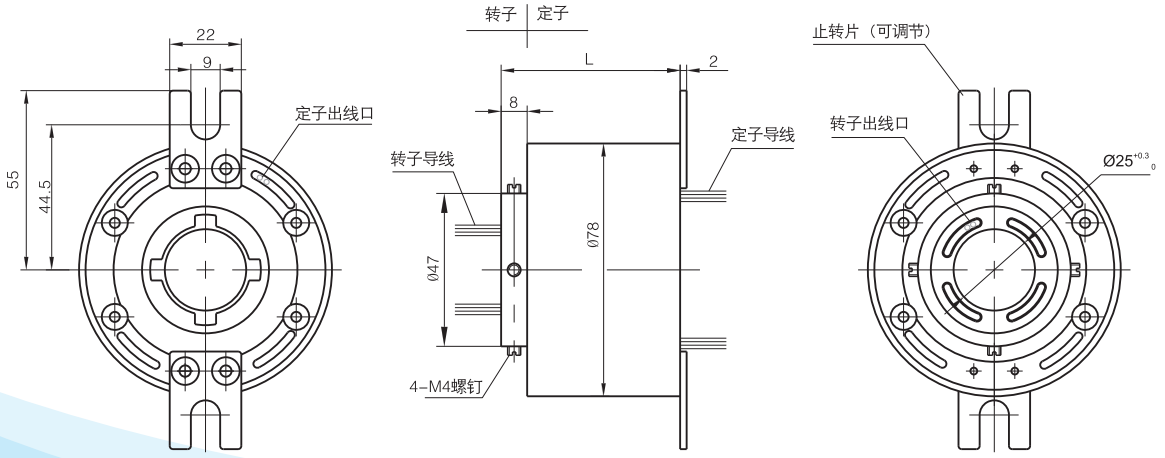
SRH 2578 – 6P / 12S

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 78代表外径78mm 78: outside diameter 78mm
- 25代表过孔内径 25.4mm
  25: through bore diameter 25.4mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（ L=mm ）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率 P(10A 、 15A)	信号 S(2A)	
SRH2578–6P	55	6	–	6
SRH2578–12S	79	–	12	12
SRH2578–12P	79	12	–	12
SRH2578–6P/12S	103	6	12	18
SRH2578–24S	127	–	24	24
SRH2578–18P	103	18	–	18
SRH2578–12P/12S	127	12	12	24
SRH2578–6P/24S	151	6	24	30
SRH2578–36S	175	–	36	36
SRH2578–24P	127	24	–	24

可按客户需求定制到 96 通路 Max 96 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH3899 系列导电滑环
SRH3899 Series Through–Bore Slip Ring

型号选用说明 Model Explanation

SRH 3899 – 6P / 12S

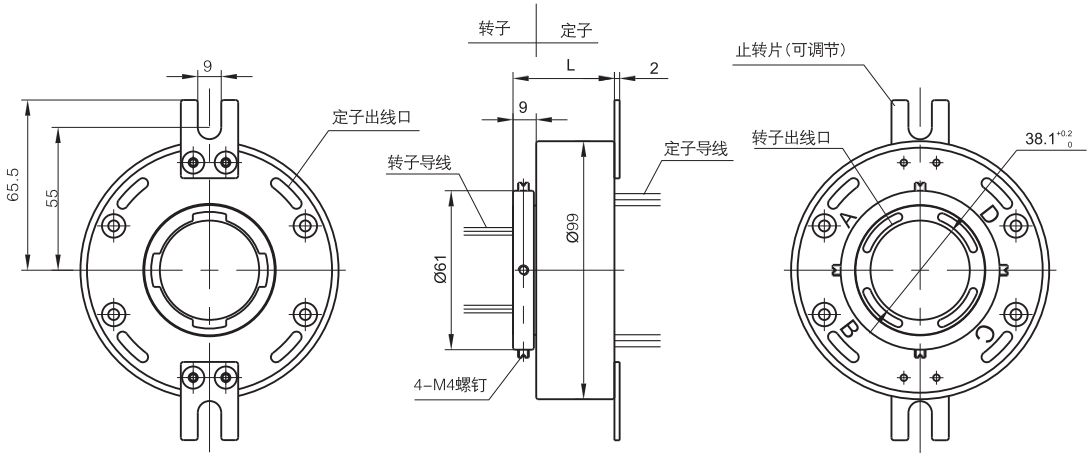
- 12代表12个通道（每通道5A）
  12: 12 circuits (5A/circuit)
- 6P代表6个功率通道 6P: channels for power
- 99代表外径99mm 99: outside diameter 99mm
- 38代表过孔内径38.1mm
  38: through bore diameter 38.1mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)



型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A)	信号S(2A)	
SRH3899–6P	55	6	–	6
SRH3899–12S	79	–	12	12
SRH3899–12P	79	12	–	12
SRH3899–6P/12S	103	6	12	18
SRH3899–24S	127	–	24	24
SRH3899–18P	103	18	–	18
SRH3899–12P/12S	127	12	12	24
SRH3899–6P/24S	151	6	24	30
SRH3899–36S	175	–	36	36
SRH3899–24P	127	24	–	24
SRH3899–18P/12S	151	18	12	30
SRH3899–12P/24S	175	12	24	36
SRH3899–6P/36S	203	6	36	42
SRH3899–48S	223	–	48	48

可按客户需求定制到 96 通路 Max 96 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH50120 系列导电滑环
SRH50120 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

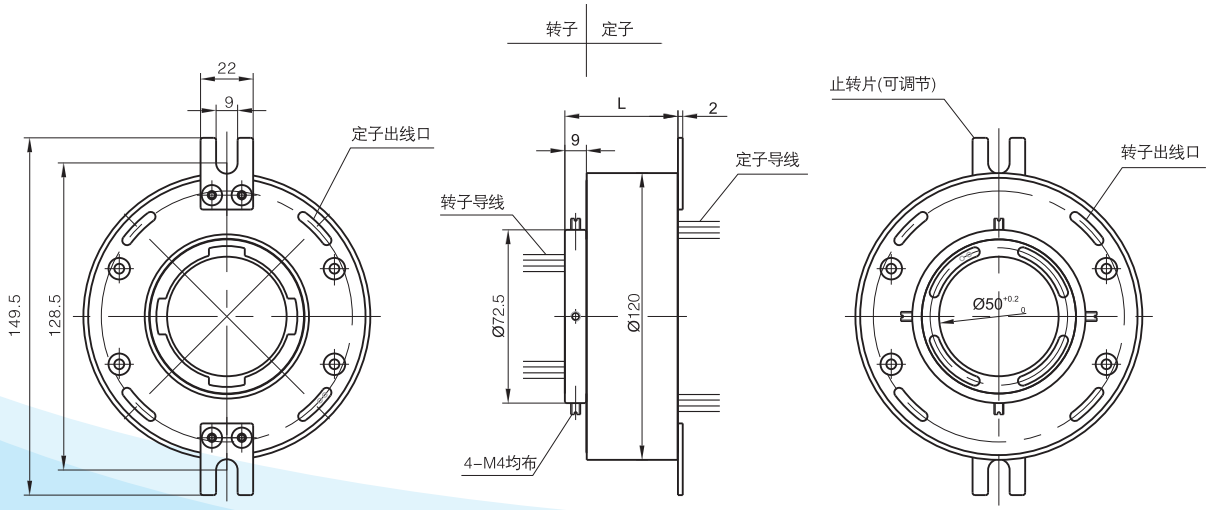
SRH 50120 – 6P / 12S

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 120代表外径120mm 120: outside diameter 120mm
- 50代表过孔内径50mm
  50: through bore diameter 50mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH50120–6P	64	6	–	6
SRH50120–12S	88	–	12	12
SRH50120–12P	88	12	-	12
SRH50120–6P/12S	112	6	12	18
SRH50120–24S	136	–	24	24
SRH50120–18P	112	18	–	18
SRH50120–12P/12S	136	12	12	24
SRH50120–6P/24S	160	6	24	30
SRH50120–36S	184	–	36	36

可按客户需求定制到 96 通路 Max 96 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH60130 系列导电滑环SRH60130

SRH60135 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

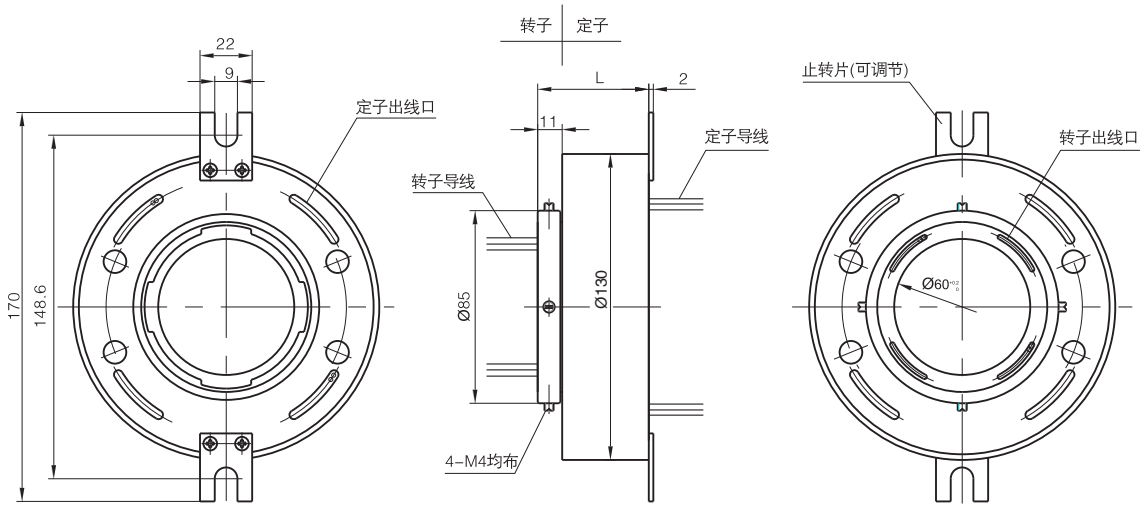
SRH 60130 – 6 / 12

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 130代表外径130mm 130: outside diameter130mm
- 60代表过孔内径60mm
  60: through bore diameter 60mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH60130–6P	66	6	–	6
SRH60130–12S	90	–	12	12
SRH60130–12P	90	12	–	12
SRH60130–6P/12S	114	6	12	18
SRH60130–24S	138	–	24	24
SRH60130–18P	114	18	–	18
SRH60130–12P/12S	138	12	12	24
SRH60130–6P/24S	162	6	24	30
SRH60130–36S	186	–	36	36
SRH60130–24P	138	24	–	24

可按客户需求定制到 96 通路　　Max 96 circuits available on request

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm



SRH70155 系列导电滑环

SRH70155 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

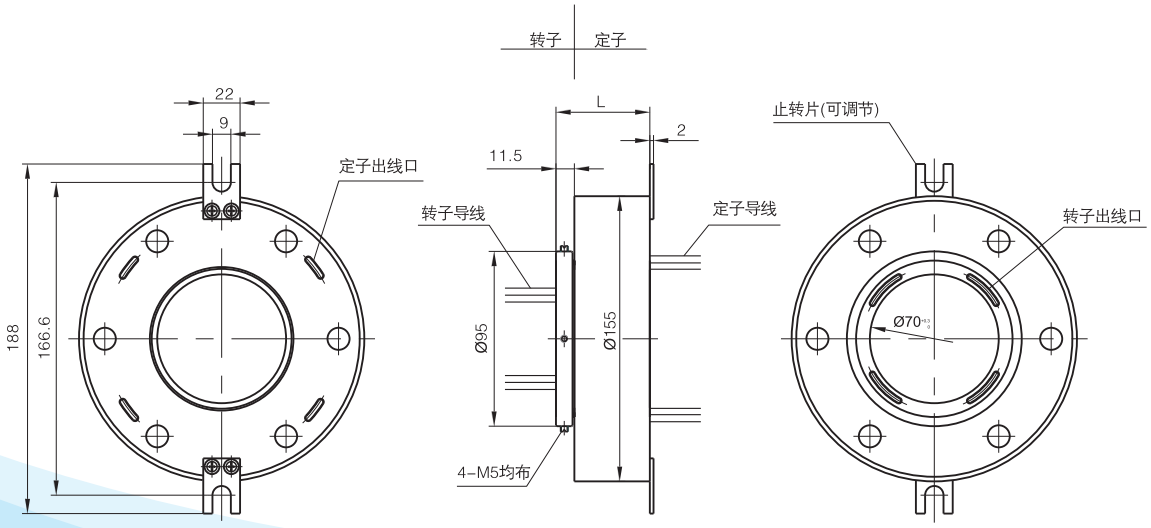
SRH 70155 – 6 / 12

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 155代表外径155mm 155: outside diameter 155mm
- 70代表过孔内径70mm
  70: through bore diameter 70mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH70155–6P	71	6	–	6
SRH70155–12S	95	–	12	12
SRH70155–12P	95	12	–	12
SRH70155–6P/12S	119	6	12	18
SRH70155–24S	143	–	24	24
SRH70155–18P	119	18	–	18
SRH70155–12P/12S	143	12	12	24
SRH70155–6P/24S	167	6	24	30
SRH70155–36S	191	–	36	36
SRH70155–24P	143	24	–	24

可按客户需求定制到216通路 Max 216 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH80180 系列导电滑环
SRH80180 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

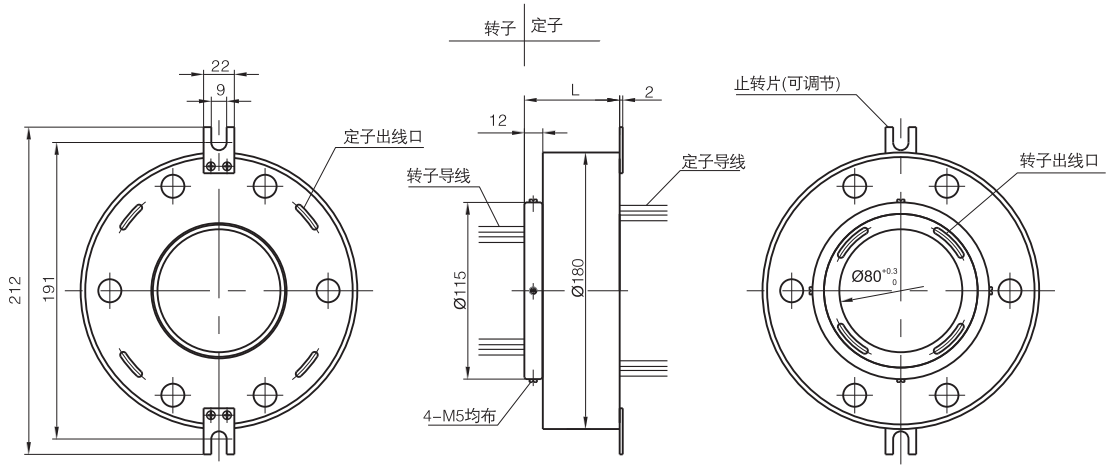
SRH 80180 – 6 / 12

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 180代表外径180mm 180: outside diameter 180mm
- 80代表过孔内径80mm
  80: through bore diameter 80mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH80180–6P	72	6	–	6
SRH80180–12S	96	–	12	12
SRH80180–12P	96	12	–	12
SRH80180–6P/12S	128	6	12	18
SRH80180–24S	180	–	24	24
SRH80180–18P	128	18	–	18
SRH80180–12P/12S	144	12	12	24
SRH80180–6P/24S	168	6	24	30
SRH80180–36S	192	–	36	36
SRH80180–24P	144	24	–	24

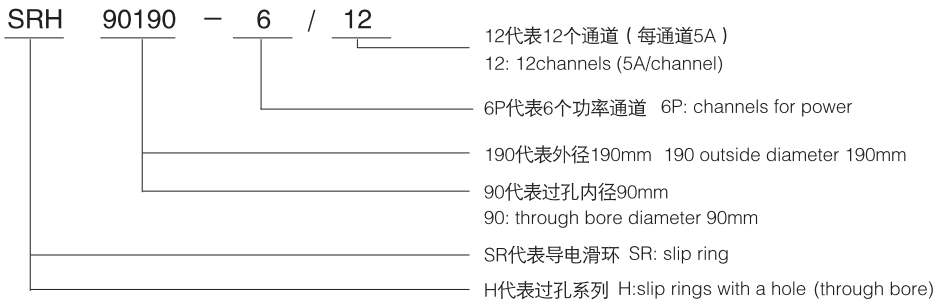
可按客户需求定制到216通路 Max 216 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH90190 系列导电滑环
SRH90190 Series Through–Bore Slip Ring

