

热线: 400-008-3858



MASCOT  
敏硕科技  
SINCE 2005

# 专注弹簧制造20年

SPRING MANUFACTURER SINCE 2005



上海敏硕机电科技有限公司  
Shanghai Mascot Industrial Co., Ltd



## 公司简介

### COMPANY PROFILE

敏硕科技是一家中外合资具有研发、生产、销售综合实力于一体的各类精密弹簧、密封产品、制冷配件及单向阀系列等精密五金产品专业制造商。公司拥有五个分厂(江苏、上海、浙江、美国、泰国)及天津分公司,二万多平方米的标准厂房。公司创始人及研发技术骨干拥有欧美同行业丰富的管理及领先的技术经验。公司现有员工398名,其中专业工程技术人员、管理人员168名,各种设备1000多台,形成了从产品研发、生产、销售到售后服务务的完整现代化企业管理体系。公司通过IATF16949:2016质量体系等一

系列技术认证,获得多项国家实用新型及发明专利。公司始终秉承“客户第一,质量至上”为宗旨,为客户提供全方位综合性弹簧、密封、制冷五金产品解决方案。我们承诺,无论您在何时何地,我们都将为您提供特殊需求的定制服务,专业、优质、安心、快捷、高效是我们十年如一日的服务宗旨。多年来我们以诚信经营,踏实做产品,持续受到国内外客户的认可,业务遍布全球各地。

Mascot Technology is a Sino foreign joint venture manufacturer specializing in the research and development, production, and sales of various precision springs, sealing products, refrigeration accessories, and one-way valve series of precision hardware products. The company has five branch factories (Jiangsu, Shanghai, Zhejiang, USA, Thailand) and a Tianjin branch, with a standard factory space of over 20000 square meters. The founder and R&D technical backbone of the company have rich management and leading technical experience in the same industry in Europe and America. The company currently has 398 employees, including 168 professional engineering and technical personnel, management personnel, and over 1000 various equipment, forming a complete modern enterprise management system from product research and development, production, sales to after-sales service. The company has obtained a series of technical certifications such as IATF16949:2016 quality system, and has obtained multiple national utility model and invention patents. The company always adheres to the principle of "customer first, quality first" and provides customers with comprehensive solutions for spring, sealing, and refrigeration hardware products. We promise to provide customized services for your special needs no matter when and where you are. Our service tenet for ten years is professionalism, quality, peace of mind, speed, and efficiency. For many years, we have been operating with sincerity, producing products with diligence, and have been continuously recognized by domestic and foreign customers. Our business covers all over the world.

### 弹簧事业部

#### SPRING DIVISION

拥有各式压拉扭弹簧机160台和CNC弹簧机60台及检测设备20套;能精密制造各种标准和非标准压簧、拉簧、扭簧、高温弹簧(600°)&低温弹簧(-260°)、碟形弹簧(外径范围:3mm~900mm,厚度范围:0.08~60mm)、波形弹簧(外径范围:1mm~500mm,厚度范围:0.1~10mm)、热卷弹簧(材料直径16~100mm)、冷卷弹簧(材料直径:0.2mm~20mm)、发条、恒力弹簧(厚度范围:0.1mm~10mm)、密封弹簧(外径范围:2mm~500mm;厚度范围:0.1~10mm)螺旋叶片弹簧、阻尼器、气杆、悬架弹簧、涡卷弹簧、模具弹簧、卡簧、蛇形弹簧、异型弹簧、螺旋弹簧加工件、弹簧垫圈、孔用弹性挡圈,轴用弹性挡圈、止动环、缓冲器等精密五金。通过严格的疲劳测试实验,我们的弹簧最高耐疲劳1亿次以上。

**常用材料:**各类碳素钢、合金钢材料、琴钢线、Hastelov哈氏合金、Elgilov、SAE6150、SAE9254、50CrV4、60Si2CrA、62Si2MnA,SK4,SK5、CK55、CK67、CK70、CK75、65Mn、SUS301、SUS304、SUS316、SUS631、17-7、InconelX-718、InconelX-750、GH145等。

**表面处理:**发蓝、发黑、磷化、电镀、电泳和喷塑、喷漆、达克罗、焦美特等。

We have 160 various types of compression tension torsion spring machines, 60 CNC spring machines, and 20 sets of testing equipment; Capable of precision manufacturing various standard and non-standard compression springs, tension springs, torsion springs, high-temperature springs (600 °)&low-temperature springs (-260 °), disc springs (outer diameter range: 3mm~900mm, thickness range: 0.08~60mm), wave springs (outer diameter range: 1mm~500mm, thickness range: 0.1~10mm), hot coil springs (material diameter 16~100mm), cold coil springs (material diameter: 0.2mm~20mm), mainspring, constant force springs (thickness range: 0.1mm~10mm),

sealed springs (outer diameter range: 2mm~500mm); Thickness range: 0.1~10mm) Precision hardware such as spiral blade springs, dampers, air rods, suspension springs, spiral springs, mold springs, snap springs, serpentine springs, special-shaped springs, spiral spring machined parts, spring washers, hole elastic retaining rings, shaft elastic retaining rings, stop rings, buffers, etc. Through rigorous fatigue testing experiments, our springs have a maximum fatigue resistance of over 100 million cycles.

**Common materials:** all kinds of carbon steel, alloy steel, piano steel wire, Hastelloy Hastelloy, Elgiloy, sae6150, sae9254, 50CrV4, 60si2cra, 62si2mna, SK4, SK5, ck55, ck67, ck70, ck75, 65Mn, SUS301, SUS304, SUS316, sus631, 17-7, inconelx-718, inconelx-750, gh145, etc.

**Surface treatment:** bluing, blackening, phosphating, electroplating, electrophoresis and plastic spraying, painting, Dacromet, jiaomeite, etc.

