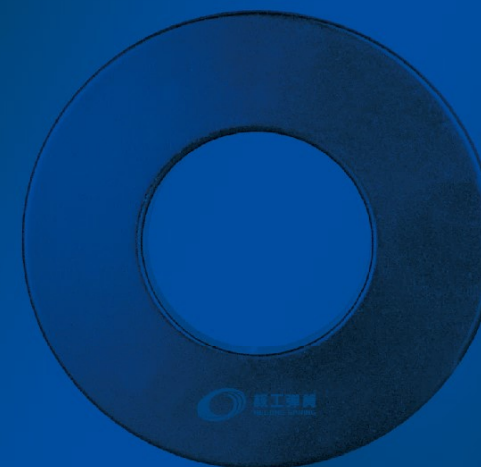


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微信公众号

**HEGONG
SPRING**





HEGONG SPRING



我们始终尽心尽力 我们追求尽善尽美
We always make all-out effort.
We try to make perfection.



01 | ABOUT US

关于我们

HEGONG SPRING
上海核工碟形弹簧制造有限公司

公司简介

上海核工碟形弹簧制造有限公司（简称“核工弹簧”）隶属于中国核工业系统，是专业生产碟形弹簧系列产品及其组件的军工企业，同时是中国通用零部件工业协会理事单位，并被上海市政府认定为高新技术企业。

公司技术力量雄厚，是碟形弹簧产品国家标准和波形弹簧技术条件行业标准的牵头起草单位。公司各类专业技术人员占员工总数的40%以上，其中高级工程技术人员占20%。公司凭借二十多年弹簧制造经验和研发中心较强的技术开发能力先后获得多项国家发明专利。

公司配备精良的CAD、CAM和国内领先的弹簧力学性能自动测试系统，制造过程完全按照ISO9001:2015质量保证体系进行控制，确保产品质量满足客户要求。

公司产品在国家重点工程项目中得到广泛的运用，神州五号返回舱系统、三峡水电枢纽工程、核电工程、上海东方艺术中心、上海铁路南站、上海长江隧桥工程等等都有我们的产品。

公司以高品质的“核工弹簧”走向市场。公司秉承“为客户提供尽善尽美的产品与服务是我们不懈的追求，让客户分享我们的进步是我们的永恒宗旨，实现永续经营是我们的最终目标！”的经营理念，竭诚与国内外同行和广大客户共创美好未来。

Company Introduction

Shanghai Hegong Disc Spring Manufacturing Co., Ltd. (hereinafter referred to as "Hegong Spring") is subordinate to China National Nuclear Industrial System, it is a military enterprise specializing in the production of disc spring series products and their components, meanwhile we are also the syndic unit of China General Components Industry Association and has been identified as high-tech enterprise by Shanghai municipal government.

Our company has strong technical strength; we are the leading and drafting unit of the national standard for disc spring products as well as the contributor of the national standard for Wave spring - Technical specification. We have all kinds of professional and technical staff who account for more than 40% of the total number of employees, in which the senior engineers and technicians account for 20%. Our company has received many national invention patents by relying on more than twenty years' spring manufacturing experience and strong technology development capability of R & D center.

Our company has equipped with sophisticated CAD, CAM and domestic advanced spring mechanical properties automatic testing system, the manufacturing process is completely controlled in accordance with the ISO9001:2015 quality assurance system, in order to ensure product quality to meet customer requirements.

Our company's products are widely used in national key engineering projects, such as, the re-entry capsule system of Shenzhou Five Spacecraft, the Three Gorges hydropower projects, nuclear power engineering, Shanghai Oriental Art Center, South Station of Shanghai Railway, Shanghai Yangtze River Tunnel and Bridge engineering etc. has used our products.

Our company moves towards the market with high-quality "Hegong spring". We adhere to the management idea of "To provide customer with perfect products and services is our unremitting pursuit, to share our progress with customers is our eternal purpose, to achieve sustainable development is our ultimate goal!" We will wholeheartedly with the domestic and foreign same industry companies and customers to create a better future.

设备尖端 精益管理

Sophisticated equipment Lean management

上海核工碟形弹簧制造有限公司研发中心：现有研发人员三十人，其中十余人是从业多年的资深专家。中心致力于新产品的研制、开发，推动新技术迅速转化为生产力，同时加强与高校的学术交流，形成产、学、研相结合的研发模式，至今已完成并获得20多项发明与实用新型专利。中心还主持并参与了碟形弹簧国家标准，波形弹簧技术条件行业标准及相关弹簧行业标准的制修订，在国内外期刊和行业交流会议上发表了多篇具有较高学术价值的论文。



Now we have thirty R & D staff, of which more than ten people are the senior experts who have many years of working experiences. The center is committed to research and develop new product, and product, and promote new products and new technology to be quickly transformed into productive forces, meanwhile the R & D center has strengthened the communication with colleges and universities in order to form the R & D mode by combination of industry-university-research, until now, it has completed more than twenty patents and utility model projects. The center has also presided over and participated in the drafting and revision for the national standards of disc spring, wave spring technical conditions industry standard and industry standards of relevant springs, and published many treatises with higher academic value in domestic and foreign journals and industry exchange meetingspring.