型号选用说明 Model Explanation

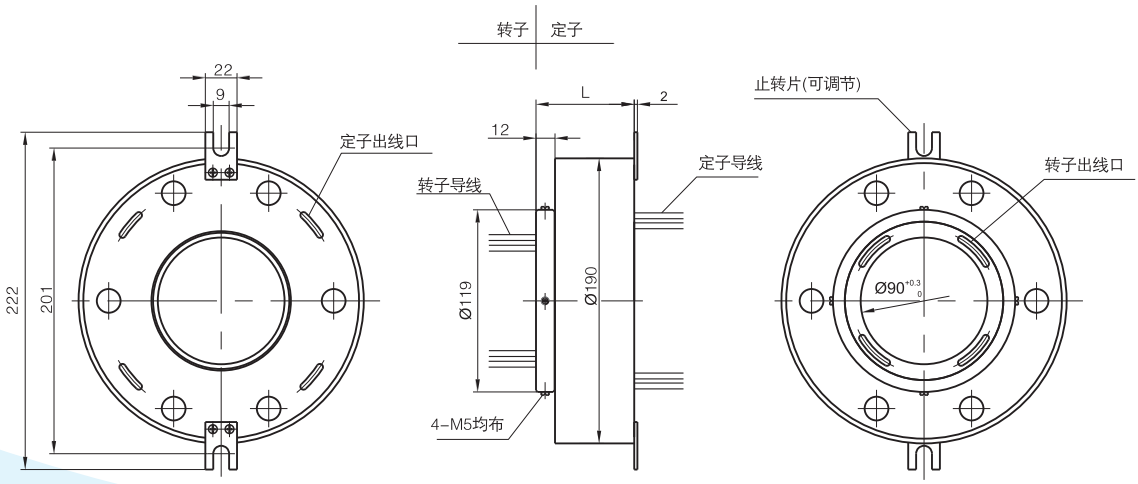




型号Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH90190–6P	88.5	6	–	6
SRH90190–12S	118.5	–	12	12
SRH90190–12P	118.5	12	–	12
SRH90190–6P/12S	148.5	6	12	18
SRH90190–24S	178.5	–	24	24
SRH90190–18P	148.5	18	–	18
SRH90190–12P/12S	178.5	12	12	24
SRH901905–6P/24S	208.5	6	24	30
SRH90190–36S	238.5	–	36	36
SRH90190–24P	178.5	24	–	24

可按客户需求定制到216通路 Max 216 circuits available on request

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRH100203 系列导电滑环
SRH100203 Series Through–Bore Slip Ring



型号选用说明 Model Explanation

SRH 100200 – 6 / 12

- 12代表12个通道（每通道5A）
  12: 12 channels (5A/channel)
- 6P代表6个功率通道 6P: channels for power
- 200代表外径200mm 200: outside diameter 200mm
- 100代表过孔内径100mm
  100: through bore diameter 100mm
- SR代表导电滑环 SR: slip ring
- H代表过孔系列 H:slip rings with a hole (through bore)

型号 Model	长度（L=mm）	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH100200–6P	93.5	6	—	6
SRH100200–10S	113.5	—	10	10
SRH100200–12P	96.5	12	—	12
SRH100200–6P/10S	143.5	6	10	16
SRH100200–20S	163.5	—	20	20
SRH100200–18P	153.5	18	—	18
SRH100200–12P/10S	173.5	12	10	22
SRH100200–6P/20S	193.5	6	20	26
SRH100200–30S	213.5	—	30	30
SRH100200–24P	183.5	24	—	24
SRH100200–18P/10S	203.5	18	10	28
SRH100200–12P/20S	233.5	12	20	32
SRH100200–6P/30S	243.5	6	30	36
SRH100200–40S	273.5	—	40	40
SRH100200–30P	213.5	30	—	30
SRH100200–24P/10S	233.5	24	10	34
SRH100200–18P/20S	253.5	18	20	38
SRH100200–12P/30S	273.5	12	30	42
SRH100200–6P/40S	293.5	6	40	46
SRH100200–50S	313.5	—	50	50
SRH100200–36P	243.5	36	—	36
SRH100200–30P/10S	263.5	30	10	40
SRH100200–24P/20S	283.5	24	20	44
SRH100200–18P/30S	303.5	18	30	48
SRH100200–12P/40S	353.5	12	40	52

可按客户需求定制到216通路 Max 216 circuits available on request

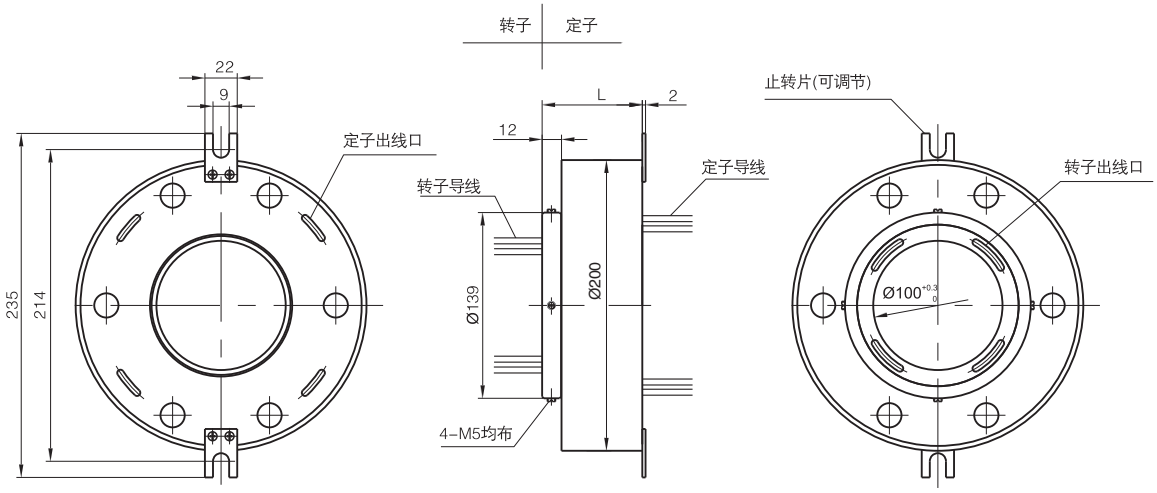
电气技术指标 Electrical Data

参数 Specification	数值 Values	
	功率 Power	信号 Signal
额定电压 Rated Voltage	380VAC	240VAC/VDC
绝缘电阻 Insulation Resistance	≥1000MΩ/500VDC	≥500MΩ/500VDC
导线规格 Lead Size	AWG16镀锡铁氟龙或PVC绝缘 AWG16 tin plated, PTFE insulated or PVC	AWG22镀银铁氟龙绝缘 AWG22 sliver plated, PTFE insulated
导线长度 Lead Length	标准500mm Standard 500mm	
绝缘强度 Dielectric Strength	500VAC@50Hz,60s	
动态电阻变化值 Electrical Noise	<0.01Ω	

机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0~500 rpm
工作温度 Working temperature	-20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious metals
壳体材料 Housing Material	工程塑料或铝合金 Engineering Plastics or Aluminum
力 距 Torque	6环产品为0.1N・M,每增加6环加0.03N・M 0.1N・M for –6 version, 0.03N・M increased for every 6rings added
防护等级 Protection level	IP51

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



SRC帽型滑环

CAPSULE SLIP RING

特点 Characteristic

完全满足360度无限制旋转的图像及数据传输 工作噪音小，寿命长 小转动力矩，运转平滑 动态电阻变化值极低<0.01Ω 体积小，结构紧凑

Fully meet the 360 degrees without limitation of image and data transmission noise rotation of small, long life and small rotational torque, smooth operation of dynamic resistance value is very low with <0.01 has the advantages of small volume, compact structure

可选项 Option

路数、外壳材料、防护等级、更高转数、导线长度、端子接插件、专用导线、防盐雾、工作温度、外壳可反装

Way, housing materials, protection grade, higher speed, the length of the wire, connector, wire, special anti salt fog, working temperature and the shell can be anti loaded

典型应用 Typical Applications

闭路监控云台；机械手；医疗卫生设备；旋转工作平台；流水线生产、工业控制设备

Closed circuit monitoring platform; manipulator; medical equipment; rotary working platform; assembly line production, industrial control equipment

型号选用说明 Model Explanation

SRC　012　A　–　12　F

- F代表法兰盘安装 F: mounted flange
- 12代表12环通道 12:12 rings
- A代表外壳的规格 A:Housing specifications
- 012代表外径12.4mm 012:outside diameter 12.4mm
- SR代表滑环 SR: slip ring
- C代表帽型系列 C:Capsule

电气技术指标 Electrical Data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每路为2A 2A/ring
导线规格 Lead Size	AWG28 彩色镀银铁氟龙绝缘 AWG28, color coded, PTFE insulated, silver plated copper
导线长度 Lead Length	250mm或根据客户要求提供 250mm (or as request)
绝缘体强度 Dielectric Strength	500VAC@50Hz，60s
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值Electrical Noise	＜0.01Ω

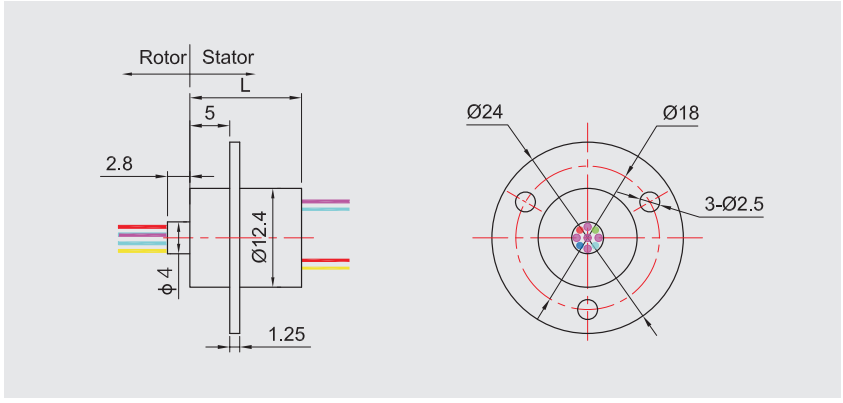
机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	scitsalPEngineering 工程塑料

SRC012 系列帽型滑环

SRC012 Capsule Slip Ring

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



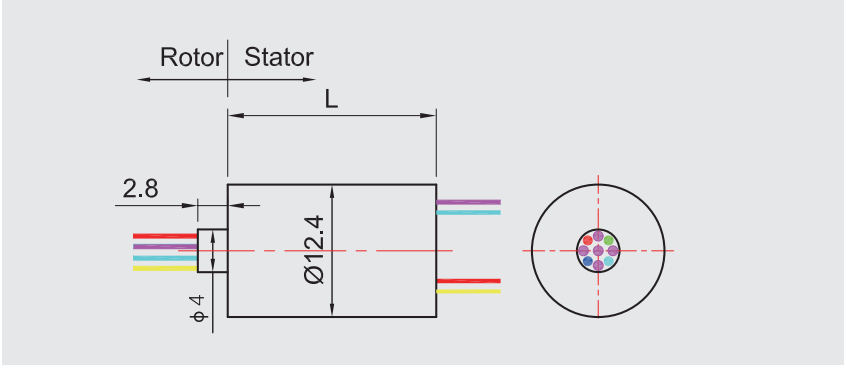


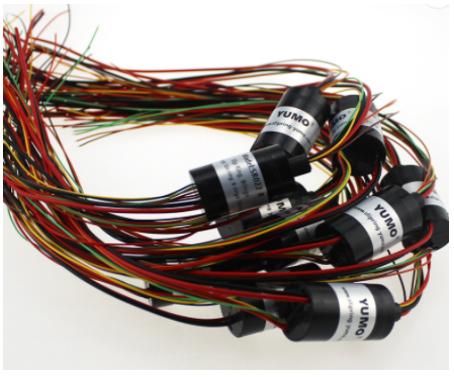
MODEL	L(mm)
SRC012-6	14
SRC012-12	19.5

SRC012C 系列帽型滑环

SRC022C Capsule Slip Ring

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



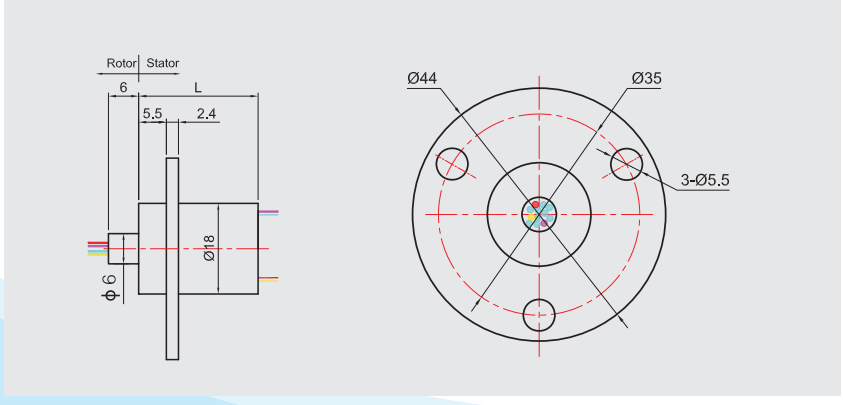


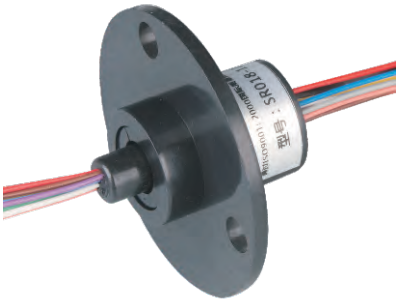
MODEL	L(mm)
SRC012C-6	14
SRC012C-12	19. 5
SRC012C-18	23

SRC018 系列帽型滑环

SRC018 Capsule Slip ring

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

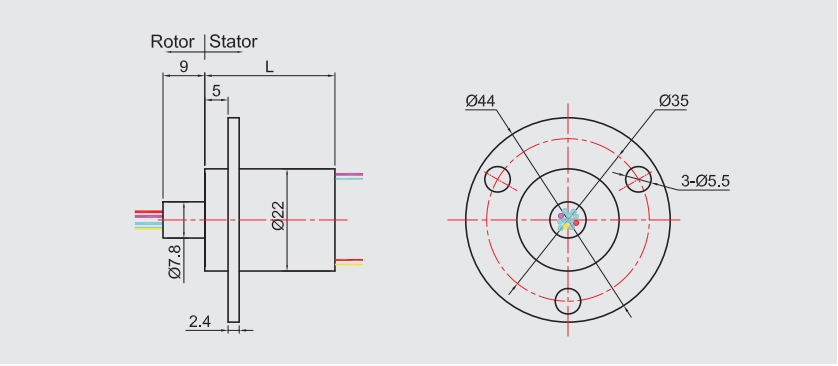


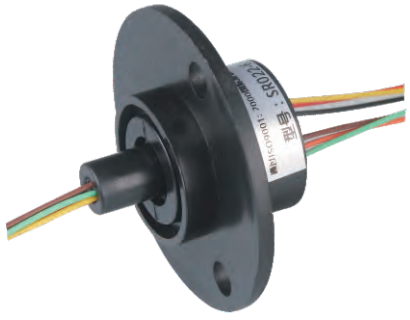


MODEL	L(mm)
SRC018-6	15.9
SRC018-12	23.7

SRC022 系列帽型滑环
SRC022 Capsule Slip Ring

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm



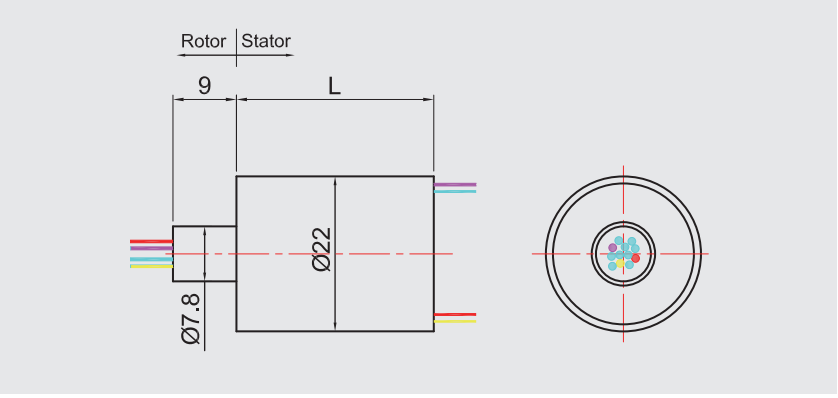


规格表 Specification List

型号 Model	路数 NO. of Circuits	额定电流 Rated Current			长度 "L"
		2	6	10	
SRC022-6	6	6			19
SRC022-7	7	7			19
SRC022-12	12	12			28
SRC022-12-2P/2S	4	2	2		28
SRC022-15	15	15			29.5
SRC022-18	18	18			33.4
SRC022-18-3P	3			3	33.4
SRC022-24	24	24			41.2
SRC022-24-4P/6S	10	6	4		41.2
SRC022-36	36	36			56.8