## 密封事业部 Seal Division

面对客户多元化需求,立足公司自有的先进弹簧的制造经验,公司于2016.6成立密封事业部,专门攻克了多家500强企业需要国产化但多年并不成功国产的泛塞封项目,帮助客户节省了大批成本。经过多年的发展,公司密封事业部现能精密制造各种弹簧储能圈,孔用泛塞封,轴用泛塞封,端面内向泛塞封,旋转泛塞封,PTFE翻唇骨架油封、翻唇式油封、格来圈、斯特封、尘封、AQ封、高压旋转油封、挡圈、导向环等各种非标定制密封产品。

本司氟塑密封件,均采用优质PTFE树脂生产,全都具备极低的摩擦阻力、无爬行现象、自润滑性能好、在缺乏润滑的情况下仍可正常工作等出色的优点。材料的化学性能和物理性能非常稳定,耐腐蚀性能优异、不粘性突出。工作温度范围达-60°C~+250°C。同时,具有极佳的动态和静态密封特点,耐磨性好、使用寿命长。产品应用范围广泛,尤其是在高压、高温、高速的工况下,以及强酸、强碱、强腐蚀的环境中,仍能保持良好的密封性能。

Facing the diversified needs of customers and based on the company's own manufacturing experience of advanced springs, We established a seal ring business department in June 2016, which has specially conquered the pan plug sealing projects that many top 500 enterprises need to be localized but have not been successfully localized for many years, we helped them save a large number of costs. After years of development, our seal division is now able to manufacture various kinds of non-standard customized sealing products, such as spring energy storage ring, hole pan plug seal, shaft pan plug seal, end face inward pan plug seal, rotary pan plug seal, PTFE lip framework oil seal, lip type oil seal, grid ring, stern seal, dust seal, AQ seal, high pressure rotary oil seal, retaining ring, guide ring, etc.

Our fluoroplastic seals are all made of high-quality PTFE resin. They all have excellent advantages such as extremely low friction resistance, no crawling phenomenon, good self-lubricating performance, and can still work normally in the absence of lubrication. The chemical and physical properties of the material are very stable, with excellent corrosion resistance and outstanding non stickiness. The working temperature ranges from -60 °C to +250 °C. At the same time, it has excellent dynamic and static sealing characteristics, good wear resistance and long service life. Products are widely used, especially in high pressure, high temperature, high speed conditions, as well as strong acid, strong alkali, strong corrosion environment, still can maintain good sealing performance.

## 五金制冷事业部 Hardware Refrigeration Division

拥有各类先进的精密五金制冷加工设备,主导产品包括过滤器(干燥过滤器,吸气过滤器)单向阀,空调阀,黄铜及紫铜等制冷配件系类产品 and 精密五金系列配件。

We have all kinds of advanced precision hardware refrigeration processing equipment, leading products include filter (dry filter, suction filter) check valve, air conditioning valve, brass and copper and other refrigeration accessories series products and precision hardware series accessories.



# 发展历程

## DEVELOPMENT HISTORY



成立上海工厂·嘉定区  
Establish Shanghai factory·(Jiading District)



成立浙江工厂·绍兴  
Establish the Zhejiang factory·Shaoxing City



成立天津办事处·南开区  
Establish Tianjin office·Nankai District

2005

2009

2012

2019

2017



成立苏州工厂  
Establishment of Suzhou factory



成立美国工厂·达拉斯  
Establish a factory in the United States·Dallas

2024

2026



成立太仓工厂  
Establishment of Taicang factory



成立泰国工厂·罗勇府  
Establish a factory in Thailand·Rayong Province

# 企业文化 COMPANY CULTURE



## 核心价值观 Our Value

专业·创新·责任·共赢

Professional·Innovation·Responsibility·win-win

## 我们的精神 Our Spirit

责任提升品质, 专业成就价值, 创新开启未来, 文化引领团队。

Better quality by responsibility, Higher value by profession,

Brighter future by innovation, Stronger team by company culture.

## 我们的责任 Our Responsibility

依靠不断创新的技术, 为顾客创造超越期望的价值, 回报员工与社会。

Depend on constantly innovated technology to create value for customer which is beyond his expectation to the staff and society.



## 苏州敏硕新材料有限公司



2026年新厂封顶仪式



## 我们的目标 Our Target

致力于成为国际化的弹簧供应商!

Aim to be a global spring supplier.

## 我们的风格 Our style

纪律严明·严谨高效·平和自信

Disciplined·Efficient·Confident

## 我们的使命 Our Mission

秉承创新的技术为顾客创造价值!

To create value for customers by innovative technologies.

## 我们的信念 Our Faith

秉承专业 成就价值·励精图治 共赢未来

Value Creation·Win-win Future

## 我们的愿景 Our Vision

成为顾客信赖的伙伴!

To be a reliable partner of our customers!

## 质量证书 Quality Certificate

Certificate of Registration



Appendix to Certificate Number T201042

For: Mascot Technology (Jiangsu) Co., Ltd.

Includes support locations:  
**Shanghai Mascot Industrial Co., Ltd.**  
Zone C, Building 1, No. 58, Lianxing Road, Anting Town, Jiading District, Shanghai City, China  
(IATF USI: 6MR9LZ)

Applicable to:  
**contract review, customer service, sales**



This is to certify that the Quality Management System of:

**Mascot Technology (Jiangsu) Co., Ltd.**  
No. 161, Fada Road, Loudong Street, Taicang, Suzhou City, Jiangsu Province, 215400, China  
(IATF USI: GLR86X)  
(See appendix for additional locations)

applicable to:

**Manufacturing of hardware spring, sealing ring**

has been assessed and registered by NQA, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX, UK against the provisions of:

**IATF 16949:2016**  
(Clause 8.3 product design of IATF 16949:2016 is justifiably excluded)

This registration is subject to the company maintaining a quality management system to the above standard, which will be monitored by NQA.

Certificate of Registration

IATF Certificate No: 0563659  
First Issue Date: 24 January 2025  
Valid Until: 23 January 2028

NQA Certificate No: T201042  
IATF Certificate No: 0563659  
First Issue Date: 24 January 2025  
Valid Until: 23 January 2028  
Version: 1






NQA is a trading name of NQA Certification Limited, Registration No. 03351756, Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable Bedfordshire LU5 5ZX, United Kingdom. This certificate is the property of NQA and must be returned on request. Revision Date: Feb 2017 Page 2 of 2 Issue 5

### 公司于2024年在苏州购买的20亩工业用地

20 acres of industrial land purchased by the company in Suzhou in 2024

### 20000平方米在建厂房效果图 将在2026年8月竣工

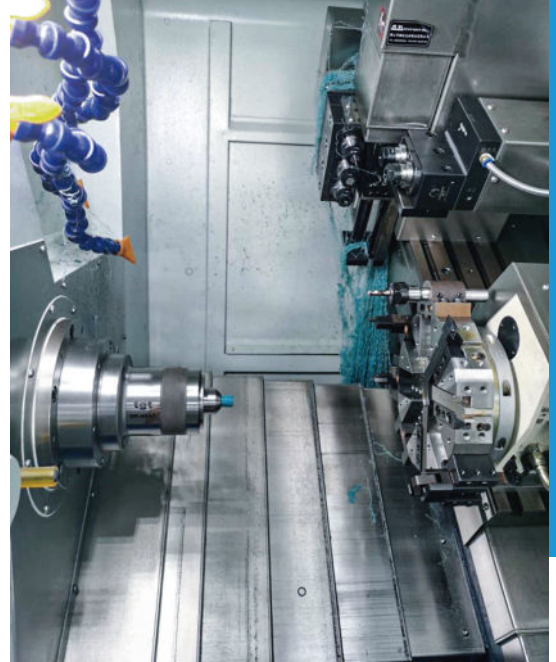
Rendering of a 20000 square meter factory under construction It will be completed in August 2026