选材精良 严格品控

Superior materials Strict quality control

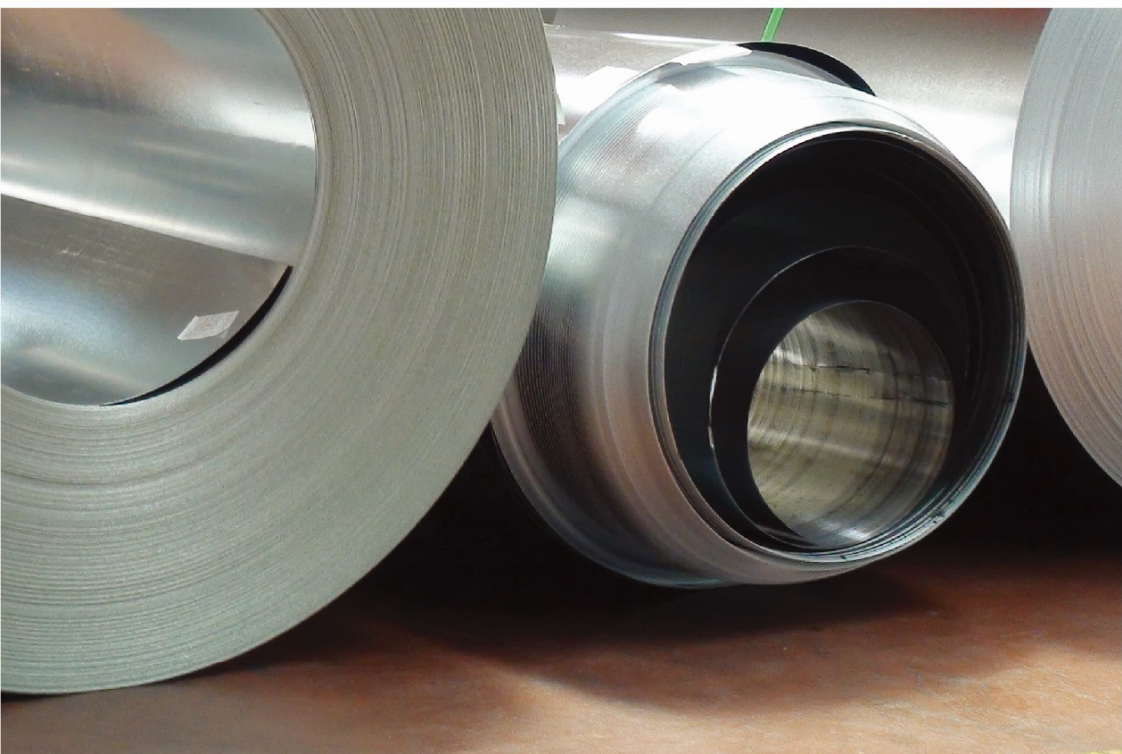
检测中心检测人员16人，检测设备共有10套。主要有1吨（TCD数控弹簧试验机）、5吨（TLW微机控制弹簧拉压试验机）、10吨（TYW微机控制弹簧压力试验机）、100吨（TYE液式弹簧压力试验机）、400吨（WTB微机控制电流伺服弹簧压力试验机）其中，静载荷最小检测能力可达到100N最大检测能力可达到40000kN且最大检测行程达1米，可满足各类碟形弹簧组的完整性动力检测。



There are 16 staff in our testing center with total of 10 sets of testing equipments. They are 1 tons (TCD CNC spring testing machine), 5 tons (TLW microcomputer controlled spring tension and compression testing machine), 10 tons (TYW microcomputer controlled spring pressure testing machine), 100 tons (TYE hydraulic spring pressure testing machine), 400 tons (WTB microcomputer controlled current servo spring pressure testing machine), in which, the minimum detection capability of static load can achieve 100 N, the maximum detection capability can reach 40000kN and the maximum detection range is up to one meters, which can meet the integrity dynamic detection for all kinds of disc spring groups. Meanwhile, the physicochemical laboratory of testing center can quickly test the chemical composition and mechanical property of materials, in order to strictly control the raw materials from the source.

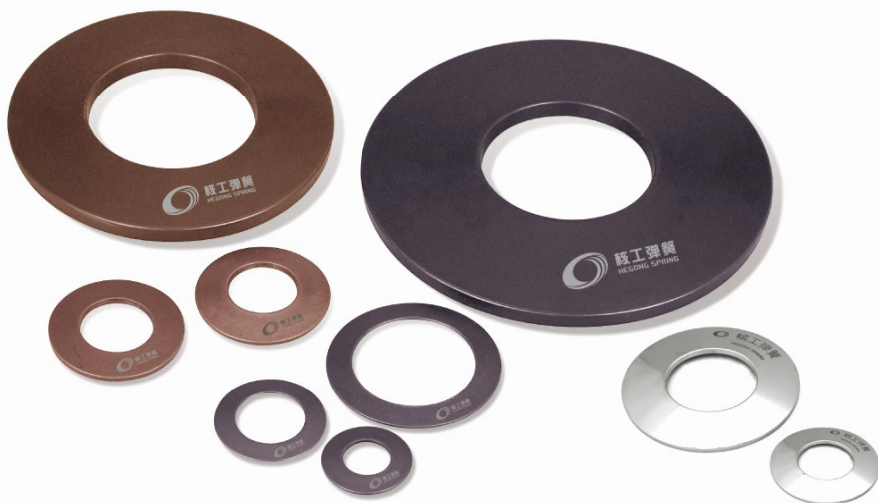
权威认证 品质保证

Authoritative certification Quality assurance



02 | PRODUCTS

产品中心



• 碟形弹簧(DIN2093 GB/T1972-2005)