SRC022C系列帽型滑环
SRC022C Capsule Slip Ring

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

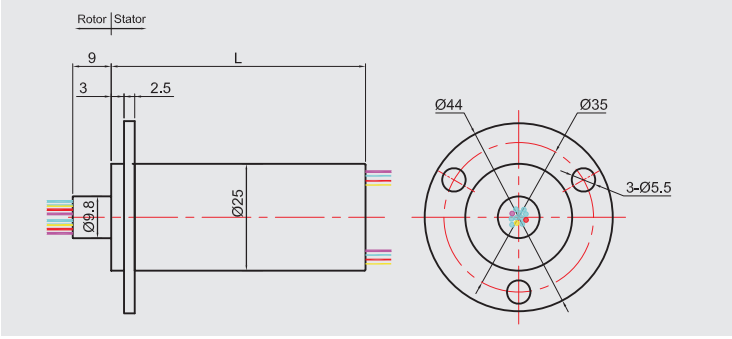




MODEL	L(mm)
SRC022C-6	19
SRC022C-12	28
SRC022C-18	33.4
SRC022C-24	41.2

SRC025 系列帽型滑环
SRC025 Capsule Slip Ring

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

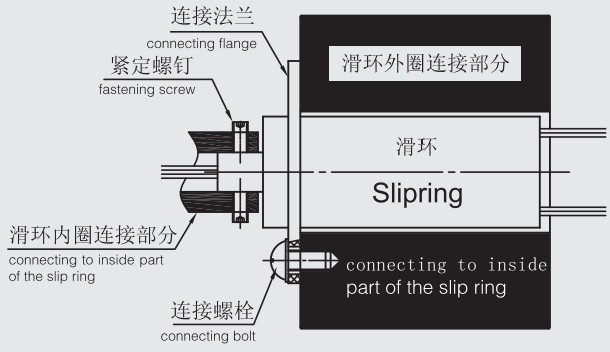




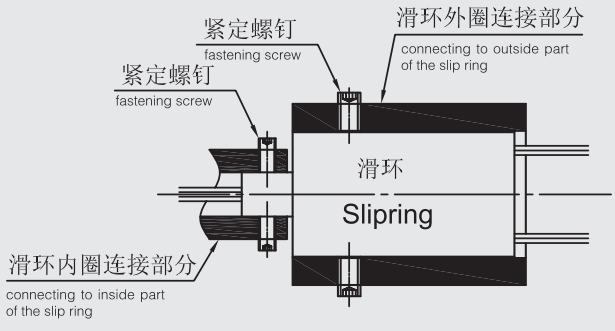
机械技术指标 Mechanical Data

参数 Specification	数值　Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminum

安装方式 Way of Installation



带法兰产品连接方式
Installation of slip rings with flange

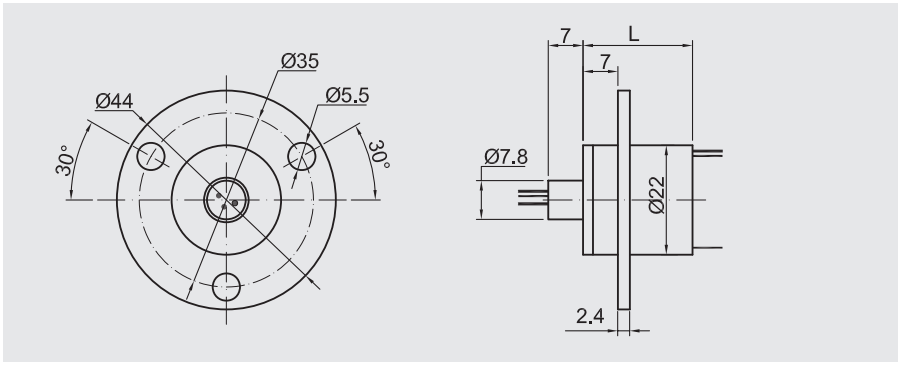


C型产品连接方式
Installation of type C slip ring

SRFW帽型小风电滑环
SRFW Series for Small Wind Turbine

外形尺寸 Outline Dimension





小风电功率 Power Output	100W	300W	600W	1000W	1500W	
滑环型号 Type	SRFW022-6-3P	SRFW022-15-3P	SRFW022-18-3P (P1)	SRFW022-24-3P1 (P2)	SRFW022-3P3	SRFW022-3P3/2S
额定电流 Current	3X4A	3X8A	3X12A (15A)	3X15A (20A)	3X30A	3X30A+2X5A
长度L（mm）	21	33	35.4	43.2	52.5	52.5
导线规格 Lead Size	AWG22 PTFE	AWG20 PTFE	AWG16 PTFE	AWG14 PTFE	AWG12 PTFE	AWG12+AWG22

电气技术指标 Electrical Data

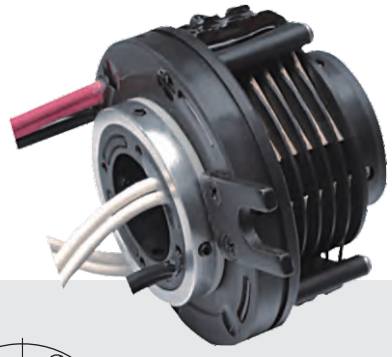
参数 Specification	数值 Values
路 数 No. of Circuits	3
额定电压 Rated Voltage	240VAC/ VDC
导线颜色顺序 Lead color code	红、黑、白 RED、BLK、WHT
导线长度 Lead Length	250mm或根据客户要求提供 250mm (or as request)
绝缘体强度 Dielectric Strength	500VAC@50Hz，60s
绝缘电阻 Insulation Resistance	500MΩ/500VDC
动态电阻变化值 Electrical Noise	<0.01Ω

机械技术指标 Mechanical Data

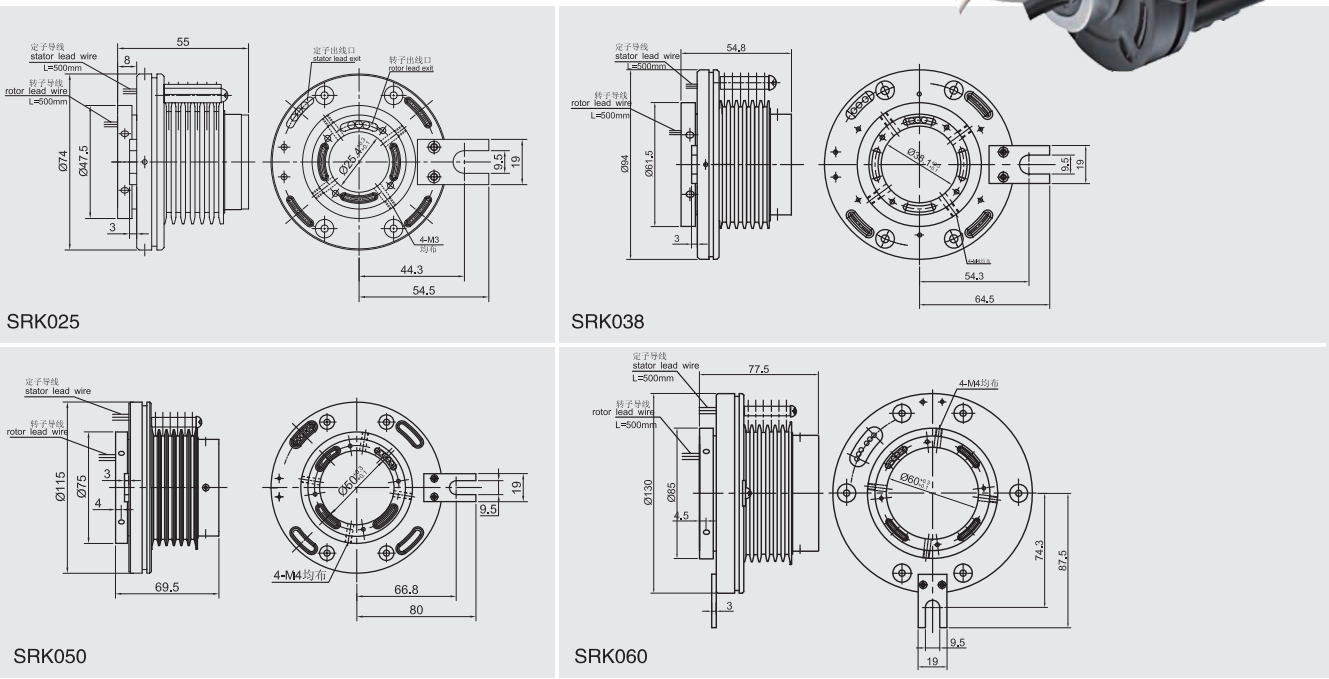
参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–40℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 Engineering Plastics

SRFK中小风电滑环 （适用于1兆瓦以下）

SRFK Series for Small to Mid-Sized Wind Turbine (1MW-)



外形尺寸 Outline Dimension



电气技术指标 Electrical Data

参数 Specification	SRFK025-3P		SRFK038-3P		SRFK050-3P			SRFK060-3P		
额定电流Rated Current	20A/环	40A/环	20A/环	40A/环	20A/环	40A/环	60A/环	20A/环	40A/环	60A/环
路　　数 No. of Circuits	3									
额定电压 Rated Voltage	0 – 380VAC/ 240VDC									
导线颜色顺序 Lead color code	红、黑、白 RED、BLK、WHT									
导线长度 Lead Length	500mm或根据客户要求提供　500mm (or as request)									
绝缘体强度 Dielectric Strength	500VAC@50Hz，60s									
绝缘电阻 Insulation Resistance	500MΩ/500VDC									
动态电阻变化值 Electrical Noise	< 0.01Ω									

注：P代表20A/环，P1代表40A/环，P2代表60A/环

机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	-40℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals

大风电滑环 （适用于1.5兆瓦及以上）

Slip Ring for Big-Sized Wind Turbine (1.5MW+)

SRFW164-25-XMV



特点Characteristic

每个环道采用多触点技术设计，结构设计小巧紧凑，部件安装简单，更换快捷抗振动设计，完全满足风车箱房中的振动要求，抗粉尘设计，完全满足沙漠使用中的防尘要求，瞬间驱动电流可达60A，多通道信号传输，抗干扰设计，防护等级 IP 65。

Multi points contact on each ring, compact structure Easy for installation and components replacement Anti-vibration design Peak current up to 60A Anti-interference design for signal tranmission IP class IP 65

可选项 Optionals

- 可传输Profibus，CANbus，Fast Ethemet等总线数码
- 标准铝制箱体和外壳
- 装配法兰置于转子端部，能很好地与风机现用减速机相配
- 可选择光纤数据传输 可选择增量式或绝对值式编码器
- 采用德国HARTING工业标准插口或按客户需要
- 至少5年内无需保养
- 使用寿命20年以上或1.5亿转

Able to transmit Profibus, CAN-BUS and Fast Ethemet Protocols Cast Aluminium frame and housing Mounting flange in rotor side, well mating to the reducer Optical channel available Incremental or absolute encoder available Use HARTING connectors or as request Free of maintenance in at least 5 years Life circle 20 years or 150 million revolutions

典型应用 Typical Applications

风力发电机 Wind turbine

电气技术指标 Electrical Data

参数 Specification	数值 Values	
额定电压Rated Voltage	主动力：550VDC；辅动力：240VAC；其它：24VDC Main power：550VDC；Supporting power：240VAC；Others：24VDC	
额定电流Rated Current	主动力：32A/环；辅动力：6A/环；其它：2A/环 Main power：32A/Ring；Supporting power：6A/Ring；Others：2A/Ring	
绝缘体强度Dielectric Strength	动力环 Power	≥2000VAC@50Hz，60s；
	信号环 Signal	≥500VAC@50Hz，60s；
绝缘电阻Insulation Resistance	动力环 Power	≥1000MΩ/500VDC
	信号环 Signal	≥500 MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ	

机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度Operating Temperature	-40℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
工作寿命Estimated Life Cycle	≥10 × 10^7转@30rpm
接触材料Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	金属 Metals
防护等级Protection level	IP65



农业机械滑环

Agricultural Machinery Slip Ring

应用范围Application Scope

农用机械 Agricultural machinery

产品规格Product Specifications

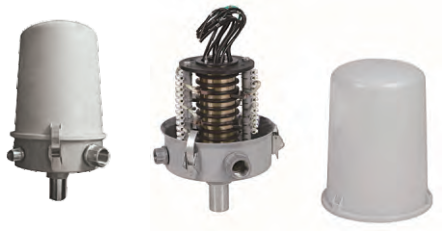
11通道滑环通常安装在设备的旋转中心，主要由旋转与静止两大部分组成。

11 channel slip ring is usually installed in the center of rotation of the device, is composed of two parts of rotating and stationary.

产品特点Product Features

喷灌机滑环通常安装在设备的旋转中心，主要由旋转与静止两大部分组成。旋转部分连接设备的旋转结构并随之旋转运动，称为“转子”，静止部分连接设备的固定结构的能源，称为“定子”。亚鼎电气在多个制造及使用领域技术突破并获得认可，等待您的咨询!

Watering machine slip ring is usually installed in the center of rotation of the device, is composed of two parts of rotating and stationary. Rotation structure of rotary part connecting device and rotates with the movement, known as the "rotor", the stationary part connecting device Fixing structure of energy, known as the "stator". Sub Ding electrical field of use technological breakthroughs and gaining recognition in many manufacturing and waiting for your inquiry!



电气技术指标 Electrical Data

参数 Specification	数值 Values
通路数Path number	11路或根据客户定制
额定电压Rated voltage	380VAC、240VAC/VDC
额定电流Rated current	25A/路
导线规格Wire specification	AWG12#
导线长度The length of the wire	/
绝缘电阻Insulation resistance	≥50MΩ/500VDC
绝缘体强度Insulator strength	1000VAC/50Hz,60s
动态电阻变化值Dynamic resistance value	/

机械技术指标 Mechanical Data

参数 Specification	数值 Values
工作速度The work speed	0~250rpm
工作温度Working temperature	-40℃~+80℃
工作湿度Operating humidity	95%RH 或更高 95%RH or higher
接触材料Contact material	碳刷接触Carbon brush contact
环体材料The ring body material	铸铁和工程塑料Cast iron and engineering plastics
固定方式Fixed mode	主轴固定The main shaft fixing
传动方式Transmission mode	主轴传动The spindle drive
出线方式Outlet way	端面出线End of line

SRS45H94184-6T抓棉机滑环

SRS45H94184-6T plucker Slip Ring





产品特点Product Features

该类滑环需根据客户的要求量身定制，通常结构比较复杂，多用于纺织机械及大型的机械设备上。

The slip ring is required according to the customer requirements tailored is usually more complex structure, higher technology products, used for military equipment and large mechanical equipment on.