## 车间面貌 WORKSHOP APPEARANCE

全面实施ISO9001-ISO/T16949质量管理，按照中华人民共和国铁道部行业标准实施，配置先进设备，热卷弹簧从材料直径 $\phi 16-80\text{mm}$ 全自动碾尖—全自动材料回温—数控卷簧—氮气炉保温—红外线控制温度全自动淬火炉等—整套生产线。冷卷弹簧从线径 $\phi 0.2-20\text{mm}$ 生产线齐全，是一家国内先进设备企业之一。

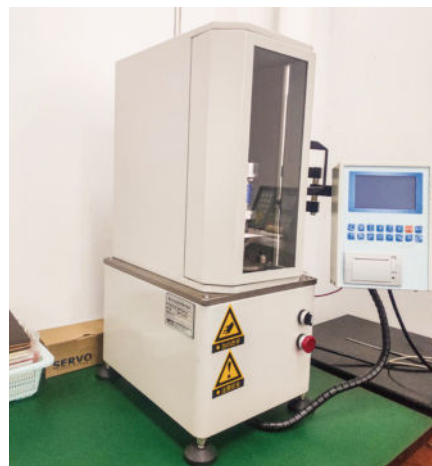
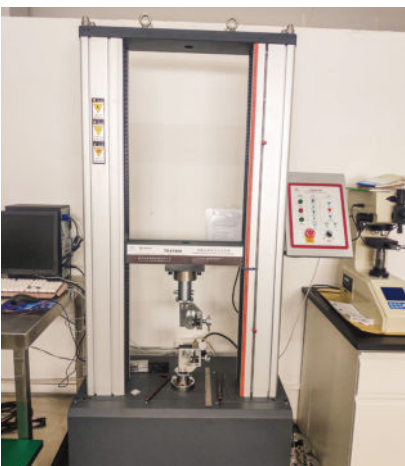
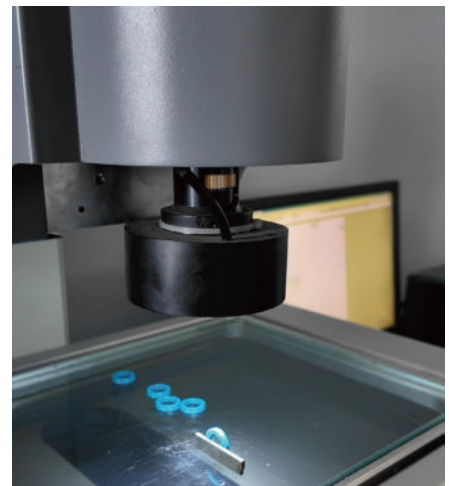
Fully implement iso9001-iso / t16949 quality management, implement in accordance with the industrial standards of the Ministry of Railways of the people's Republic of China, configure advanced equipment, and change the material diameter of hot coil spring  $\phi 16-80\text{mm}$  full-automatic tip grinding - full-automatic material return temperature - CNC coil spring - nitrogen furnace insulation - infrared temperature controlled full-automatic quenching furnace, etc. - a complete set of production lines. Cold coil spring from wire diameter  $\phi$  With complete production lines of  $0.2-20\text{mm}$ , it is one of the domestic advanced equipment enterprises.



## 检测设备 EQUIPMENT

公司现有弹簧拉压试验机从10N到300万N各种规格配制齐全，弹簧疲劳试验机200N到20万N，成套元素、金相分析仪，不同规格的探伤设备，材料扭转抗试验机等等检测设备完善。

At present, the company has spring tension and compression testing machines ranging from 10N to 3 million N, with complete preparation of various specifications, and spring fatigue testing machines ranging from 200N to 200000 N, Complete sets of elements, metallographic analyzers, flaw detection equipment of different specifications, material torsion resistance testing machine and other testing equipment are perfect.

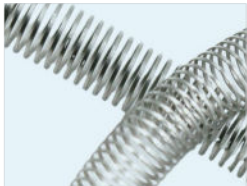


## 产品服务 PRODUCT SERVICE

## 医疗弹簧 MEDICAL SPRING



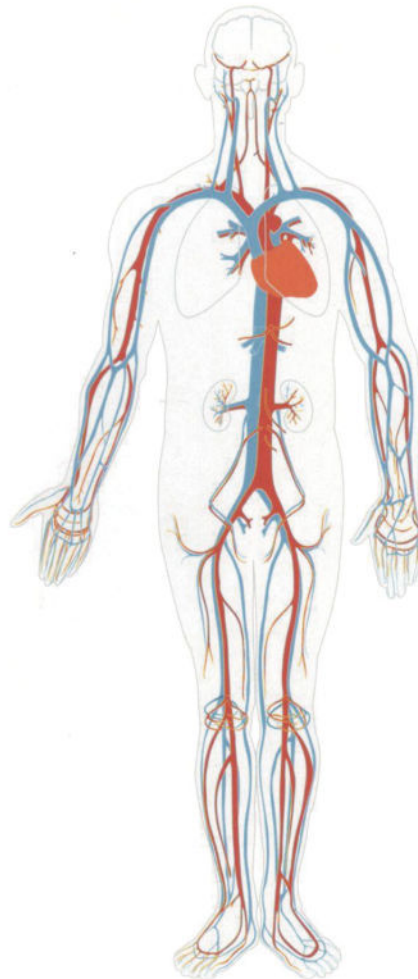
内窥镜弹簧管系列



气管插管弹簧系列



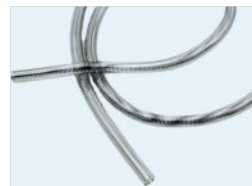
导引导丝弹簧系列



铂钨显影弹簧圈系列



精密导丝弹簧系列



鞘管扁丝弹簧系列

### 医疗弹簧系列产品介绍：

敏硕是一家从事多年医疗弹簧产品生产专业级厂家，医疗产品多元化，现主要生产各类医疗导丝、医疗导管、方线扁线加工圆管、特殊异型医疗产品的来样来图加工。导丝方面目前加工长度最长可以加工至10米。