适用场所：碟形弹簧具有体积小、储能大、组合使用方便等优良特性，广泛应用于国防、冶金、工程、电力、机床等机械行业。

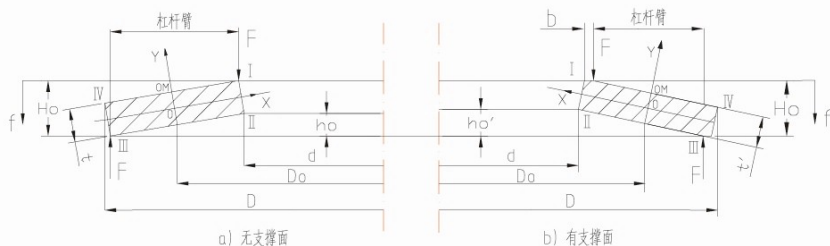
设计：根据使用的现状条件及受力状况，采用公司自主开发的计算机辅助设计系统，确定碟形弹簧的几何尺寸及相关加工要求。

选材：根据客户使用条件，精选适合的材料，最大限度的满足客户需求。常用材料有60Si2Mn, 50CrV及各类镍基合金和不锈钢材料。

表面处理：碟形弹簧的表面处理方法有发蓝、磷化、电镀、电泳和机械镀锌等。

本公司可根据客户使用状况，生产制造各种非标产品。

碟形弹簧规格见25-28页（碟形弹簧标准参数表）。



• Disc spring(DIN2093 GB/T1972-2005)

Applicable places: disc spring has the advantages of small volume, large energy storage, easy to assemble and other excellent characteristics, which are widely used in national defense, metallurgy, engineering, electricity, machine tool and other machinery industries.

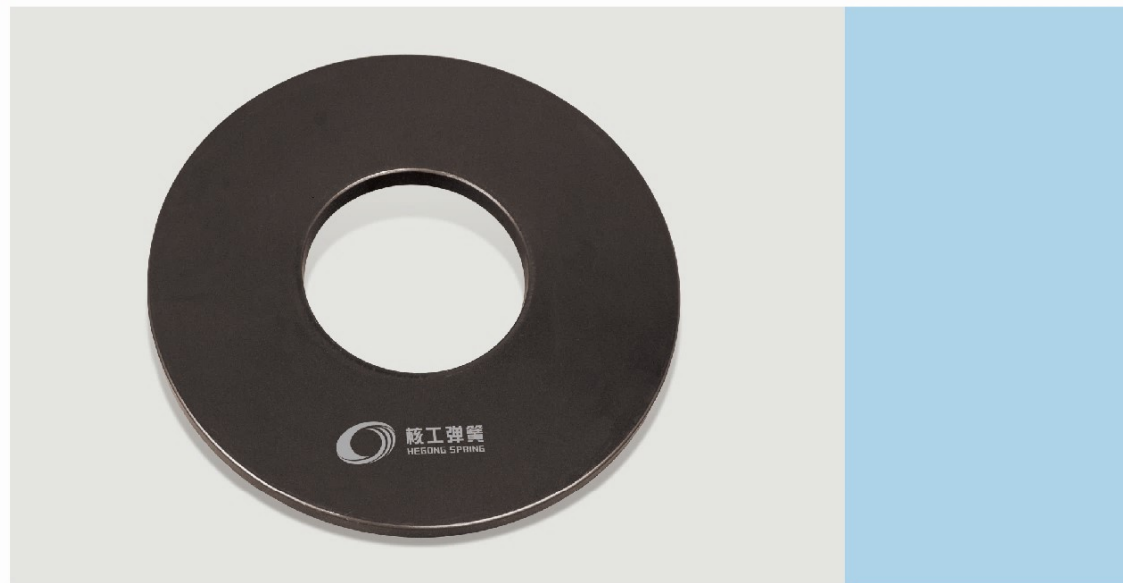
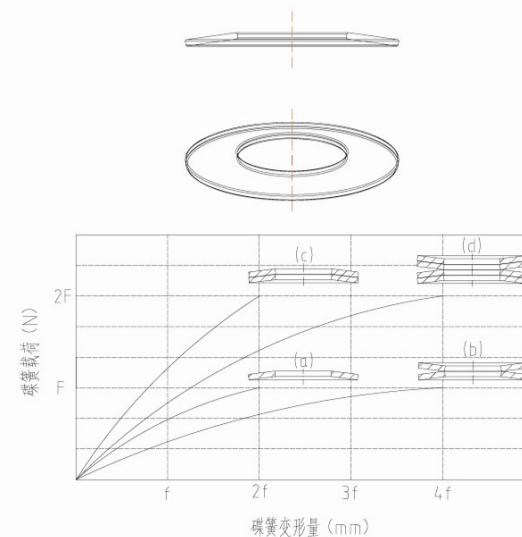
Design: according to the present situation of use and force condition, using the computer aided design system independently developed by the company to confirm the geometric dimension of disc spring and related processing requirements.

Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum. The commonly used materials are 60Si2Mn, 50CrV and Nickel alloy all kinds of stainless steel materials.

Surface treatment: the surface treatment method of disc spring is bluing, phosphating, electroplating, electrophoresis and mechanical zinc plating, etc.

Our company can manufacture all kinds of non-standard products according to customer's service condition.

The specifications of disc spring please see pages from 25 to 28.



• 波形弹簧

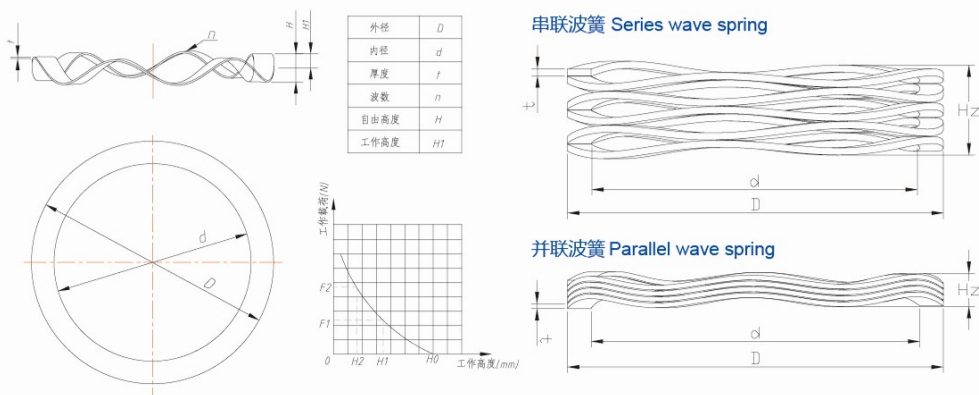
波形弹簧简称波簧，是金属薄圆环上具有若干峰谷的弹性元件。本公司生产的波形弹簧分单层（开口、闭口）波形弹簧、多层波形弹簧。单层波形弹簧可执行标准为JB/T 13296-2017, JB/T 7590 - 2005, HG/T 2479 - 2003, 也可代为设计、制造各类非标准波形弹簧。鉴于国内没有统一的多层波形弹簧标准，公司可根据客户要求生产或代为客户设计、制造各类多层波形弹簧。

适用场所：通常应用于载荷和变形量均不大，要求弹簧刚度较小需施加轴向预压力的场合。

设计：根据使用的现状条件及受力状况，用公司自主开发的计算机辅助设计系统，确定波形弹簧的几何尺寸及相关加工要求。

造 材：根据客户使用条件，精选适合的材料，最大限度的满足客户需求。常用材料有GH4145(Inconel x-750), GH4169(Inconel X-718) O7Cr17Ni7Al(17-7PH), 60Si2Mn, 50CrV及各类不锈钢。

表面处理：波形弹簧的表面处理方法有发黑、光亮、磷化等。



Wave Spring

Waveform spring is called wave spring for short; it is the elastic element which has several peak valleys on the thin metal ring. The wave springs we produced including single-layer (open, closed) wave spring and multi-layer wave spring. The executable standard of single-layer waveform spring is JB/T 13296-2017, JB/T 7590-2005, HG/T 2479-2003, we can also design, manufacture various types of non - standard wave spring. Because our country does not have united standard of multi-layer wave spring, but our company can produce, design and manufacture various types of multi-layer wave springs according to customer requirement.

Applicable places: usually applied to the small load and deformation projects, which requires small spring stiffness and needs to exert axial pre-compression.

Design: according to the present situation of use and force condition, using the computer aided design system independently developed by the company to confirm the geometric dimension of wave spring and related processing requirements.

Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum. The commonly used materials are GH4145 (Inconel x-750) , GH4169 (Inconel X-718) O7Cr17Ni7Al (17-7PH) 60Si2Mn, 50CrV and all kinds of stainless steel materials.

Surface treatment: the surface treatment method of wave spring is black finish, surface gloss finish, phosphating, etc.

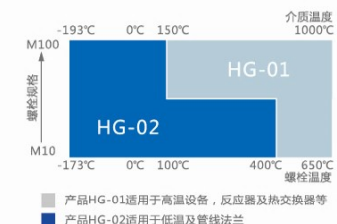
单层波形弹簧规格表 Specification table of single-layer wave spring