电气技术指标 Electrical Data

参数 Specification	数值 Values
通路数Path number	6、8、12路或根据客户定制
额定电压Rated voltage	380VAC、240VAC/VDC
额定电流Rated current	25A/路
导线规格Wire specification	AWG12#
导线长度The length of the wire	/
绝缘电阻Insulation resistance	≥50MΩ/500VDC
绝缘体强度Insulator strength	1000VAC/50Hz,60s
动态电阻变化值Dynamic resistance value	/

机械技术指标 Mechanical Data

参数 Specification	数值 Values
工作速度The work speed	0~250rpm
工作温度Working temperature	-40℃~+80℃
工作湿度Operating humidity	95%RH 或更高 95%RH or higher
接触材料Contact material	碳刷接触Carbon brush contact
环体材料The ring body material	铸铁和工程塑料Cast iron and engineering plastics
固定方式Fixed mode	主轴固定The main shaft fixing
传动方式Transmission mode	主轴传动The spindle drive
出线方式Outlet way	端面出线End of line

整体式滑环 Integral Slip Ring



产品特点Product Features

该类滑环需根据客户的要求量身定制，通常是结构比较复杂，技术含量比较高的产品，多用于军事设备及大型的机械设备上。

The slip ring is required according to the customer requirements tailored is usually more complex structure, higher technology products, used for military equipment and large mechanical equipment on.

电气技术指标 Electrical Data

参数 Specification	数值 Values
通路数Path number	4路
额定电压Rated voltage	380VAC、240VAC/VDC
额定电流Rated current	25A/路
导线规格Wire specification	–
导线长度The length of the wire	–
绝缘电阻Insulation resistance	≥500MΩ/500VDC
绝缘体强度Insulator strength	1500VAC/50Hz,60s
动态电阻变化值Dynamic resistance value	<0.01Ω

机械技术指标 Mechanical Data

参数 Specification	数值 Values
工作速度The work speed	0~500rpm
工作温度Working temperature	-20℃~+80℃
工作湿度Operating humidity	60%RH 或更高60%RH or higher
接触材料Contact material	碳刷接触Carbon brush contact
环体材料The ring body material	PC
固定方式Fixed mode	止转片固定The rotation stopping piece is fixed
传动方式Transmission mode	主轴传动The spindle drive
防护等级Protection grade	IP51

气(液)电组合滑环系列

PNEUMATIC/HYDRAULIC HYBRIC SLIP RING

特点Characteristics

电信号与气路、液路混走； 结构紧凑

Electrical and pneumatic, liquid mixing; Compact structure

典型应用 Typical Applications

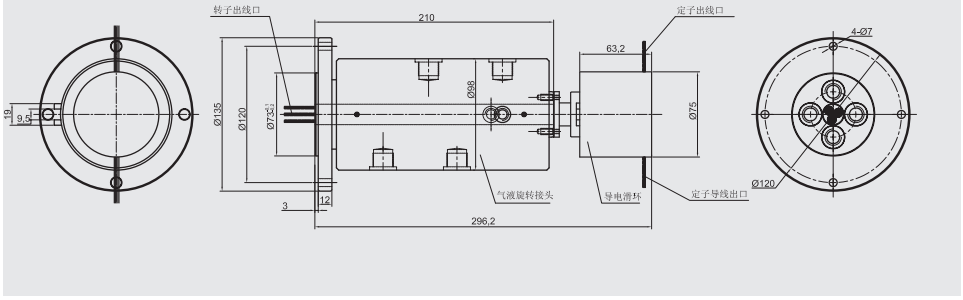
钢包运转台 Ladle running machine

可选项 Option

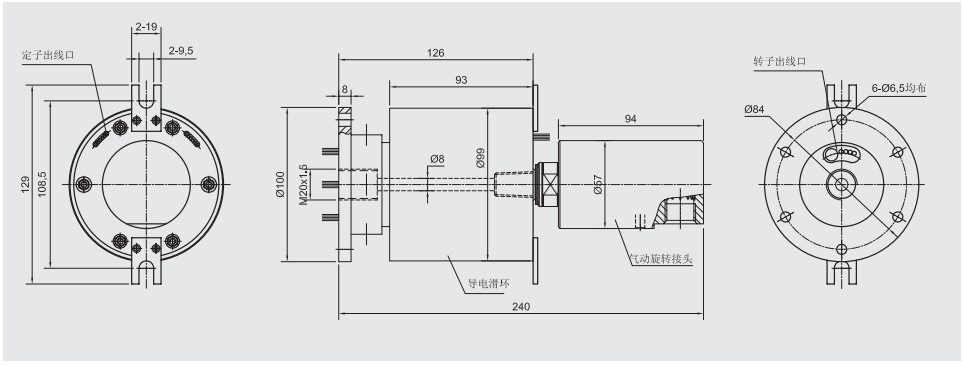
电、气、液路数、电缆长度、气路、液路的工作介质及工作压力、额定转速

Electricity, gas, liquid, cable length, gas, liquid working pressure, working medium and rated speed

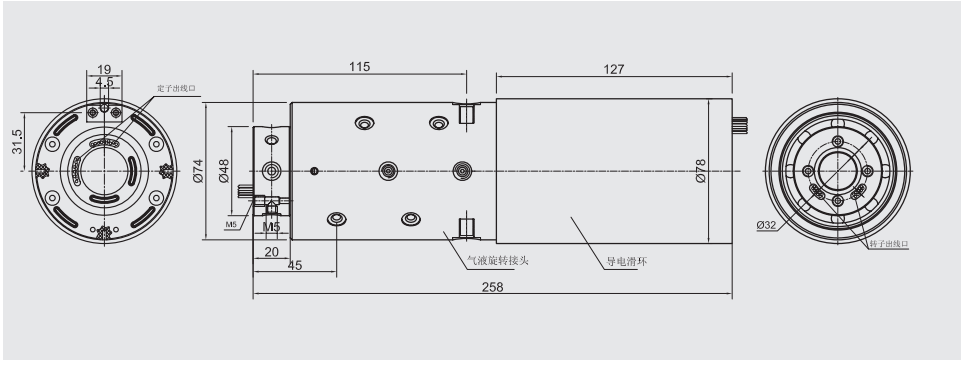


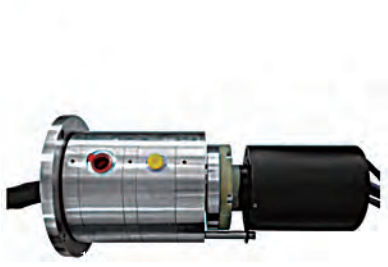


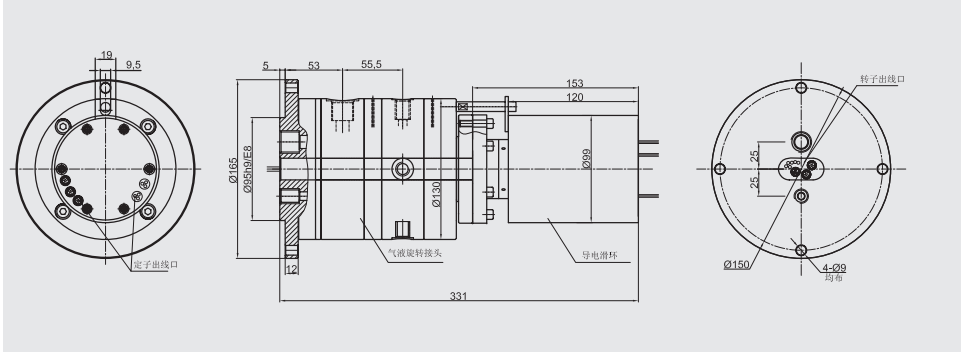












FORJ光钎滑环系列

FORJ FIBER OPTIC ROTATING JOINT

特点 Features

用于单模或多模系统的光电旋转连接 • 完全的双向旋转 • 与现有的电气滑环设计相融合 • 全封闭结构 • 能为客户量身定制所需要的产品

Optical and electrical rotary connection for single mode or multi mode systems Bidirectional Integrated FORJ with electrical slip ring Full closed structure

Able to offer customized solutions

可选项 Optionals

各种光纤尺寸和跳线长度 Various fiber types and pigtail lengths

光通道数 Number of optical channels

光纤类型 Fiber type

光纤接头 Connector type

光纤长度 Fiber length

典型应用 Typical Applications

长距离(>10km)传输 Long distance data transmission

高速数据传输 High speed data transmission

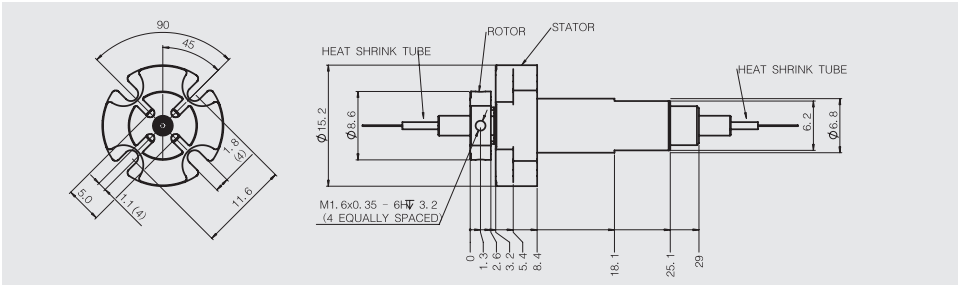
型号选用说明Model explanation

FO RJ 101 - 131 - 28 - ST

- ST接头形式 ST connector type
- 光纤类型（可选） fiber type（Optional）
- 光纤工作波长为1310nm wavelength1310nm
- 单通道，01型 one channel, 01type
- 旋转接头 Rotary Joint
- 光纤 Fiber Optics

FORJ101微型光纤旋转接头 FORJ101 miniature size





技术指标 Technical Data

参数 Specification	数值 Values			
型号 Model	FORJ101	FORJ102	FORJ103	FORJ104
波长范围 Wavelength range	650–1650 nm		850–1650 nm	
插损 Insertion loss	<2 dB (典型值typica : <0.5 dB)		<3dB	
插损偏差 Insertion loss ripple	< ± 0.25 dB (典型值typica: ± 0.15 dB)			
回损 Return loss	>40 dB (典型值typica: 45 dB, 23 C)		>30 dB	
最大转速 Maximum speed	2,000 rpm			
抗拉强度 Pulling strength	10 N (900 um 外护套buffer)			
启动扭矩 Start up torque	<0.01 Nm			
使用寿命 Estimated life cycle	200–400 million revolutions			
允许最大光功率 Optical power handling	23 dBm			
工作温度 Working temperature	–40 – 65℃			
存贮温度 Storage temperature	–50 – 85℃			
封装型式 Package style	两端尾纤Pigtails on both ends			
壳体材料 Housing material	不锈钢Stainless Steel			
光纤类型 Fiber types	单模光纤或多模光纤 3mm外护套 Single or multimode w/3 mm jacket (Kevlar/PVC)			
连接器类型 Connector types	FC, SC, ST, SMA, or LC(and APC finishes)		ST座	FC座
重量 Weight	10 g	≈50 g	≈50 g	≈50 g
振动 Vibration	MIL–STD–167–1A			
机械冲击 Mechanical shock	MIL–STD–810G			
防护等级 IP rating	IP 68			

SHFRJ 高频滑环

SHFRJ High Frequency Slip Ring

特点 Features

体积小 Small in size　频率高 High frequency　重量轻 Lingth in weight　衰减少 Low attenuation　插损小Low insertion loss

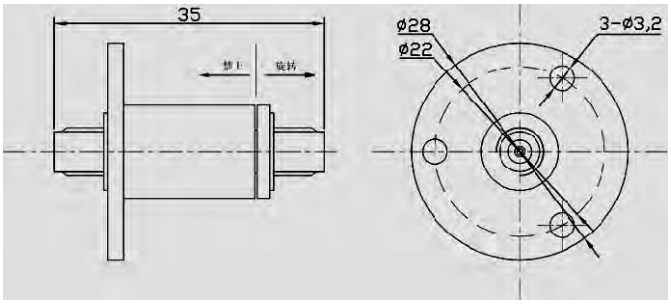
可选项 Optionals

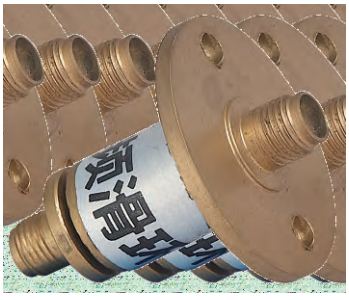
连接电缆 Free lead connection　法兰尺寸 Flange dimension

典型应用 Typical Applications

模拟高频电子系统，如：雷达、天线、视频等信号的传输
Analogue high frequency electronic system like radar, antenna etc.

外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm





参数 Specification	数值 Values
频率范围(GHz) Frequency range	0~6
	0~12.4
VSWR电压驻波比 Max VSWR WOW/360 degrees	1.3
驻波比动态变化值Insertion loss	0.05
插入损耗dB(Max)	0.2
插入损耗动态变化值Insertion loss –wow dB(Max)	0.05
峰动力(kW) Peak power	2
平均（W@1.0GHz） Average power	50
额定转速 Rated Speed(rpm)	200
接头形式Connectors	SMA

型号说明 Model Explanation

S　HFRJ　6　–　SMA

- SMA型接头 SMA connector
- 频率范围DC–6GHz Frequency range 0–6GHz
- 高频旋转接头 High Frequency Rotary joints
- 单通道 Singal Channel

SRD040–3P/17S 盘式导电滑环

SRD040–3P/17S Pancake Slip Ring



特点 Features

厚度小，节省空间
Low in height
动力及信号混走
Combination of power and signal transmission
抗干扰设计
Anti–interference

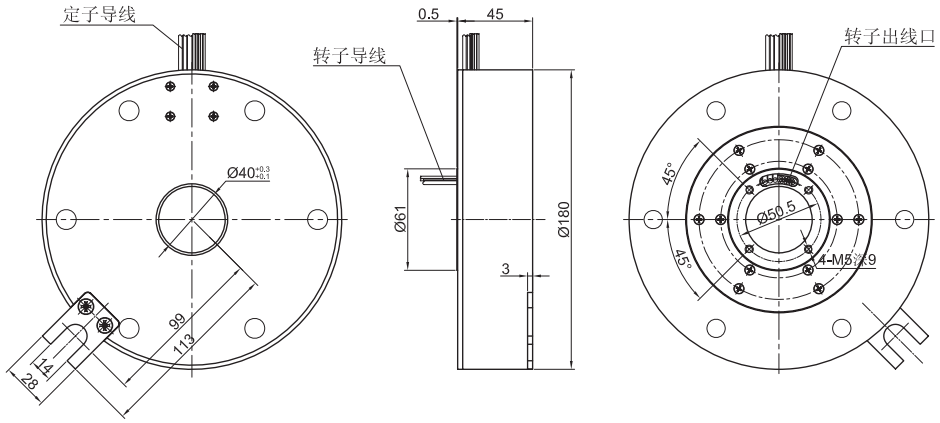
可选项 Optionals

导线长度 Lead length
端子类型 Terminal type
安装方式 Way of installation

典型应用 Typical Applications

旋转门 Revolving door

外形尺寸 Outline Dimension



电气技术指标 Electrical Data

参数 Specification	数值 Values
路 数 NO. of Circuits	20
额定电流 Rated Current	15A/路，3路；5A/路，17路 15A/ring (power),3 rings;5A/ring (signal),17rings
导线规格 Lead Size	镀锡导线、铁氟龙绝缘AWG16 tin plated, PTFE insulated or PVC
导线长度 Lead Length	500/1000mm或根据客户要求提供 500/1000mm (or as request)
绝缘体强度 Dielectric Strength	500VAC@50Hz，60S
绝缘电阻 Insulation Resistance	≥500MΩ/500VDC

机械技术指标 Mechanical Data

参数 Specification	数值 Values
额定转速 Rated Speed	0~250rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminum
防护等级 Protection level	IP51

水银滑环系列
MERCURY SLIP RING



构造与功能Structure and Function

旋转连接器利用特殊密封，绝缘及导电技术制成，其外外壳为阳极处理铝合金或不锈钢材料。用於任何旋旋转体之信号如微小电压、电流、EMF、热电偶、Strain gauge、影音讯号、高频、电脑讯号及电力的接须。另有符合CE RoIlS规格之产品，请来电洽谈。

The Asiantool rotating electrical connectorsare using the special insulation，sealings，andconductive technologies. The out case material is the alumi–num alloy or stainless steel. Theyareusedforanykindofrotatingobejects of signals like micro voltage，current，EMF，thermo couple，strain gauge，audio，video，high frequency etc and electric power connections. All types can fill CE RoIlS liquid metal，please contact US，for details.