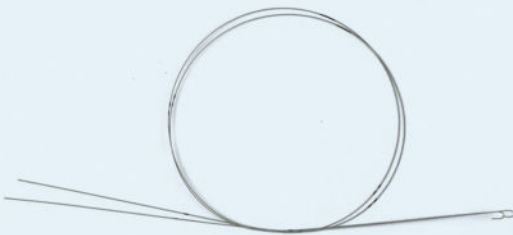
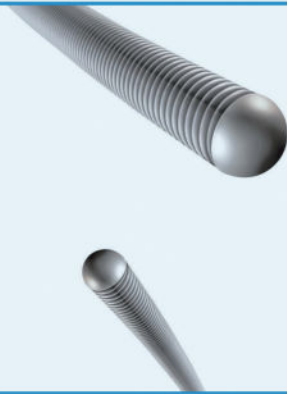
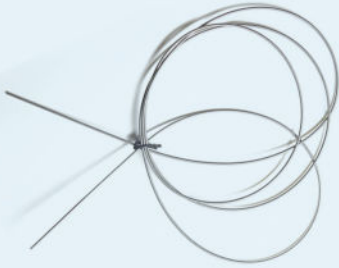
**适用于：** 医疗器械、医疗耗材、特殊非指定领域！

**材料选订：** 日本不锈钢、美国医用级304V、韩国不锈钢，也可来料加工订做！

**加工范围：** 加工丝线径0.03mm起 加工成品外径0.20mm起

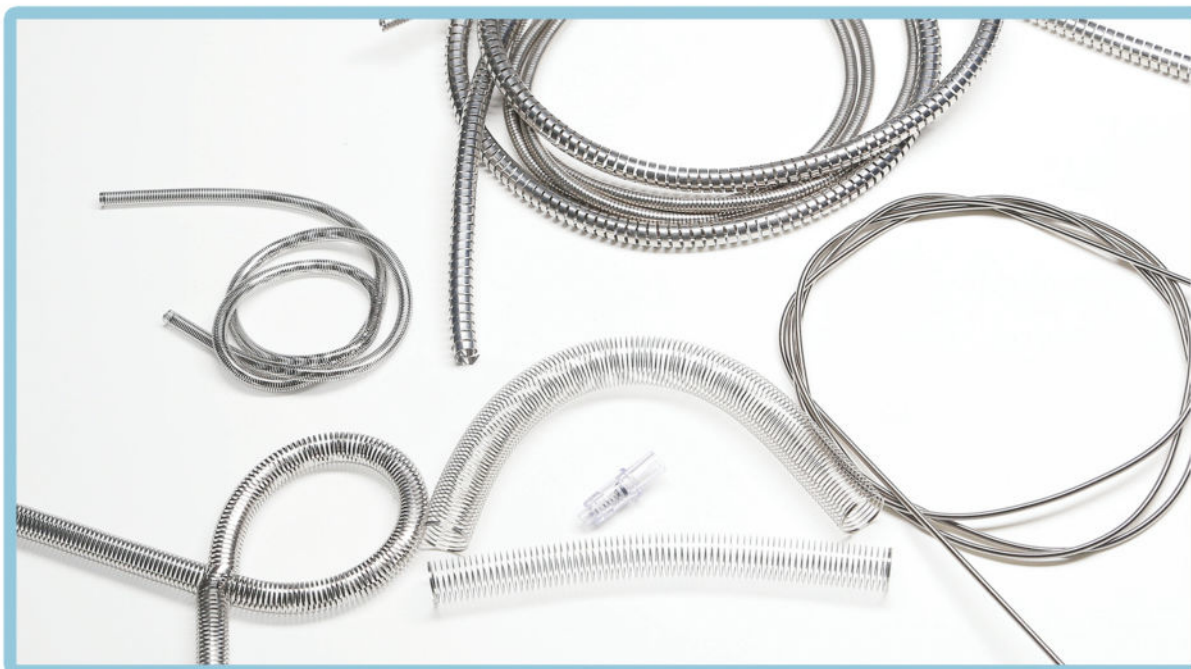
医疗弹簧  
MEDICAL SPRING

产品服务  
PRODUCT SERVICE



产品服务  
PRODUCT SERVICE

医疗弹簧  
MEDICAL SPRING



热极导丝弹簧



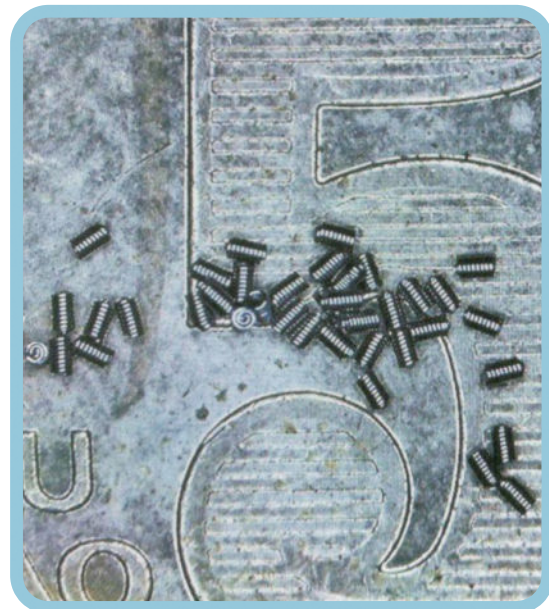
扁线导丝弹簧

医疗弹簧  
MEDICAL SPRING

产品服务  
PRODUCT SERVICE



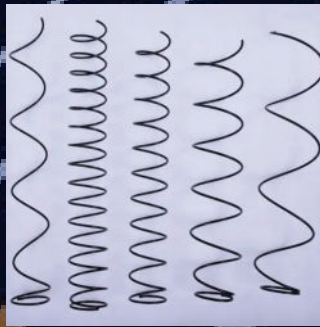
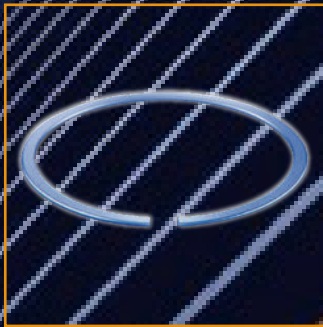
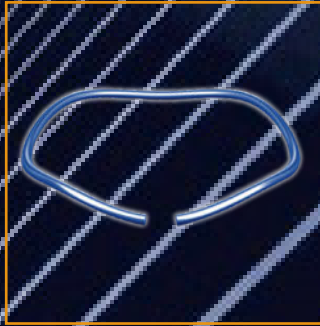
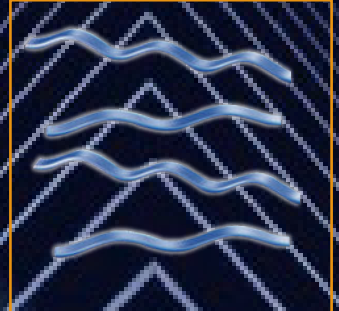
医疗精密镀金弹簧