规格	基本尺寸				波数n	试验高度h (mm) (100005-0.02)	弹力F(N)			
	外径D (mm)	内径d (mm)	自由高度H (mm)	厚度t (mm)			Fmin (M级)	Fmax (M级)	Fmin (H级)	Fmin (H级)
D16	15.4	11.7	2.0	0.3	3	1.0	50	110	60	100
D19	18.6	14.7	2.7	0.3	3	1.0	60	120	70	110
D22	21.4	15.3	3.0	0.3	3	1.2	60	160	80	140
D26	25.0	18.7	4.0	0.3	3	1.2	80	180	100	160
D28	27.2	20.8	4.1	0.3	3	1.2	80	200	105	175
D30	29.0	22.6	3.1	0.5	3	1.2	90	230	115	205
D32	31.4	26.6	4.0	0.5	3	1.2	110	250	135	225
D35	34.0	27.8	4.3	0.5	3	1.5	140	280	165	255
D40	38.6	32.8	3.2	0.5	4	1.5	160	300	185	275
D42	40.6	34.1	3.3	0.5	4	1.5	180	320	205	295
D47	45.5	38.4	4.0	0.5	4	1.5	200	340	225	315
D52	50.5	41.0	3.2	0.5	5	2.0	210	350	235	325
D62	60.2	50.2	3.9	0.5	5	2.0	260	400	285	375
D72	69.1	59.1	5.5	0.5	5	2.0	310	470	340	440
D80	78.0	70.0	3.9	0.6	6	2.0	360	520	390	490
D85	83.1	73.1	4.0	0.6	6	2.0	390	550	420	520
D90	87.6	78.1	4.5	0.6	6	2.0	420	580	450	550
D100	97.0	87.5	5.6	0.6	6	2.0	440	620	475	585
D110	107.3	97.6	4.6	0.6	7	2.0	470	650	505	615
D120	116.4	107.0	5.8	0.6	7	2.0	480	660	515	625
D125	120.8	111.6	5.9	0.6	7	2.0	480	660	515	625
D130	128.5	109.5	4.8	0.8	6	3.0	490	670	525	635
D140	138.5	119.8	4.6	0.9	6	3.0	490	670	525	635
D150	148.8	125.4	4.6	0.9	6	3.0	500	700	540	660
D160	159.1	137.1	4.5	1.0	6	3.0	520	720	560	680
D170	169.0	142.0	4.3	1.0	6	3.0	530	750	570	710
D180	179.1	145.1	4.8	1.0	6	3.0	590	850	640	800
D190	187.5	154.5	5.0	1.2	6	4.0	770	1030	820	980





螺栓规格	螺栓类型	使用设备
M10~M24	商品级六角头螺栓 商品/专用级双头螺栓	反应器 热交换器 管线法兰
M27~M100	专用级全螺纹螺栓	泵及阀门法兰



• 高温系列

产品系列：碟形弹簧、碟形垫圈、单/多层波形弹簧、螺旋弹簧等。

适用场所：军工、石化、冶金、造纸、制药、食品加工。

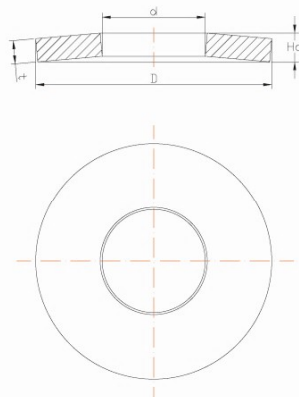
设计：温差达100°C以上的法兰及振动设备的法兰连接，采用上海核工高温碟簧是实现可靠密封的技术保障。

上海核工高温碟簧经上海交通大学进行材料力学性能检验，确保产品质量。

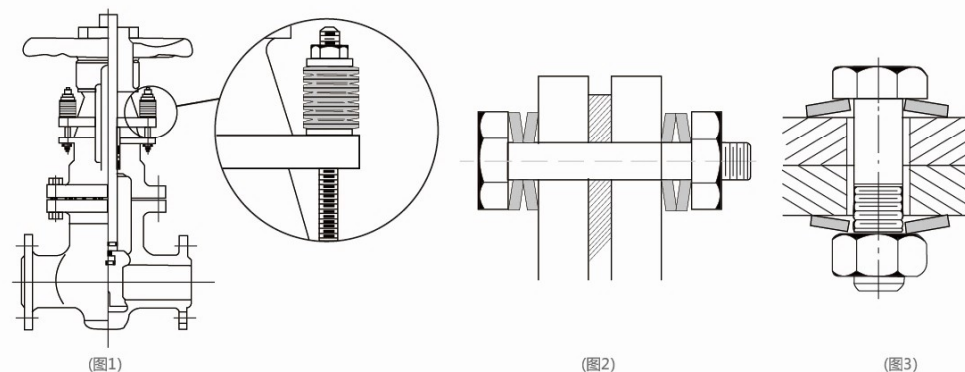
造 材：根据使用条件，精选耐高温、耐腐蚀及非（微）磁性材料，最大限度的满足客户需求。

常用材料HG-01、HG-02及不锈钢。

表面处理：高温碟簧的表面处理有表面光亮，电泳等。



上海核工高温碟簧的使用



• High temperature series

Product series: disc spring, disc washer, single-layer / multi-layer wave spring, spiral spring, etc.

Applicable places: military industry, petrochemical, metallurgy, papermaking, pharmaceutical and food processing.

Design: the flange with temperature difference of more than 100 °C and vibratory equipment flanged joint, using Shanghai Hegong high-temperature disc spring is the technical guarantee to achieve reliable sealing. Shanghai Hegong high-temperature disc spring has been performed material mechanical performance testing by Shanghai Jiaotong University, so as to ensure product quality.

Materials: selecting high temperature resistance, corrosion resistance and non- (micro) magnetic materials according to customer service condition, in order to meet customer demands in maximum. The commonly used materials are HG-01, HG-02 and stainless steel.