用途 Application

旋转工作盘之信号及电力之接入
电阻切割机
水平镀铜线
旋转舞台
电缆卷筒
圆形珍机械
染色设备
机器手臂
旋转灯箱

手术灯
旋转镀银线
旋转摄影机
包装机
热滚机
压模机
绕线机
LED广告灯
风力发电机
管内摄影机

・Index table for signal and power connection
–Resistors cutting machine
–Speed dome camera
–Package machine
–Heating roller
・Lamilating
・Winding machine
・Spinning LED sign board
–Wind turbines
・Electro plating line
–Rotary stage
・Cable wheel
・Circle knitting machine
–Coloring device
–Robots
・Rotary lampbox
–Medical Equipments



技术规格 Technical Data

型号 Model	级数 Conductor poles	电流 Current Amp	耐压 Voltage AC/DC V	频率 Max.Freq MHZ	最大转速 Max.RPM	使用温度 The use of temperature	转矩 Rotation moment	绝缘阻抗 Insulation Resistance
A1M	1	10		200	3600	60/–30	35	
A1MT	1	10		200	3600	60/–30	35	
A1M2	1	20		200	2000	60/–30	50	
A1M5	1	50		200	1800	60/–30	70	
A1HH	1	250		200	1200	60/–30	250	
A1H25S	1	250		200	1200	60/–30	250	
A1H25PS	1	250		200	1200	60/–30	250	
A1H35S	1	350		200	800	60/–30	300	
A1H50PS	1	500		200	300	60/–30	700	
A1H65S	1	650		200	200	60/–30	1000	
A1H65PS	1	650		200	200	60/–30	1000	
A1H90PS	1	900		200	200	60/–30	1100	
A1H150PS	1	1500		200	100	60/–30	2000	
A1H300PS	1	3000		200	30	60/–30	3000	

技术规格 Technical Data

型号 Model	级数 Conductor poles	电流 Current Amp	耐压 Voltage AC/DC V	频率 Max.Freq MHZ	最大转速 Max.RPM	使用温度 The use of temperature	转矩 Rotation moment	绝缘阻抗 Insulation Resistance
A1H500FS	1	5000		200	50	60/−30	4000	
A1H750FS	1	7500		200	50	60/−30	6000	
A2S	2	4	250	200	2000	60/−30	75	> 25MΩ
A3S	3	4	250	200	1800	60/−30	100	> 25MΩ
A3S−W	3	4	250	200	1800	60/−30	100	> 25MΩ
A4S−W	4	4	250	200	1200	60/−30	150	> 25MΩ
A2H	2	30	250	200	1800	60/−30	200	> 25MΩ
A3H	3	30/4	250	200	1800	60/−30	200	> 25MΩ
A3M−W−W	3	40	250	200	1800	60/−30	200	> 25MΩ
A3H	3	30	250	200	1200	60/−30	400	> 25MΩ
A4H	4	30/4	250	200	1200	60/−30	400	> 25MΩ
A6H	6	30/4	250	100	300	60/−30	700	> 25MΩ
A8H	8	30/4	250	100	200	60/−30	1000	> 25MΩ
A1030	10	30/4	250	100	100	60/−30	1500	> 25MΩ
A1230	12	30/4	250	100	60	60/−30	2000	> 25MΩ
A1430	14	30/4	250	100	60	60/−30	2000	> 25MΩ
A2H6	2	60	250	200	600	60/−30	400	> 25MΩ
21005W	7	100/4	250	100	100	60/−30	1500	> 25MΩ
A2HV	2	30	500	100	400	60/−30	400	> 25MΩ
A3HV	3	30	500	100	300	60/−30	700	> 25MΩ
A4HV	4	30	500	100	200	60/−30	1000	> 25MΩ
A5HV	5	30	500	100	100	60/−30	1500	> 25MΩ
A6HV	6	30	500	100	60	60/−30	2000	> 25MΩ
A7HV	7	30	500	100	60	60/−30	2000	> 25MΩ

ZS 中心集电器 ZS Collector Rings


C62型


C2型


C1型

产品介绍 Product Introduction

中心集电器就是将电力从固定设备传送到转动设备的一种装置，通过弹簧压缩碳刷,使之与铜环永久接触,确保电流转换稳定。产品主要用于相对部件作圆周运动时的动力传输和信号传导。例：港口门座式起重机，固定吊等具有旋转要求

Central collector is to transfer power from a fixed equipment to a device of rotating equipment, through the spring compression carbon brush, make contact with the copper ring permanent, ensure a steady current conversion. Products are mainly used for relative parts make circular motion of the power transmission and signal transduction. Example: the port portal crane, fixed crane with rotation requirement

型号选用说明 Model Explanation

ZS–C □ – □ X□□ + □ X □□ + □ X □□

- 滑环数 Slip ring number
- 滑环电流 The slip ring current
- 滑环数 Slip ring number
- 滑环电流 The slip ring current
- 滑环数 Slip ring number
- 滑环电流 The slip ring current
- 设计序号 Design a sequence number
- 垂直传动中心集电器 Vertical transmission center collector

尺寸及电流 The Size and Current

传动方式 The transmission way	型 号 model	穿孔直径A Perforation diameter a.	穿孔直径B Perforation diameter B	外形尺寸 Overall dimensions	传动爪外径D Drive claw diameter D	滑环电流额定值 Slip ring current rating		
下传动	ZS–C1(C61)	Φ140	Φ380	Φ425	Φ200	400A	63A	10A
	ZS–C3	Φ190	Φ450	Φ500	Φ260	630A	63A	10A
上传动	ZS–C2(C62)	Φ140	Φ380	Φ425	Φ200	400A	63A	10A
	ZS–C4	Φ140	Φ450	Φ500	Φ260	630A	63A	10A

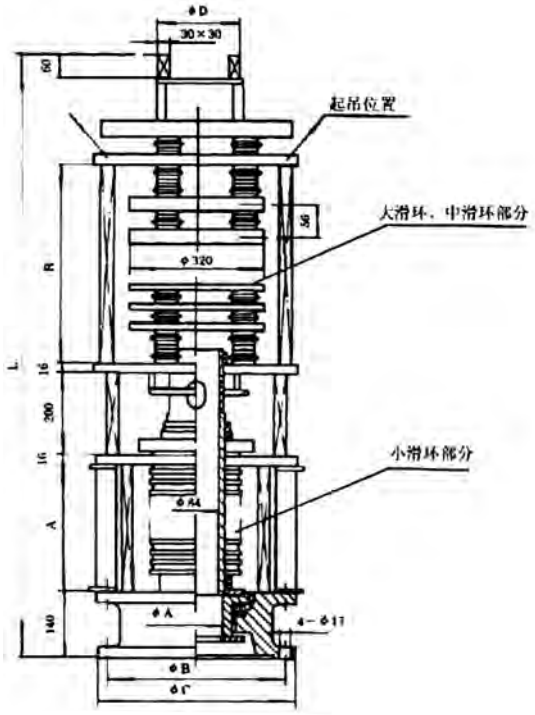
刷架导线配置表 Brush Holder Conductor Configuration Tables

滑环种类 Slip Ring Type	单环承载电流 Monocyclic Loading Current	导线面积（平方毫米） Conductor (square Millimeters)	碳刷数量 Number Of Carbon Brush
大滑环	630	150或2 X 75	4
	400	120	3
中滑环	63	16	2
小滑环	10	2.5	1

滑环数量n取值表 Slip Ring Number N Value Table

集电器型号 Collector Type / 滑环电流 The Slip Ring Current	ZS-C1	ZS-C2	ZS-C3	ZS-C4	ZS-C61	ZS-C62
630A	-	-	1-10	1-10	-	-
400A	1-10	1-10	1-40	1-40	1-50	1-50
63A	1-40	1-40	-	-	1-50	1-50
10A	1-60	1-60	1-60	1-60	-	-

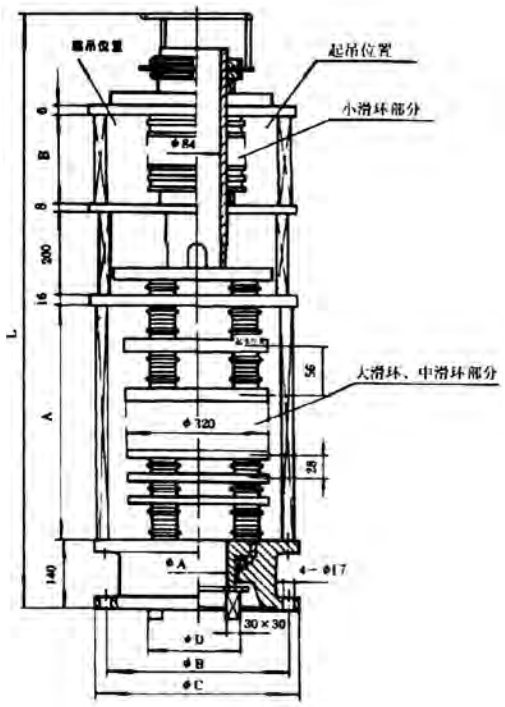
上传动型集电器
On The Drive Type Collector



C2C4总高度 L=632+A+B
A=12C+54
B=56a+28b+48+(28)
C62总高度L=56a+28b+430+(28)
其中：a为大滑环数，b为中滑环数
c为小滑环数，当b>0时加尾项28

C2C4 total height = 632 L + A + B
A = 12 c + 54
B = 56 48 + a + B + 28 (28)
C62 total height L = 56 a + b + 28 430 + (28)
For the large number of slip ring: a, b for the slip ring
C for a small number of slip ring, 28 item when b > 0 and tail

下传动型集电器
The Transmission Type Collector



C1C3总高度 L=543+A+B
A=12C+61
B=56a+28b+48+(28)
C61总高度L=56a+28b+385+(28)
其中：a为大滑环数，b为中滑环数
c为小滑环数，当b>0时加尾项28

C1C3 total height = 543 L + A + B
A = 12 c + 61
B = 56 48 + a + B + 28 (28)
C61 total height L = 56 a + b + 28 385 + (28)
For the large number of slip ring: a, b for the slip ring
C for a small number of slip ring, 28 item when b > 0 and tail

SRN特殊滑环系列

CUSTOMERIZED SLIP RING

目录中未涉及到的一些非标类滑环，结构复杂或技术含量较高的产品，请提供您的技术要求，我方资深技术会为您量身研发定制，尽最大努力满足您的需求，打造完美的解决方案。

客户定制产品需提供的技术要求

The following data should be provided by customers

路数(包括动力环和信号环)

No. Of Circuits (Power & Signal)

有无过孔要求，孔径大小(mm)

Need through bore? Diameter of through bore?

最大额定电压、电流(包括动力和信号)

Rated Voltage/Current

传输方式(动力、信号或数据)

Transmission Type (Power, Signal or Data)

转数(rpm)

Rotation Speed

外型尺寸要求，外径长度(mm)

Dimension: Outside Diameter and Length

连接方式

Connecting Way

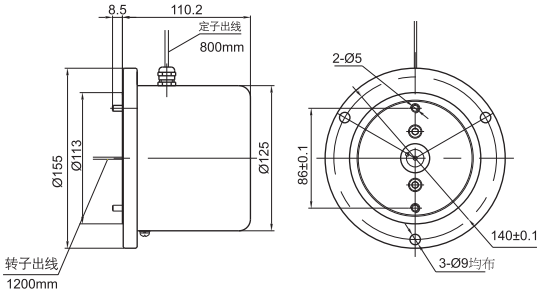
防护等级

IP Class



工程机械滑环 Engineering Machinery Slip Ring





- 全金属结构，高精度高防震设计；
- IP68防护等级设计；
- 独特接触设计提供更长的寿命及免维护稳定运作
- (无需润滑剂)
- 快速接插件设计，安装方便快
- 超广的工作温度范围。

特点及优势
Features and Advantages

为为满足户外工程机械使用．我公司专门研究了一款高可靠性的渭环，该渭环采用国际最先进的贵金属多触电接触技术．使其具有低电阻．低磨损，高可靠，超长寿命等特点。本产品具有高防护等级IP68.高防震设计及超广的温度适应范围．能够应对多变复杂的户外工作环境．且被广泛应用在：吊车吊臂、挖掘机、港口机械、包装机、机器人等。满足户外工程机械使用。

In order to meet the engineering machinery for outdoor use. Our company specialized research a high reliability of the Wei Wei ring, ring adopts the international advanced precious metal electric shock Contact technology. So it has a low resistance. Low abrasion, high reliability, long life and other characteristics. This product has a high protection grade IP68. high shockproof design and temperature ultra wide range. Able to work outdoors to the changeable environment complex. And is widely used in: suspension arm of crane, excavator, port machinery, packing machine, robot. Meet the outdoor engineering machinery use.



电气技术指标 Electrical Data

参数 Specification	数值 Values
通路数Path number	2、4、6、8、12路或根据客户定制多路
额定电压Rated voltage	380VAC、240VAC/VDC
额定电流Rated current	20A/路
导线规格Wire specification	14AWG
导线长度The length of the wire	定子800mm，转子1200mm；
绝缘电阻Insulation resistance	≥500MΩ/1000VDC
绝缘体强度Insulator strength	1000VAC/50Hz,60s
动态电阻变化值Dynamic resistance value	<0.01Ω

机械技术指标 Mechanical Data

参数 Specification	数值 Values
工作速度The work speed	0~250rpm
工作温度Working temperature	-40℃~+80℃
工作湿度Operating humidity	95%RH 或更高
接触材料Contact material	贵金属
环体材料The ring body material	A3钢
固定方式Fixed mode	安装孔固定
传动方式Transmission mode	下传动
防护等级Protection grade	IP68

电线电缆设备滑环系列 Wire and Cable Equipment Slip Ring



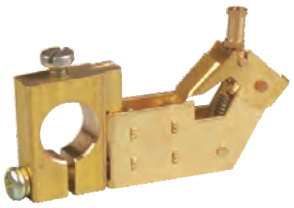
本公司生产电线电缆设备专用集电环、集电环总成品种全，规格多，以上图片仅供参考。请登录公司网站了解更多的信息。欢迎来电洽谈、选型定制。

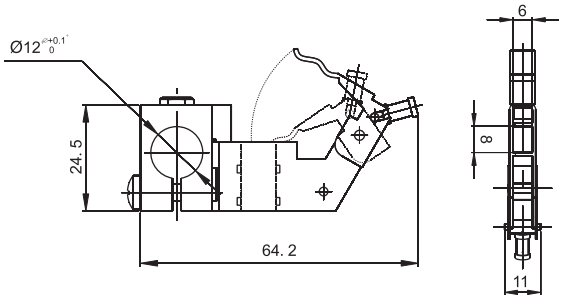
The company is the production of wire and cable equipment special ring collector, collector ring final full, specifications above pictures are for reference only. Please visit our website for more information. Welcome calls to negotiate, selection of custom.