铂钨系列显影弹簧圈

# 产品服务 PRODUCT SERVICE





## 产品服务 PRODUCT SERVICE

## 精密弹簧 PRECISION SPRING



精密弹簧又名小弹簧，因为这种精密弹簧线径很小，线径0.01-5mm。敏硕的精密弹簧生产线，采用当前世界上最先进的自动化设备组合成。

Precision spring is also known as small spring, because the wire diameter of this precision spring is very small, with a wire diameter of 0.01-5mm. Minshuo's precision spring production line is composed of the most advanced automatic equipment in the world.

**常用材料** 各类碳素钢、合金钢材料、琴钢线、Hastelloy 哈氏合金、Elgiloy、SAE6150、SAE9254、50CrV4、60Si2CrA、62Si2MnA、SK4、SK5、CK55、CK67、CK70、CK75、65Mn、SUS301、SUS304、SUS316、SUS631、17-7、InconelX-718、InconelX-750、GH145 等。

**加工范围** 线径 0.01mm-5mm，力值根据客户要求

**表面处理** 发蓝、发黑、磷化、电镀、电泳和喷塑、喷漆、达克罗、焦美特等。

**应用行业** 国防、海洋、航天、电子、机械、电气、钟表等领域。

**Common materials:** carbon steel, alloy steel, piano steel wire, Hastelloy Hastelloy, Elgiloy, sae6150, sae9254, 50CrV4, 60si2cra, 62si2mna, SK4, SK5, ck55, ck67, ck70, ck75., 65Mn, SUS301, SUS304, SUS316, sus631, 17-7, inconelx-718, inconelx-750, gh145, etc.

**The processing range:**0.01mm-5mm, and the force value is according to the customer's requirements

**Surface treatment methods** include bluing, blackening, phosphating, electroplating, electrophoresis and plastic spraying, painting, Dacromet, jomett, etc.

**Application Industry:** national defense, marine, aerospace, electronics, machinery, electrical, clocks and watches and other fields.

**精密弹簧**  
**PRECISION SPRING**

**产品服务**  
**PRODUCT SERVICE**



产品服务  
PRODUCT SERVICE

精密弹簧  
PRECISION SPRING



# 产品服务

PRODUCT SERVICE

# 热卷弹簧

HOT WOUND COILED SPRING



热卷弹簧又名大弹簧，生产过程采用热卷工艺。用弹性材料制成的零件在外力作用下发生形变，除去外力后又恢复原状。亦作“弹簧”。一般用弹簧钢制成。热卷弹簧形状为右旋和左旋，圆柱形拉（压）力弹簧，扭簧，以及锥形、中凸形、中凹形大弹簧等。

Hot coil spring, also known as large spring, adopts hot coil technology in the production process. The parts made of elastic materials deform under the action of external force, and return to the original state after removing the external force. Also known as "spring". Generally made of spring steel. Hot coil springs are right-handed and left-handed, cylindrical tension (compression) spring, torsion spring, conical, medium convex and medium concave large springs, etc.

**常用材料** 合金弹簧钢：60Si2MnA、50CrVA、4Cr13、60Si2CrA 等

**加工范围** 线径16-100mm，力值根据客户要求

**表面处理方法** 电镀、喷塑、喷漆、达克罗、焦美特等 ...

**应用行业** 国防、海洋、航天、铁路、核电、风电、火电、工程机械、矿山机械、建筑机械、电梯等。

**Common materials:** alloy spring steel: 60Si2MnA, 50CrVA, 4Cr13, 60Si2CrA, etc

**The processing range :** 16mm-100mm , and the force value is according to the customer's requirements

**Surface treatment methods:** electroplating, plastic spraying, painting, Dacromet, jiaomeite, etc

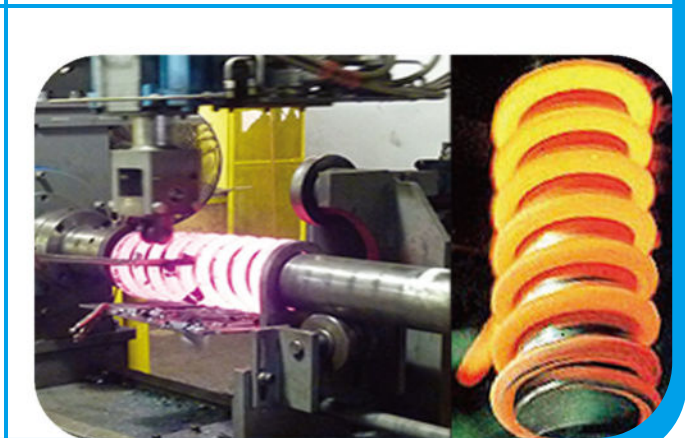
**Application industries:** national defense, marine, aerospace, railway, nuclear power, wind power, thermal power, engineering machinery, mining machinery, construction machinery, elevator, etc.



## 热卷弹簧

### HOT WOUND COILED SPRING

## 产品服务 PRODUCT SERVICE



## 斜圈弹簧/触指弹簧 CANTED COIL SPRING

## 产品服务 PRODUCT SERVICE

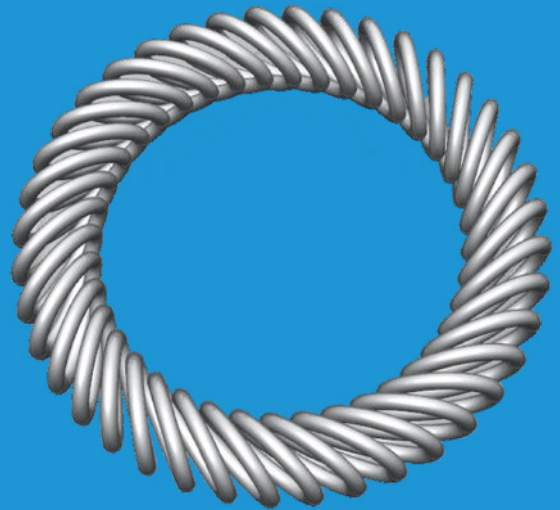
斜圈弹簧由连续的斜面线圈组成，这种设计使得它们能够提供更大的变形范围和更均匀的应力分布。这种特性使得斜圈弹簧在各种应用中都能够提供准确的弹性支撑，并且可以根据具体需求进行定制，以满足不同工程要求。