Surface treatment: the surface treatment of high temperature disc spring is surface gloss finish, electrophoresis, etc.

复合组合成弹簧组使用 (图1)
对组合使用 (图2)
单片使用 (图3)
叠合使用

高温碟簧应用
★热交换器法兰
★反应釜法兰
★高温阀门及管线法兰
★高温泵的法兰
★各种其他工程应用

● 碟形弹簧垫圈(DIN6796)

碟形弹簧垫圈遵循DIN6796制造生产,用于中等或高强度螺栓、螺钉的连接。螺栓螺钉连接后,对预防拉力的松弛、对易损件的磨损及蠕变,热膨胀收缩及密封件的压紧起到了补偿作用。

适用场所:碟形弹簧垫圈广泛应用于国防、冶金、工程、电力、机床等机械行业。

设计:根据使用的现状条件及受力状况,用公司自主开发的计算机辅助设计系统,确定碟形弹簧垫圈的几何尺寸及相关加工要求。

材料:根据客户使用条件,精选适合的材料,最大限度的满足客户需求。用材料有60Si2Mn, 50CrV及各类不锈钢。

表面处理:碟形弹簧垫圈的表面处理方法有发蓝、磷化、电镀、电泳和机械镀锌等。



超高扭力碟形垫圈规格

The specifications of extra high torsion disc spring washer

螺栓规格	D(mm)	d(mm)	t(mm)	Ho(mm)	建议使用压平载荷(N)	理论压平载荷(N)
M10	18.24	10.41	3.02	3.2	30959	21633
M12	21.69	12.4	3.66	3.86	31121	31544
M14	25.27	14.4	4.27	4.5	32153	43319
M16	29.16	16.36	5.11	5.38	50656	60320
M18	32.64	18.39	5.89	6.17	72011	—
M20	36.96	20.6	6.15	6.45	62083	93149
M22	40.39	22.89	7.42	7.8	90914	123310
M24	43.41	24.82	7.52	7.9	115834	134253
M27	48.69	27.81	8.38	8.81	136696	176690
M30	53.92	30.81	9.5	9.98	143136	214591
M32	58.67	32.54	10.72	11.25	192324	266893
M33	59.18	33.53	10.62	11.13	213379	267705
M36	65.53	36.8	11.46	12.04	207630	314119
M38	68.07	39.62	12.95	13.54	254144	398221
M39	68.07	39.62	12.95	13.54	254144	398221
M42	74.93	42.85	14.58	15.21	299047	475979
M48	86.08	48.23	14.76	15.6	360627	509231
M52	91.44	52.81	15.8	16.66	355185	585298
M56	102.61	57.94	17.88	18.84	446165	—
M64	113.87	64.29	19.96	21.03	536156	938927
M70	124.97	70.64	22.07	23.24	592529	1148282
M90	155.57	90.75	21.36	22.89	652223	1069147
M100	181.23	102.97	18.14	20.55	—	1114804

高扭力碟形垫圈规格

The specifications of high torsion disc spring washer

螺栓规格	外径D	内径d	厚度t	高度Ho	建议使用压平载荷(N)	理论压平载荷(N)
M8	14.7	8.4	1.27	1.75	4437	—
M10	18.2	10.4	2.1	2.29	9468	12456
M12	21.7	12.4	2.41	2.65	11070	16459
M14	25.3	14.4	2.41	2.72	12582	16236
M16	29.1	16.6	3.17	3.48	23328	28915
M18	32.6	18.6	3.42	3.78	17676	33585
M20	36.4	20.8	3.95	4.34	28962	43594
M22	40.4	22.9	3.95	4.44	26928	43372
M24	43.4	24.8	3.95	4.49	35901	42927
M27	48.7	27.8	3.95	4.62	34461	42260
M30	53.9	30.8	4.88	5.55	65880	66726
M32	57.4	32.8	4.88	5.65	69093	—
M33	59.1	33.5	4.9	5.69	60003	88964
M36	64.4	36.8	4.9	5.87	60759	64947
M38	68	38.8	6.5	7.32	76347	115658
M39	69.7	39.8	6.5	7.35	84501	117682
M42	74.9	42.8	6.5	7.27	89244	122331
M48	86.1	49.2	8	9.05	135270	181272
M52	93.1	53.2	8	9.2	101493	180160
M64	113.5	65.1	10.01	11.29	182637	275790
M72	127	72.9	12.7	14.22	—	451494

● Disc spring washer (DIN6796)

Disc spring washer follows DIN6796 production, which is used for medium or high strength bolt and screw the screw connection. After bolt and screw connection, it has the compensation function for preventing tension loose, wearing and creeping of wear parts, thermal expansion and shrinkage as well as compression of sealing elements.

Applicable places: disc spring washer is widely used in national defense, metallurgy, engineering, electricity, machine tool and other machinery industries.

Design: according to the present situation of use and force condition, using the computer aided design system independently developed by the company to confirm the geometric dimension of disc spring washer and related processing requirements.