碳刷架系列
BRUSH HOLDERS

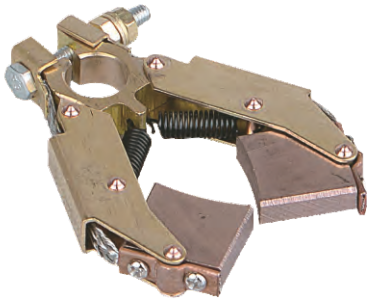


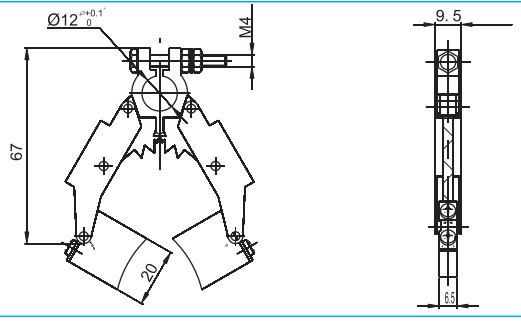
铜刷架系列 The copper brush holder series





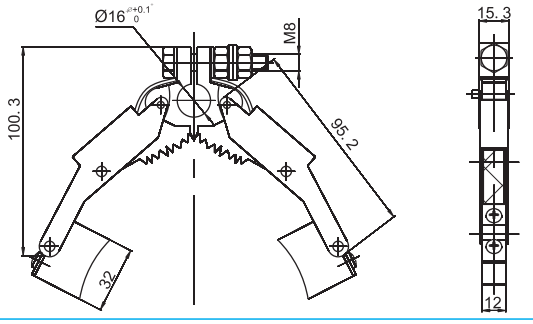
CBH68C



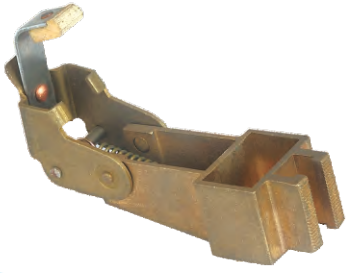


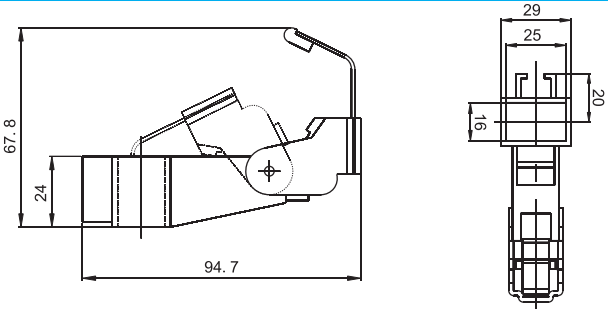
CBH6.520C





CBH12.532C



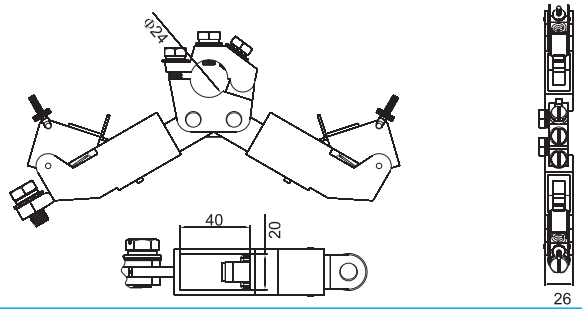


CBH1625C

铜刷架系列 Copper Brush Holder

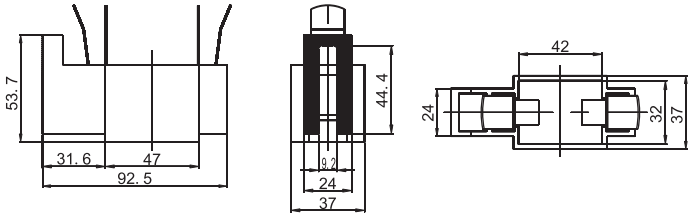


CBH2040C



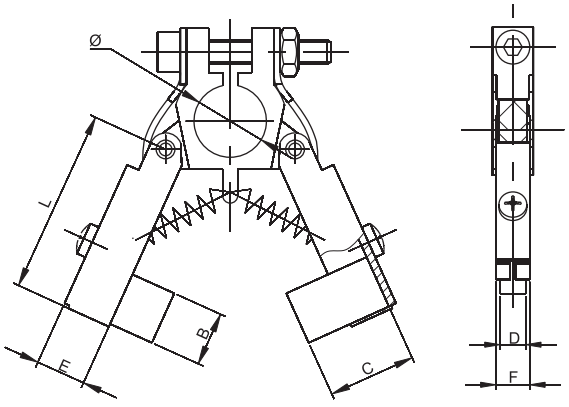


CBH3242C





“V”字型系列



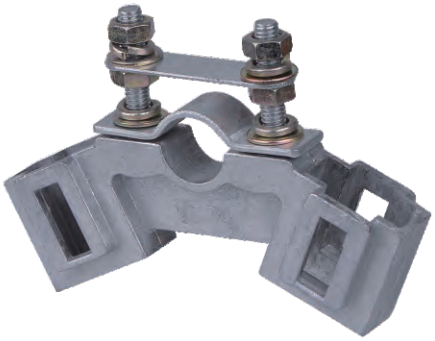
Model	L	E	F	ϕ	D	B	C
CBH59VC	30	7	8	10	5	9	16
CBH612VSC	42	9	8	12	6	12	20
CBH812VC	57.5	12	10	8.5	8	12	20
CBH822VC	58	9.7	10.2	12	8	22	34.5
CBH810VC	71	10.3	10.5	12	8	10	25
CBH612VBC	73	9.4	8	12	6	12	20
CBH12.532VC	81	10	14.4	16	12.5	32	24.4

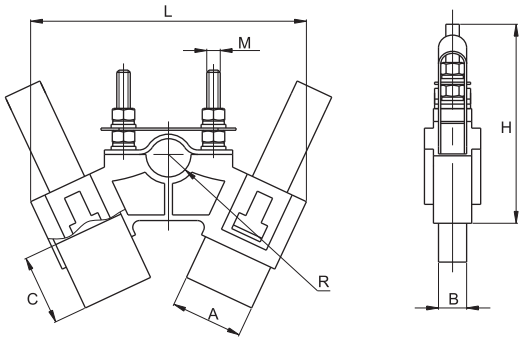
型号说明 Model explanation

CBH 5 9 V C

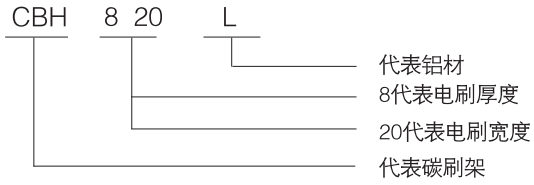
- C 代表铜材
- V 代表V字型
- 5 代表电刷厚度
- 9 代表电刷宽度
- CBH 代表碳刷架

铝刷架系列 Aluminum Brush Holder





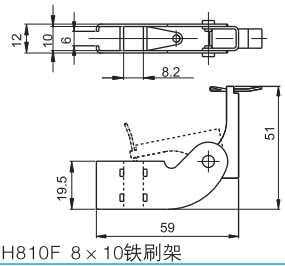
型号说明 Model explanation



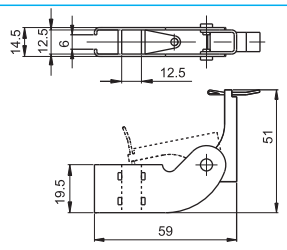
Model	L	M	R	M	B	A	C
CBH12.532L	122	87.5	20	m8	12.5	32	50
CBH2040L	161	110	24	m10	20	40	60
CBH820L	97	68	16	m6	8	20	32
CBH1025L	106	73	16	m6	10	25	40
CBH2050L	191	115	25	m10	20	50	58

铁刷架系列 Iron Brush Holder



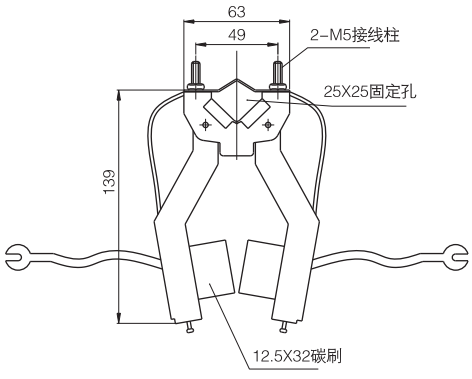


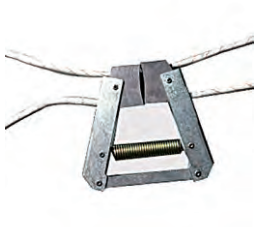
CBH810F 8×10铁刷架



CBH12.512.5F 12.5×12.5铁刷架



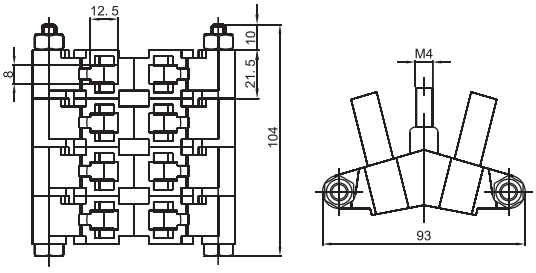




树脂刷架系列 Resin Brush Holder



8 × 12 4组树脂刷架



L = 10 + 4.7 + 22.8 ×n

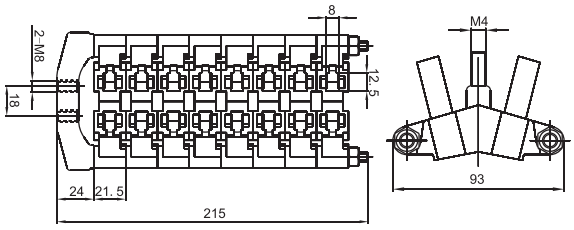
产品总长 | 产品右端到螺杆右端的距离 | 产品左端到螺杆左端的距离 | 每个产品的厚度 | 产品组数

其中n≥2，n为产品组数，可根据客户要求定制。

CBH812–4R



8 × 12 8组树脂刷架带铁架隔片



L = 8 + 30 + 30.5 ×n

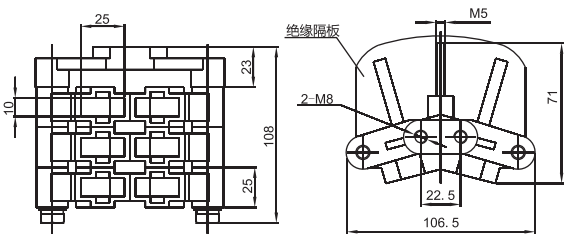
产品总长 | 产品右端到螺杆右端的距离 | 产品左端到螺杆左端的距离 | 每个产品的厚度 | 产品组数

其中n≥2，n为产品组数，可根据客户要求定制。

CBH812–8HSR



10 × 25 3组树脂刷架带铁架隔片

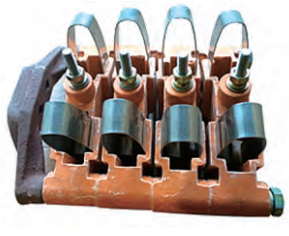


L = 8.5 + 23 + 22.8 ×n

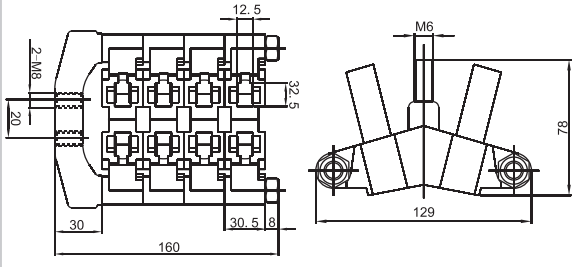
产品总长 | 产品右端到螺杆右端的距离 | 产品左端到螺杆左端的距离 | 每个产品的厚度 | 产品组数