本公司制作的斜圈指弹簧特点如下：

- 1、结构简单，体积小，用料少，成本低；满足器件设计上空间小尺寸的要求，适用于紧凑型设计；最少的部件数量，简化了连接器件的设计。
- 2、多点接触，高集中力，可实现几乎无损耗接触。保证较大的载流量；导电性好，电动及热稳定高。
- 3、每个接触点的接触压力不高，有很好的耐磨性。
- 4、独特的结构使其具有宽余的工作范围，允许在接触面存在较大公差；对加工误差和装配误差有较大的适应性，更适合大规模生产。

本公司斜圈弹簧的应用范围：

- 高中压开关 · 母线连接件 · 高电流连接件 · 高压电链尾端件
- 机械电子应用等



The inclined coil spring is composed of continuous inclined coils, which allows them to provide a larger deformation range and a more uniform stress distribution. This characteristic enables the coil spring to provide accurate elastic support in various applications and can be customized according to specific needs to meet different engineering requirements.

The characteristics of the inclined coil spring produced by our company are as follows:

1. Simple structure, small volume, low material consumption, and low cost; Meet the requirements of small space size in device design, suitable for compact design; The minimum number of components simplifies the design of connecting devices.
2. Multi point contact, high concentration force, can achieve almost zero loss contact. Ensure a large current carrying capacity; Good conductivity, high electrical and thermal stability.
3. The contact pressure at each contact point is not high, and it has good wear resistance.
4. The unique structure gives it a wide working range, allowing for significant tolerances on the contact surface; Has greater adaptability to machining and assembly errors, and is more suitable for large-scale production.

The application scope of our company's inclined coil springs includes:

1. High and medium voltage switches
2. Busbar connectors
3. High current connectors
4. High voltage chain end fittings
5. Mechanical and electronic applications, etc.



## 产品服务 PRODUCT SERVICE

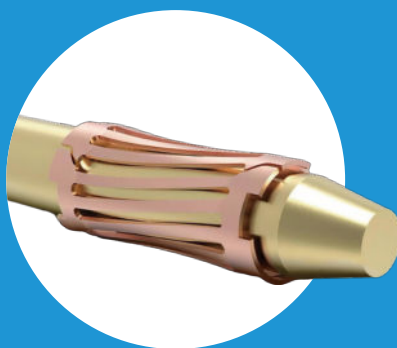
## 冠簧 CROWN SPRING

冠簧是连接器核心电接触元件，也称冠簧端子 / 冠簧插孔；通常为圆筒状，内壁均匀分布弹性指状接触片，由铍铜、磷青铜经精密冲压、热处理制成，嵌于套筒沟槽中；插针插入时，指片径向弹性变形形成多点环抱接触。

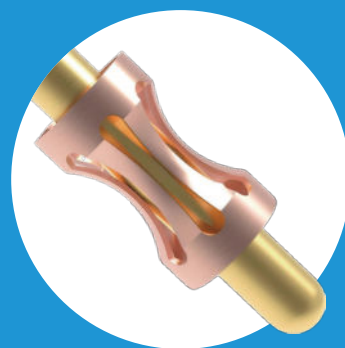
Crown spring is the core electrical contact element of a connector, also known as crown spring terminal/crown spring socket; Usually cylindrical in shape, with elastic finger shaped contact pieces evenly distributed on the inner wall, made of beryllium copper and phosphor bronze through precision stamping and heat treatment, embedded in the groove of the sleeve; When inserting the pin, the finger plate undergoes radial elastic deformation to form multi-point wrap around contact.



「接触面大电阻小」  
High contact surface  
and low resistance



「高寿命不易变形」  
Long lifespan, not  
easily deformed



「接触稳固可靠抗震动」  
Stable and reliable contact,  
resistant to vibration

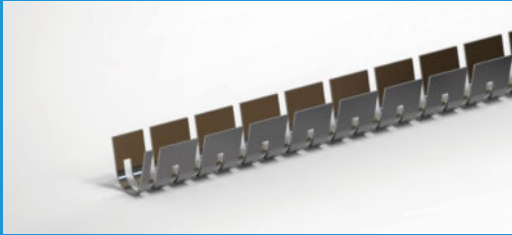


# 泛塞封弹簧

## SEAL SPRING

# 产品服务

## PRODUCT SERVICE



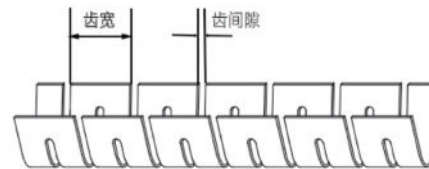
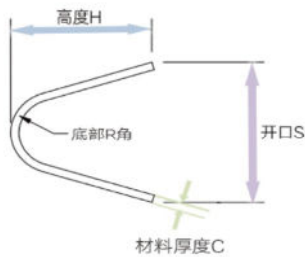
### V 型弹簧

### V-SHAPED SPRING

以独特的V形截面，实现高接触压紧力，适用高速往复或旋转工况。

With a unique V-shaped cross-section, it achieves high contact compression force and is suitable for high-speed reciprocating or rotating working conditions.