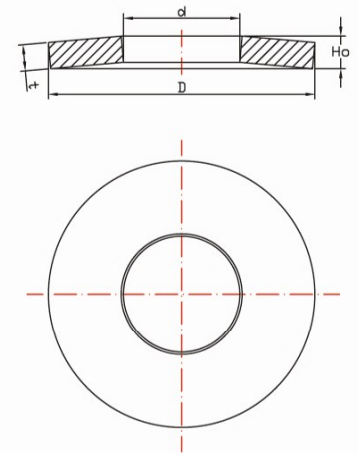
Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum. The commonly used materials are 60Si2Mn, 50CrV and all kinds of stainless steel materials.

Surface treatment: the surface treatment method of disc spring washer is bluing, phosphating, electroplating, electrophoresis and mechanical zinc plating, etc.

DIN6796碟形垫圈规格

The specifications of disc spring washer (DIN6796)

螺栓规格	D(mm)	d(mm)	t(mm)	Hmax(mm)	Hmin(mm)	载荷力(N)	最小残存载荷(N)
M2	5	2.2	0.4	0.6	0.5	***	***
M2.5	6	2.7	0.5	0.72	0.6	***	***
M3	7	3.2	0.6	0.85	0.72	***	***
M3.5	8	3.7	0.8	1.06	0.92	***	***
M4	9	4.3	1	1.3	1.12	4400	1400
M5	11	5.3	1.2	1.55	1.35	7200	2300
M6	14	6.4	1.5	2	1.7	10200	4200
M7	17	7.4	1.75	2.3	2	14800	6200
M8	18	8.4	2	2.6	2.2	18600	7700
M10	23	10.5	2.5	3.2	2.8	29600	12400
M12	29	13	3	3.95	3.4	43000	18000
M14	35	15	3.5	4.65	4	59100	25000
M16	39	17	4	5.25	4.6	80900	34000
M18	42	19	4.5	5.8	5.1	102000	57000
M20	45	21	5	6.4	5.6	130000	73000
M22	49	23	5.5	7.05	6.1	162000	91000
M24	56	25	6	7.75	6.8	188000	122000
M27	60	28	6.5	8.35	7.3	246000	161000
M30	70	31	7	9.2	8	300000	196000





环簧选型系列规格 The specification of ring spring series

型号	环簧参数							导向尺寸		重量 kg
	F KN	Se mm	We J	he mm	D1 mm	d1 mm	b/2 mm	D2 mm	d2 mm	
HG1201	5	0.4	1	2.2	18.1	14.4	1.8	18.7	13.9	0.002
HG1202	9	0.6	2.7	3.1	25	20.8	2.5	25.9	20.1	0.004
HG1203	14	0.8	5.6	4	32	27	3.2	33.1	26.1	0.007
HG1204	20	0.9	9	4.7	38	31.7	3.8	39.3	30.6	0.012
HG1205	26	1	13	5.2	42.2	34.6	4.2	43.6	33.4	0.018
HG1206	34	1.1	18.7	5.9	48.2	39.4	4.8	49.8	38.1	0.026
HG1207	40	1.3	26	6.8	55	46	5.5	56.7	44.5	0.035
HG1208	54	1.4	37.8	7.7	63	51.9	6.3	64.9	50.3	0.056
HG1209	65	1.6	52	8.6	70	58.2	7	72.1	56.4	0.074
HG1310	83	1.8	75	9.8	80	67	8	83	64	0.105
HG1311	100	2	100	11	90	75.5	9	93	73	0.145
HG1312	125	2.2	138	12.2	100	84	10	103	81	0.203
HG1313	160	2.6	208	15	130	111.5	12.4	134	108	0.376
HG1314	200	2.6	260	15	124	102	12.4	128	98	0.408
HG1315	250	3	375	17	140	116	14	144	112	0.568
HG1316	350	3.7	648	20	166	134	16	170	130	0.869
HG1317	510	3.9	995	22.4	198	162	18.5	203	157	1.57
HG1318	600	4.4	1320	23.4	194	155	19	199	150	1.676
HG1319	720	4.4	1584	26.4	220	174	22	225	169	2.573
HG1320	860	4.8	2064	25.8	262	208	21	268	202	3.415
HG1221	1000	5.8	2900	35.8	300	250	30	306	245	5.51
HG1222	1200	6.2	3720	38.2	320	263	32	326	258	7.06
HG1223	1400	6.6	4620	41.6	350	288	35	356	283	9.18
HG1224	1800	7.6	6840	47.6	400	330	40	407	324	13.56