其中n≥2，n为产品组数，可根据客户要求定制。

CBH1025–3HSR



10 × 25 4组树脂刷架带铁架隔片



L = 8 + 30 + 30.5 ×n

产品总长 | 产品右端到螺杆右端的距离 | 产品左端到螺杆左端的距离 | 每个产品的厚度 | 产品组数

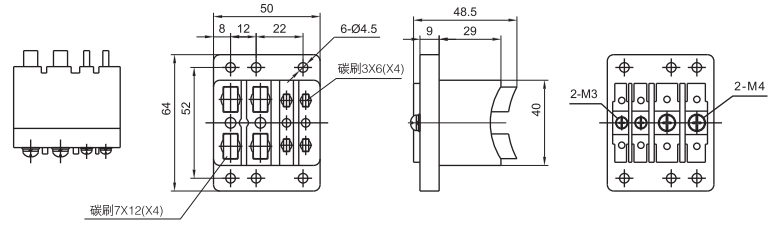
其中n≥2，n为产品组数，可根据客户要求定制。

CBH12.532–4HR

胶木富士刷架系列 Bakelite Brush Holder



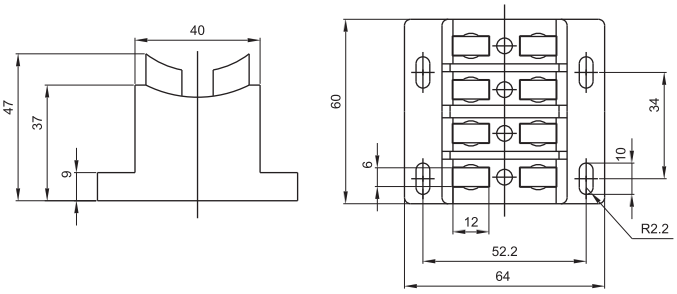
两大两小胶木刷架



CBH2B2SB



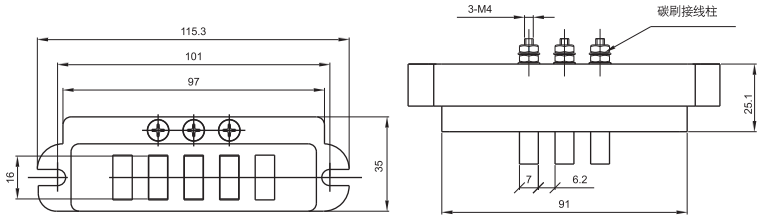
四组胶木刷架



CBH4B



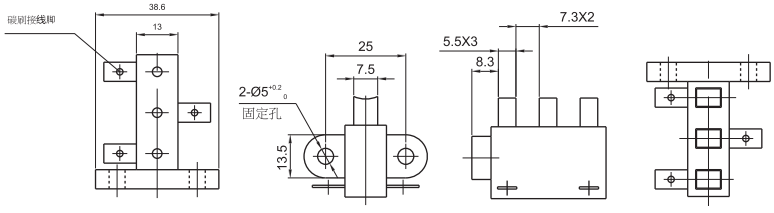
五孔三电刷



CBH5H3BB



6×7胶木刷架

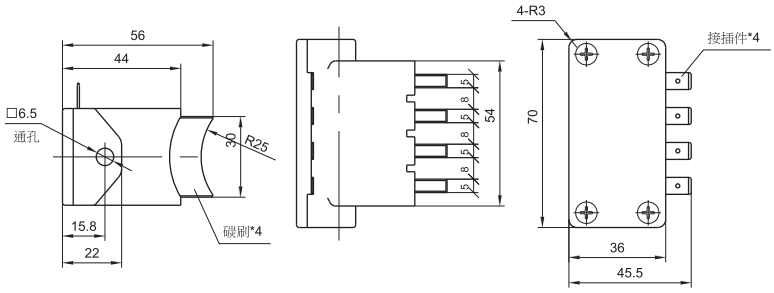


CBH12.532-4HR

胶木富士刷架系列 Bakelite Brush Holder



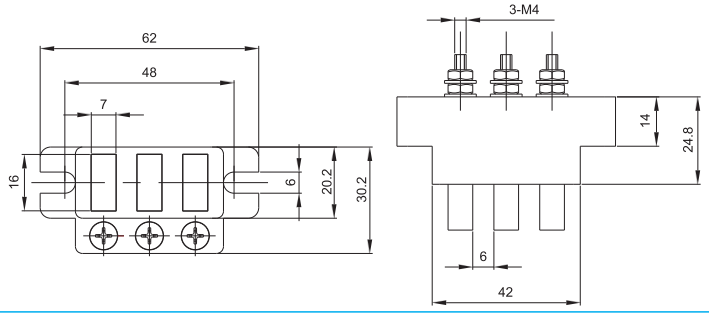
5 × 30胶木刷架带接线端子



CBH530BT



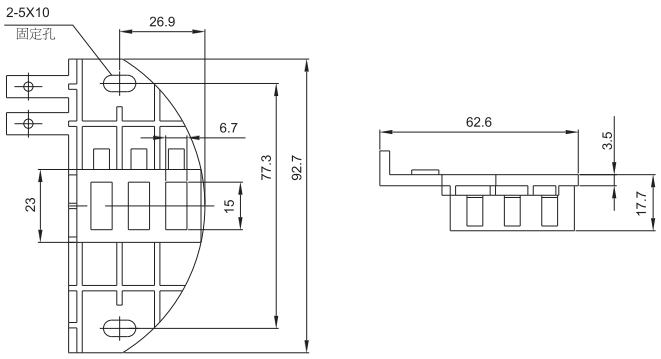
7 × 16胶木刷架带接线端子



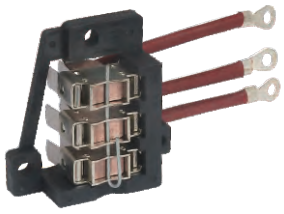
CBH716B



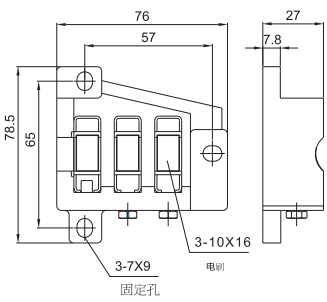
半圆形刷架



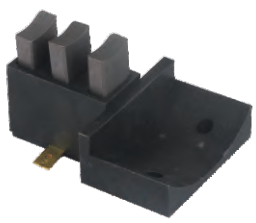
CBH12.532–4HR



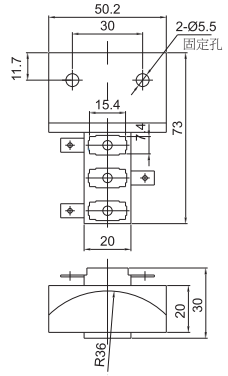
10 × 16一体式刷架



CBH1016B



90度胶木刷架



CBHVB

电刷系列
CARBON BRUSH



电机碳刷性能参数 Carbon BrushPerformance Parameters

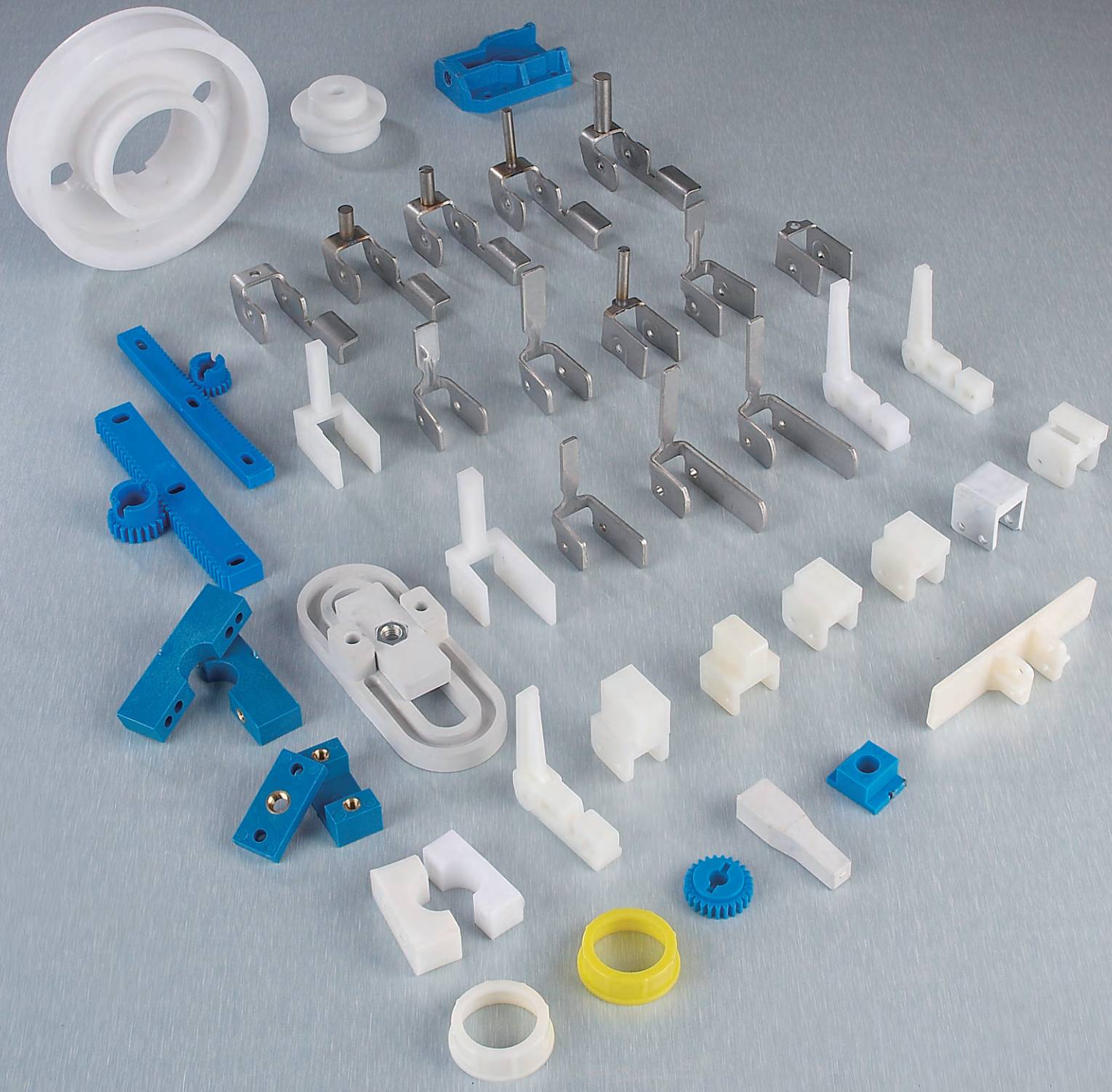
类别 Claass	型号 Grade	电阻系数 Resisti-vity	洛氏硬度 Rockwell hardness	体积密度g/cm³	短路换向器实验 Short-circuit commtator test.			工作条件 Operatin Condition			主要用途 Typical Application
					一对电刷的接触电压降 Voltage drop for pair brush (V)	系数摩擦 Coef friction (≤)	50小时磨损值 Wear Value in 50 Hrs. (mm)	额定电流密度 Rating Current density (A/cm²)	允许圆周速率 Allowable periph-eral speed (m/s)	使用时单位压力 Pressure in use (kPa)	
金属石墨类Metal graphith	J102	0.24	85(392)	4.91	0.5	0.2	0.4	20	20	17.6～22.5	直流发电机和交流异步电动机集电环 DC generator and the AC asynchr-onous motor collector ring
	J105	0.06	88(392)	6	0.4	0.25	0.8	20	20	17.6～22.5	电触点cnotacts.
	J164	0.1	75(392)	5.54	0.3	0.2	0.7	20	20	17.6～22.5	低电压直流发电机和变速电机电环 Low voltage DC generator and gear ring of electric motor
	J201	3.5	90(588)	2.95	1.5	0.25	0.18	15	25	14.7～19.6	60V以下的直流发电机和直流电焊机等 Under 60V DC generator and DC electric welding machine etc.
	J203	8.8	75(588)	2.21	1.8	0.25	0.15	12	20	14.7～19.6	80V以下的直流电机，小型牵引电动机和异步电动机集电环。 DC motor under 80V, small traction motor and asynchronous motor collector ring.
	J204	0.62	95(588)	4.04	1.1	0.2	0.3	15	20	19.6～24.5	40V以下的大电流直流电机，汽车起动机和异同步电机集电环。High current DC motor under 40V, automotive starter and async-hronous and syn chronous motor collector ring.
	J205	6	87(588)	3.2	≥0.20	0.25	0.5	15	35	14.7～19.6	60V以下的大电流直流电机，汽车起动机和异同步电机集电环。 High current DC motor under 60V, automotive starter and asynchron-ous and synchronous motor collec-tor ring.
	J206	4	93(588)	2.7	1.5	0.2	0.3	15	25	14.7～19.6	
	J151	0.09	71(392)	5.6	0.3	0.2	0.6	25	20	17.6～22.5	低电压，高电流密度的电机，绕线式电动机，汽车起动电动机，高电流密度集电环。 Low voltage, high current density of the motor, win-ding motor, auto starting motor, high current density collector ring.
	J220	6	90(392)	2.23	1.4	0.2	0.26	12	20	14.7～19.6	电压20-50伏的小型快速电机 Small fast motor voltage of 20-50 volts.
	J230	1.2	96(588)	4	0.85	0.2	0.25	15	35	14.7～19.6	汽车起动机和同步电机的集电环。 Collector ring starter motor and synchronous motor.
	J241	2.6	82(588)	3.2	1.2	0.25	0.3	15	35	14.7～19.6	
	J350	2.4	89(588)	3.5	1.2	0.3	0.8	15	20	14.7～19.6	交流测速电机和交自流微电机 AC motor speed and AC DC micro motor.
	J370	0.41	84(588)	4.8	0.73	0.28	2	15	20	14.7～19.6	
	J380	0.16	81(392)	5.8	0.31	0.25	4	20	15	14.7～19.6	讯号装置的电触点，交直流微型电机 The electrical contact signal device, AC and DC micro motor.
	J390	0.07	52(588)	6.5	<0.2	0.25	9	20	15	14.7～19.6	
	J390-1	≥0.15	100(588)	6.4	≥0.3	0.25	0.5	20	15	14.7～19.6	

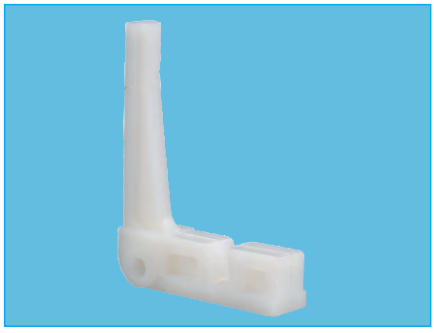
电机碳刷性能参数 Carbon BrushPerformance Parameters

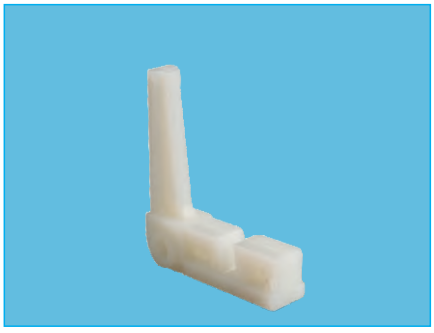
类别 Claass	型号 Grade	电阻系数 Resisti-vity	洛氏硬度 Rockwell hardness	体积密度g/cm³	短路换向器实验 Short-circuit commtator test.			工作条件 Operatin Condition			主要用途 Typical Application
					一对电刷的接触电压降 Voltage drop for pair brush (V)	系数摩擦 Coef friction (≤)	50小时磨损值 Wear Value in 50 Hrs. (mm)	额定电流密度 Rating Current density (A/cm²)	允许圆周速率 Allowable periph-eral speed (m/s)	使用时单位压力 Pressure in use (kPa)	
电化石墨类Electrographite	D104	10	100(196)	1.64	2.4	0.2	0.25	12	40	14.7 ~ 19.6	直流电焊机和电压80 ~ 120伏的直流电机。 DC electric welder and voltage 80 to 120 volts.
	D172	13	103(196)	1.6	2.7	0.25	0.2	12	70	19.6 ~ 24.5	高速汽轮发电机集电环和中小型直流电机。 High speed turbo generator colle-ctor ring and a small DC motor.
	D214	28	82(980)	1.64	2.4	0.25	0.15	10	40	19.6 ~ 39.2	汽车发电机和有机械震动的牵引电动机 Auto alternator and traction motors with mechanical vibration
	D252	15	82(588)	1.63	2.5	0.25	0.15	12	45	19.6 ~ 24.5	汽轮发电机的励磁机和带有冲击负荷的直流电机。 Exciter turbine generator and DC motor with impact load.
	D308	40	68(980)	1.59	2.6	0.25	0.15	10	40	19.6 ~ 39.2	电压在120 ~ 440的直流电机，汽车发电机和牵引电动机。 The voltage in the 120 ~ 440 of the DC motor, auto alternator and tra-ction motor.
	D374L	50	106(980)	1.58	2.9	0.2	0.12	12	50	19.6 ~ 39.2	功率扩大和角速度高的小型直流电机。 Power expansion and angle of high speed of a small DC motor.
	D351F	45	80(980)	1.67	2.7	1.8	0.2	12	50	19.6 ~ 39.2	适用于高速牵引电机，整流困难的直流电机，轧钢电机。 Suitable for high speed traction motor, DC motor commutation difficult, rolling machine.
	D374B	57	83(980)	1.58	2.8	0.25	0.25	12	50	19.6 ~ 39.2	机车牵引电动机和主发电机，汽轮发电机的高速磁机，轧钢发动机和主发动机，交流整流子电动机和其他换向困难的直流电机。 Locomotive traction motor and main generator, high speed ma-gnetic turbine generator, rolling the engine and the main engine, DC motor AC commutator motor and other directional difficult.
	D374N	58	83(980)	1.6	2.8	0.2	0.2	12	60	19.6 ~ 39.2	
	D374F	57	90(980)	1.67	2.7	0.2	0.2	12	60	19.6 ~ 39.2	
	D376N	62	99(588)	1.65	2.9	0.2	0.2	12	60	19.6 ~ 39.2	