#### 弹簧规格详细：



材料	规格	高度H mm	开口S mm	厚度C	底部 R角	齿宽	齿间隙
301	1.15*1.35*0.08	1.15	1.35	0.08	0.3	0.8	0.2
	1.20*0.95*0.10	1.2	0.95	0.1	0.3	0.8	0.23
	1.20*1.20*0.08	1.2	1.2	0.08	0.3	0.8	0.23
	1.20*1.20*0.10	1.2	1.2	0.1	0.3	0.8	0.23
	1.50*1.50*0.06	1.5	1.5	0.06	0.45	1.05	0.23
	1.50*1.50*0.10	1.5	1.5	0.1	0.4	1	0.23
	1.70*1.70*0.06	1.7	1.7	0.06	0.4	1.2	0.2
	1.90*1.95*0.10	1.9	1.95	0.1	0.5	1.7	0.3
	2.00*2.00*0.06	2	2	0.06	0.4	1.2	0.2
	2.00*2.00*0.08	2	2	0.08	0.5	1.2	0.23
	2.00*2.00*0.12	2	2	0.12	0.5	1.2	0.2
	2.50*2.50*0.08	2.5	2.5	0.08	0.5	1.2	0.2
	2.50*2.50*0.10	2.5	2.5	0.1	0.45	1.2	0.4
	2.50*2.50*0.12	2.5	2.5	0.12	0.5	2	0.4
	2.60*2.25*0.12	2.6	2.25	0.12	0.6	2	0.4
	2.60*2.80*0.16	2.6	2.8	0.16	0.7	1.9	0.4
	2.70*3.00*0.12	2.7	3	0.12	0.6	2	0.4
	2.70*3.20*0.12	2.7	3.2	0.12	0.6	2	0.4
	2.70*3.50*0.15	2.7	3.5	0.15	0.7	1.9	0.4
	2.80*2.30*0.08	2.8	2.3	0.08	0.4	1.2	0.3
	2.80*2.80*0.12	2.8	2.8	0.12	0.6	2	0.4
	3.50*3.50*0.15	3.5	3.5	0.15	0.9	3	0.6
	3.50*3.50*0.18	3.5	3.5	0.18	0.9	3	0.6
	4.00*4.00*0.15	4	4	0.15	0.9	3	0.6
	4.00*4.00*0.18	4	4	0.18	0.9	3	0.6
	4.00*4.20*0.18	4	4.2	0.18	0.8	3	0.6
	4.17*3.44*0.18	4.17	3.44	0.18	1.2	3	0.6
	4.15*3.65*0.18	4.15	3.65	0.18	0.9	3.5	0.6
	4.20*4.80*0.18	4.2	4.8	0.18	0.9	3.5	0.6
	4.30*4.50*0.15	4.3	4.5	0.15	1.15	3	0.6
4.30*4.50*0.18	4.3	4.5	0.18	1.2	3	0.6	
8.70*9.25*0.50	8.7	9.25	0.5	1.65	5.1	0.9	

材料	规格	高度H mm	开口S mm	厚度C	底部 R角	齿宽	齿间隙
304	1.20*1.20*0.10	1.2	1.2	0.1	0.3	0.8	0.23
	2.70*2.26*0.15	2.7	2.26	0.15	0.6	2.75	0.25
	2.50*2.50*0.12	2.5	2.5	0.12	0.5	2	0.4
	1.20*1.20*0.10	1.2	1.2	0.1	0.3	0.8	0.23
	1.50*1.50*0.10	1.5	1.5	0.1	0.4	1	0.23
	1.90*1.95*0.10	1.9	1.95	0.1	0.5	1.7	0.3
	2.50*2.50*0.12	2.5	2.5	0.12	0.5	2	0.4
	2.70*3.50*0.12	2.7	3.5	0.12	0.7	1.9	0.4
	2.70*2.80*0.12	2.7	2.8	0.12	0.6	2	0.4
	2.70*3.00*0.12	2.7	3	0.12	0.6	2	0.4
C276 (哈氏合金)	2.70*3.20*0.12	2.7	3.2	0.12	0.6	2	0.4
	4.00*4.00*0.17	4	4	0.17	0.9	3	0.6
	4.17*3.44*0.17	4.17	3.44	0.17	0.9	3.5	0.6
	4.30*4.50*0.17	4.3	4.5	0.17	1.2	3	0.6
	1.20*0.95*0.10	1.2	0.95	0.1	0.3	0.8	0.23
	1.20*1.20*0.10	1.2	1.2	0.1	0.3	0.8	0.23
	1.50*1.50*0.10	1.5	1.5	0.1	0.4	1	0.23
	1.90*1.95*0.10	1.9	1.95	0.1	0.5	1.7	0.3
	2.50*2.50*0.12	2.5	2.5	0.12	0.45	1.2	0.2
	2.65*3.50*0.12	2.65	3.5	0.12	0.6	2	0.4
316L	2.70*3.20*0.12	2.7	3.2	0.12	0.6	2	0.4
	2.70*3.20*0.15	2.7	3.2	0.15	0.6	2	0.4
	2.80*2.80*0.12	2.8	2.8	0.12	0.6	2	0.4
	2.80*2.80*0.15	2.8	2.8	0.15	0.68	2	0.4
	2.80*3.00*0.12	2.8	3	0.12	0.6	2	0.8
	3.50*3.50*0.17	3.5	3.5	0.17	0.9	3	0.6
	4.00*4.00*0.17	4	4	0.17	0.9	3	0.6
	4.17*3.44*0.17	4.17	3.44	0.17	0.9	3.5	0.6
	4.20*4.80*0.17	4.2	4.8	0.17	1.2	3	0.6
	4.30*4.50*0.17	4.3	4.5	0.17	1.15	3	0.6
8.70*9.25*0.50	8.7	9.25	0.5	1.65	5.1	0.9	

\*材质包括各种301/304/316L不锈钢，以及哈氏合金、Elgiloy合金、Inconel 718合金等

产品服务  
PRODUCT SERVICE

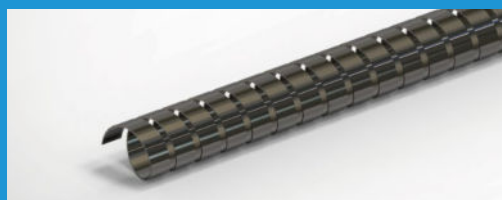
泛塞封弹簧  
SEAL SPRING

H型弹簧

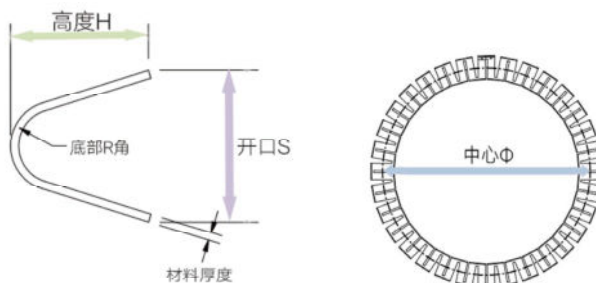
H-SHAPED SPRING

H连续螺旋式结构，弹力输出均匀，可为静密封或高载荷密封件提供稳定支撑。

H continuous spiral structure, uniform elastic output, can provide stable support for static seals or high load seals.