● 环簧

环簧是由内锥面的外环和外锥面的内环配合使用，在外力作用下通过内环的收缩，外环的扩张起到缓冲作用，它主要用在空间受限制而又需要强力缓冲的场合。

适用场所：环簧具有体积小、储能大、组合使用方便等优良特性，广泛应用于国防、冶金、工程、电力、机床等机械行业。

设计：根据使用的现状条件及受力状况，用公司自主开发的计算机辅助设计系统，确定碟形弹簧垫圈的几何尺寸及相关加工要求。

造 材：根据客户使用条件，精选适合的材料，最大限度的满足客户需求。常用材料有 60Si2Mn, 50CrV 等。

表面处理：环簧的表面处理方法有发蓝、发黑等。

● Ring Spring

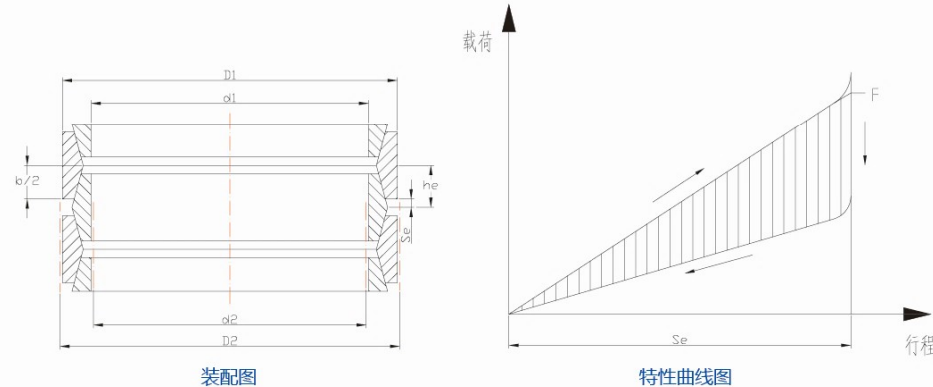
The ring spring is used cooperatively by the outer ring of interior conical and the inner ring of external conical, through inner ring contraction and outer ring expansion under the action of external force for buffer function, it is mainly used in the projects with limited space and needs strong buffer.

Applicable places: ring spring has the advantages of small volume, large energy storage, easy to assemble and other excellent characteristics, which are widely used in national defense, metallurgy, engineering, electricity, machine tool and other machinery industries.

Design: according to the present situation of use and force condition, using the computer aided design system independently developed by the company to confirm the geometric dimension of ring spring and related processing requirements.

Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum. The commonly used materials are 60Si2Mn, 50CrV, etc.

Surface treatment: the surface treatment method of ring spring is bluing, black finish, etc.



装配图

特性曲线图

D1 (mm)	外环尺寸
d1 (mm)	内环尺寸
b/2 (mm)	半环高
Se (mm)	一对接触面的间距
he (mm)	一对接触面的组合高度
D2 (mm)	外导向尺寸
d2 (mm)	内导向尺寸



• 截锥涡卷螺旋弹簧

截锥涡卷螺旋弹簧，又叫笋形弹簧，宝塔簧。主要特点是体积小、载荷大。广泛用于空间小、载荷大的场合进行减震装置。有等螺旋角、等节距、等应力三种结构。

可根据用户的不同要求进行设计，生产制造。

造 材：根据客户使用条件，精选适合的材料，最大限度的满足客户需求。常用材料有60Si2Mn，50CrV等。

表面处理：截锥涡卷螺旋弹簧的表面处理方法有发蓝、喷漆等。

• Truncated cone scrolled spiral spring

Truncated cone scrolled spiral spring is also called volute spring, pagoda spring. Its main characteristic is small size with large load. It widely used for the damping device of projects with small space with large load. There are three kinds of structure including equal helix angle, equal pitch and equal stress. We can design and manufacture according to user's different requirements.

Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum. The commonly used materials are 60Si2Mn, 50CrV, etc.

Surface treatment: the surface treatment method of truncated cone scrolled spiral spring is bluing, spray paint, etc. materials.

Surface treatment: the surface of the disc spring processing method there are blue, phosphating, electroplating, electrophoresis and mechanical galvanizing, etc.



• 异形弹簧

本公司生产各种不同的异形弹簧有螺旋弹簧（压簧、拉簧、扭簧）、条簧、板簧、发条簧等各类弹性产品。

造 材：根据客户使用条件，精选适合的材料，最大限度的满足客户需求。

制 造：异形弹簧的表面处理方法有发蓝、磷化、电镀、电泳、喷漆、机械镀锌等。

• Clutch diaphragm disc spring

Our company can produce various special-shaped spring including spiral spring (pressure spring, tension spring, torsion spring), strip spring, plate spring, clockwork spring and other kinds of elastic products.

Materials: selecting suitable materials according to customer's use condition, in order to meet customer demands in maximum.

Surface treatment: the surface treatment method of deformed spring is bluing, phosphating, electroplating, electrophoresis, spray paint and mechanical zinc plating, etc.



我们的辉煌业绩

Our glorious achievements



卓越的品质 完善的服务

为客户提供尽善尽美的产品与服务是我们的不懈追求；
让客户分享我们的进步是我们的永恒宗旨；
实现永续经营是我们的最终目标！

Excellent quality Perfect service

To provide customer with perfect products and services is our unremitting pursuit;
To share our progress with customers is our eternal purpose;
To achieve sustainable development is our ultimate goal!

我们的产品畅销中国、东南亚、及欧州部份国家。

Our products are sold well in China, Southeast Asia, and some European countries.

03 | CASE

案例

01 上海铁路南站 Shanghai railway south railway station

铁路上海南站是上海中心城市的南大门，也是联系长江、珠江三角洲及中国南方其他城市包括港澳地区的重要交通枢纽。南站及周边地区以其独特的地利条件和投资优势，必将成为与徐家汇城市副中心功能互补的又一区域经济中心。我公司产品应用于基础减震平衡节点。



02 上海长江隧桥 Shanghai Yangtze river tunnel bridge



03 中国重汽 SINOTRUK



04 中国中车 CRRC