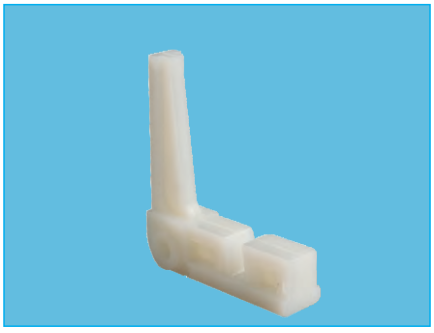
包装机配件系列

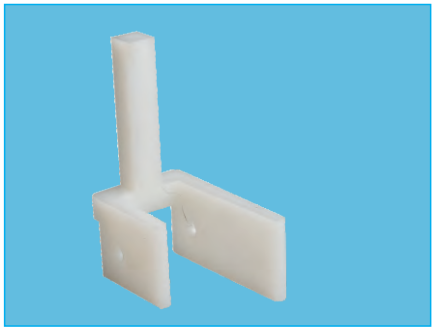
Packaging Machine Accessories Series

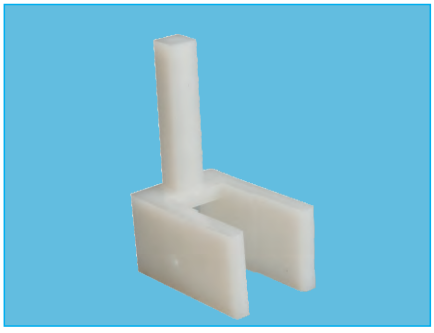


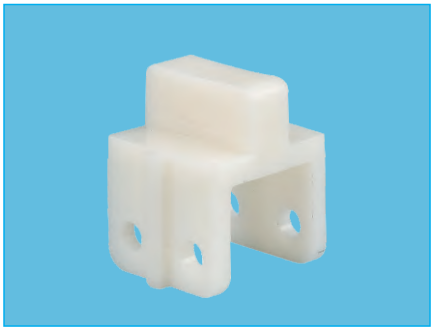

尼龙偏置加高


尼龙偏置窄


尼龙偏置宽


新型尼龙推料夹


尼龙推料夹

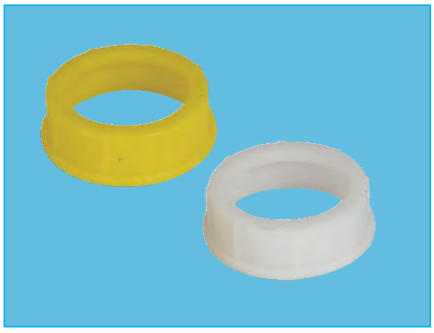

托块26宽

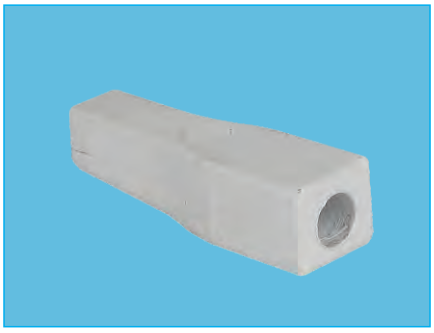

托块15宽


托块加高

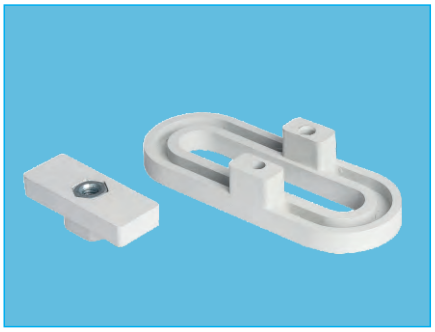

托块22宽

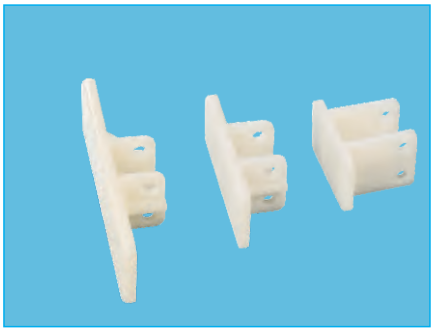

端盖

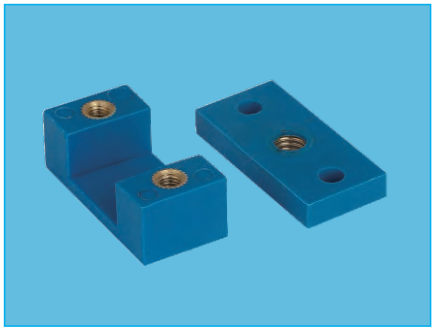

轴承套

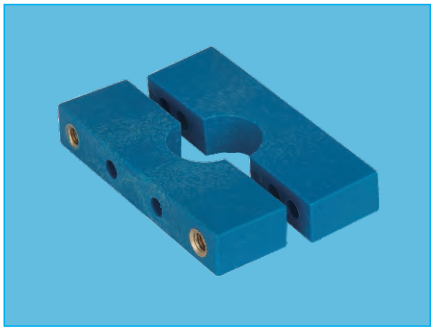

往复式尼龙推杆

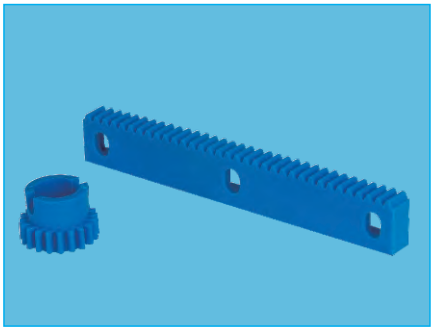

刹车盘

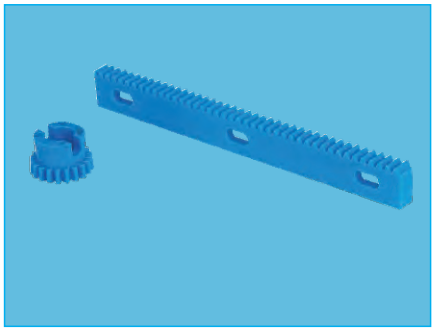

调节滑座

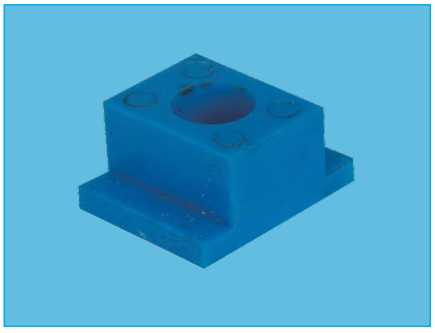

托块 99宽、60宽、40宽

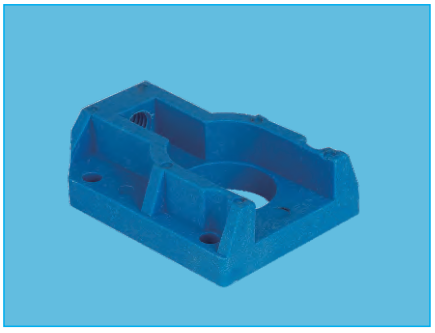

电眼座

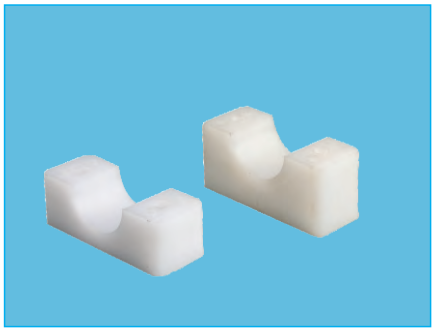

长形压带条

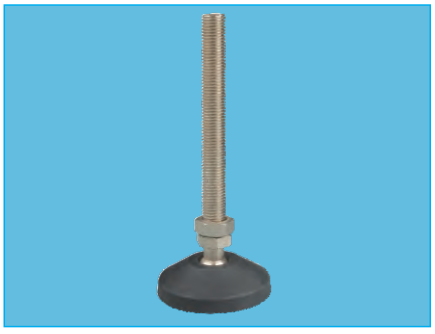

齿轮齿条φ15X135


齿轮齿条φ10X135

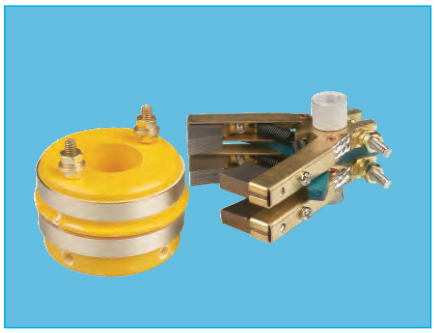

小滑座


偏心轴座

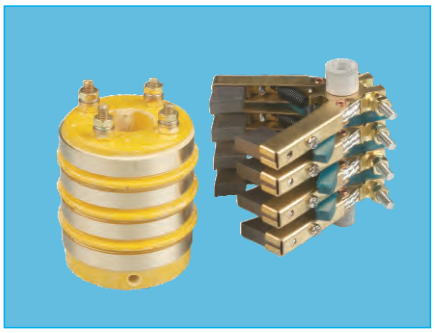

压带条


马蹄脚

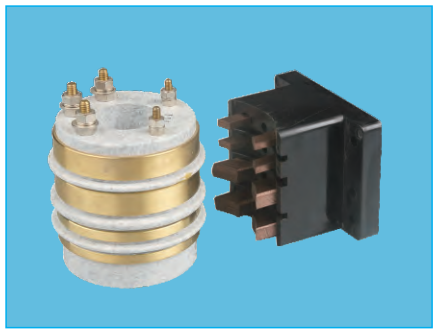

调节柱



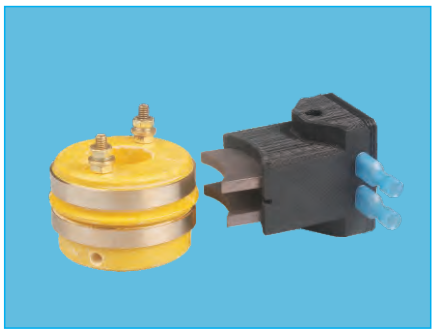
二环导电环铜刷架



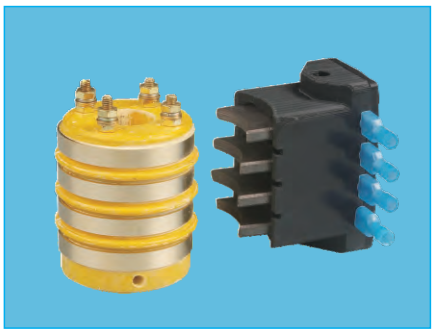
四环导电环铜刷架



往复式导电环刷架



新型二环导电环刷架



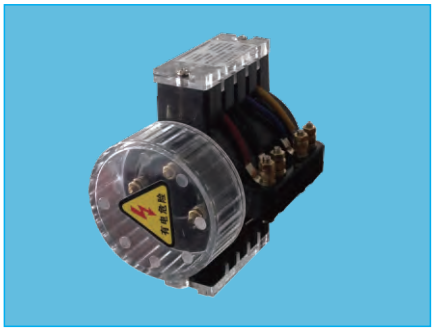
新型四环导电环刷架



组合型导电环刷架



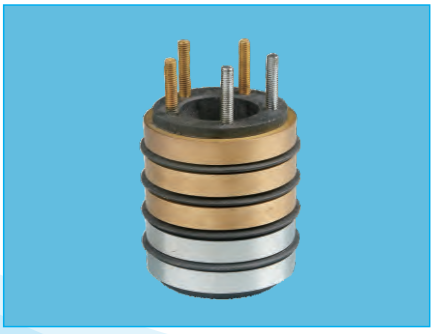
精密型导电环



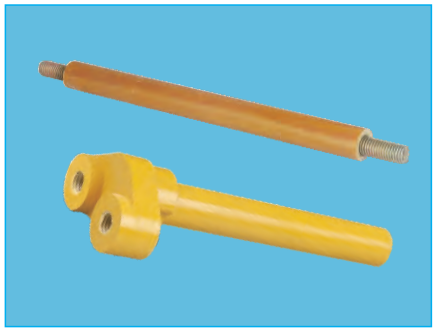
整体式导电环



水银滑环



集电环

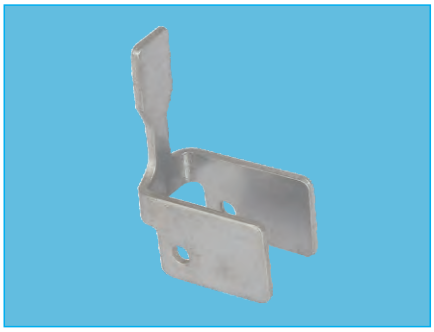


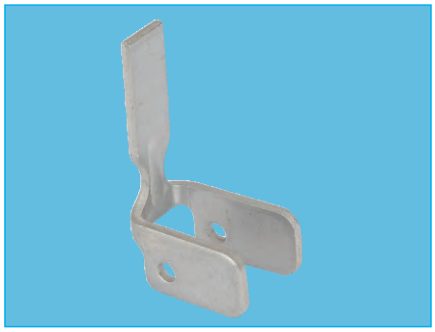
绝缘杆

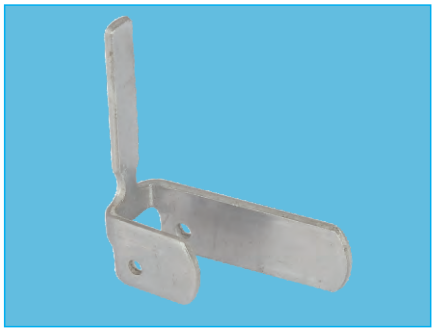


绝缘杆

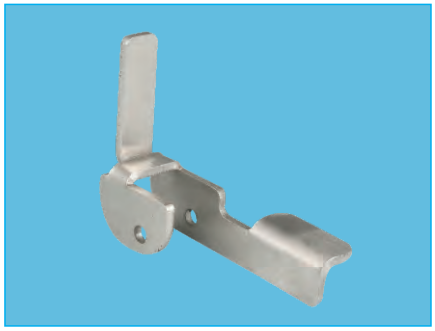
不锈钢推料夹


570412

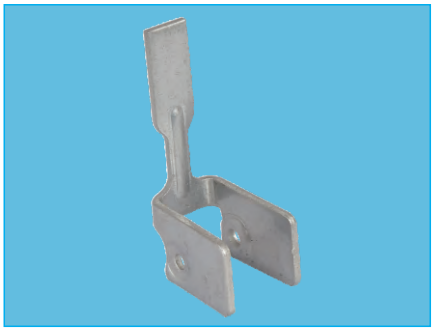

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690401

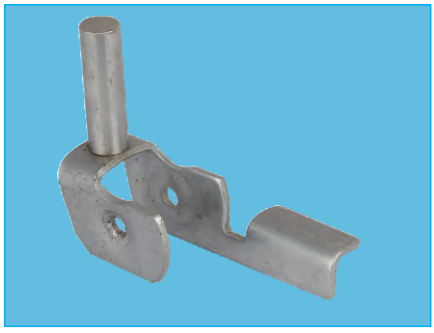

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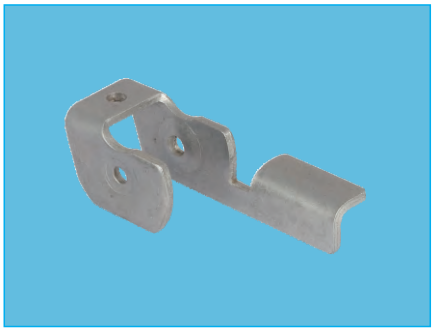

607223


5mm


710409


220416带焊杆


230427带焊杆


230427


220416


七字型糖果钩

TJR(X)3软铜绞线系列 soft copper wire series



用途说明Application

铜软绞线是输配电用电气装置(如变压器、电炉)及电子电器设备、可控硅元件的软连接线，也可作电工作业接地线之用。

Flexible copper stranded wire is electrical apparatus for power transmission and distribution (such as transformer, electric arc furnace) soft connecting wire and electronic and electrical equipment, .thyristor, also can be used for grounding wire for electrical operation.

技术性能Technical performance

1、铜软绞线采用优质圆铜线或镀锡软圆铜线制成。工过程中经韧炼处理，使成品柔软、外表整齐、美观。

2、铜软绞线的直流电阻率(20℃)不大于0.082Ω.mm2/m，镀锡铜软绞线的直流电阻率(20℃)不大于0.0193Ω.mm2/m

3、本产品技术标准符合GB I 2970.2-91

1, soft copper wire made of high-quality round copper or tinned round copper wire. During the process the annealing treatment, the finished product is soft, the appearance is tidy and beautiful. DC resistivity

2, soft copper wire (20 DEG C) of less than 0.082 ohm.Mm2/m, DC resistivity tinned soft copper stranded wire (20 DEG C) of less than 0.0193 ohm.Mm2/m

3, the products conform to the technical standard of GB L 2970.2-91

TZ-15 / TZX-15铜编织线系列 copper braided wire series



用途说明Application

铜编织线用于电气装置，开关电器，电炉及蓄电池等的软连接线。

The braided copper wire for electrical devices, electrical switches, the soft connection line electric and battery etc..

技术性能Technical performance

1、铜编织线采用优质圆铜线(0.1 0，0. 1 2，0.15，0.20)或镀锡软圆铜线(0.12，0.15)以多股(13.16.24.36.40.48.64.96锭)经单层或多层编织成。

2、铜编织线的直流电阻率(2 0℃)不大于0.022~Ω.mm2m，锡铜编织镀线的直流电阻率(20℃)不大于0.0234~Ω.mm2/m

3、符合JB / T6313.2-1992标准

4、型号、规格如表

1, copper braided wire quality round copper wire (0.10, 0.12, 0.15, 0.20) or tinned round copper wire (0.12, 0.15) to multiple unit (13.16.24.36.40.48.64.96 ingot) by a monolayer or multilayer woven. DC resistivity 2, copper braided wire (20 DEG C) not more than 0.022~ Omega.Mm2m, tin copper braided DC resistivity plating line (20 DEG C) not greater than 0.0234~..mm2/m

3, meet JB / T6313.2-1992 standard

4, models, specifications as shown in table

TS铜电刷线系列TS copper brush wire series



用途说明Application

I、铜电刷线是用于电机、电器及仪表线路上联接用的软连接线

2、铜电刷线的产品标准按(GBI 2970 4 91)铜电刷线的型号为：TS-铜电刷线；TSR-铜软电刷线。

3、铜电刷线的规格为：TS型：0.25 16mm2’TSR型：0.063 -6.3mm2。

4、绞合：铜电刷线最外层的绞向为右向，除18%;TsR型软铜电刷线的伸长率应不小于15%。

6、表明要求:电刷线表面应光洁，不得有毛疵，困软件化处理引起的金黄色或淡红色的表面，仍可作为合格品。

7、TS型电刷线如表NO.1;TSR型电刷线如表NO.2。

1, the copper brush wire is used for soft connection line motor, electrical and instrumentation lines connected with the

2, the copper brush wire products according to the standard (GBI 2970491) copper brush wire type: TS- copper brush wire; TSR- soft copper brush wire.

3, the copper brush wire specifications: TS: 0.25 16mm2 'TSR type: 0.063 -6.3mm2.

4, twisting: the outer layer of the copper brush wire in the clockwise direction, in addition to 18%; TsR type soft copper brush wire elongation shall be not less than 15%.

6, that require: brush wire surface should be smooth, there shall be no defect, trapped surface software treatment induced golden yellow or pale red, can be used as a qualified product.

7, TS type brush wire as shown in table NO.1; TSR type brush wire as shown in table NO.2.