弹簧规格详细：



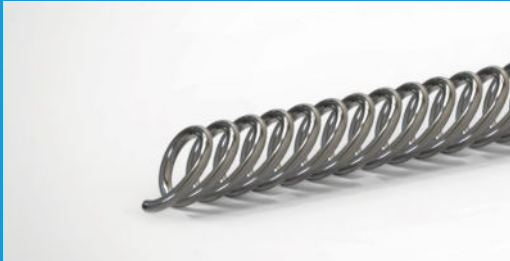
中心*开口(S)*高度(H)	底部R角	材料厚度
Φ2.30*0.60*0.60	0.1	0.06
Φ2.40*0.60*0.60	0.1	0.06
Φ2.70*1.00*0.70	0.2	0.06
Φ3.00*0.60*0.60	0.16	0.06
Φ3.10*1.20*1.00	0.25	0.1
Φ3.10*1.20*1.20	0.3	0.1
Φ3.50*1.20*1.20	0.35	0.1
Φ3.60*1.30*0.60	0.2	0.1
Φ3.80*1.20*1.20	0.4	0.1
Φ4.20*0.60*0.55	0.15	0.1
Φ4.50*1.20*1.20	0.3	0.1
Φ4.60*1.00*1.20	0.3	0.1
Φ5.00*0.70*0.70	0.18	0.06
Φ5.30*1.85*1.90	0.4	0.12
Φ5.40*1.60*2.00 (单孔)	0.5	0.12
Φ5.40*1.90*2.00 (单孔)	0.5	0.12
Φ5.40*1.90*2.00 (内小)	0.45	0.12
Φ5.40*2.00*2.00 (双孔)	0.6	0.15
Φ5.50*1.20*1.20	0.3	0.1
Φ6.00*1.20*1.20	0.3	0.1
Φ6.00*1.50*1.50	0.35	0.12
Φ6.50*1.20*1.20	0.35	0.1
Φ6.50*1.50*1.50	0.4	0.12
Φ6.60*0.60*0.55	0.2	0.06
Φ7.50*1.50*1.50	0.4	0.12
Φ7.50*1.20*1.20	0.3	0.1

中心*开口(S)*高度(H)	底部R角	材料厚度
Φ8.00*1.20*1.20	0.35	0.1
Φ8.20*1.60*2.20	0.28	0.1
Φ8.50*1.20*1.20	0.3	0.1
Φ8.50*1.50*1.50	0.45	0.12
Φ8.50*1.80*2.00	0.4	0.12
Φ9.00*2.00*2.00	0.5	0.1
Φ9.00*2.00*1.95(R)	0.55	0.15
Φ9.00*2.00*2.00(R)	0.55	0.12
Φ9.20*1.65*2.20	0.28	0.1
Φ9.50*1.20*1.20	0.28	0.1
Φ9.80*0.95*1.10	0.25	0.1
Φ10.50*1.20*1.20	0.3	0.1
Φ10.50*1.50*1.50	0.4	0.12
Φ10.80*1.60*2.20	0.25	0.1
Φ10.80*2.00*1.95(R)	0.55	0.15
Φ11.50*1.20*1.20	0.3	0.1
Φ12.00*1.50*1.50	0.45	0.12
Φ12.50*1.70*2.00	0.35	0.12
Φ12.50*1.80*2.00(R)	0.35	0.12
Φ12.50*1.60*2.25	0.2	0.1
Φ12.50*1.90*2.20	0.25	0.1
Φ12.80*1.95*1.95(R)	0.55	0.15
Φ14.00*1.50*1.50	0.45	0.12
Φ14.10*2.3*1.90	0.3	0.1
Φ14.50*1.20*1.20	0.35	0.1
Φ14.50*1.50*1.50	0.45	0.12
Φ17.50*1.30*1.50	0.35	0.1

\*材质包括各种301/304/316L不锈钢，以及哈氏合金、Elgiloy合金、Inconel 718合金等

# 泛塞封弹簧 SEAL SPRING

# 产品服务 PRODUCT SERVICE



## N型弹簧/斜圈弹簧

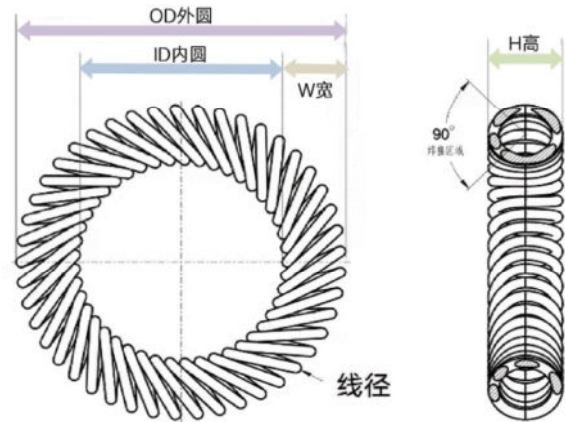
## CANTED COIL SPRING N-TYPE SPRING

通过斜线式绕制，可在较大偏移范围内保持持续预紧，并兼具电接触功能。

By using diagonal winding, it can maintain continuous pre tension within a large offset range and also have electrical contact function.

线径	ID内圆mm	OD外圆mm	H高	W宽
0.15	118	120	1.2	0.9
	2	4.4	1.4	1.2
	2.2	4.4	1.4	1.1
	2.2	4.6	1.4	1.2
	2.4	4.8	1.4	1.2
	2.6	5	1.4	1.2
0.18	3.6	6	1.4	1.2
	1.6	4	1.4	1.2
	2.1	4.3	1.3	1.1
	2.6	5	1.3	1.1
	3.3	5.7	1.4	1.2
0.2	3.6	5.8	1.3	1.1
	7.5	10.7	1.6	1.2
	1.8	4.2	1.4	1.2
0.22	2.1	4.7	1.4	1.3
	3.6	6	1.4	1.2
	4.2	6.6	1.4	1.2
0.25	6.4	8.6	1.5	1.1
	1930	1972	2.4	2.15
	3.4	7.2	2.3	1.9
	3.8	7.4	2.3	1.8
0.3	3.9	7.1	2	1.6
	3.8	7.6	2.3	1.9
	23	27	2.3	2
	4.2	7.8	2.2	1.8
0.3	4.5	8.8	2.3	2.15
	6.4	10.2	2.2	1.9
	16.5	21.5	2.9	2.5
	19.2	23	2.2	1.9

### 弹簧规格详细：



线径	ID内圆mm	OD外圆mm	H高	W宽
0.3	3.8	7.8	2.3	1.8
	3.9	8	2.4	2
	4	8.2	2.3	2.1
	4	7.4	2.1	1.7
	4.2	7.8	2.2	1.8
0.3	4.5	8.8	2.3	2.15
	6.4	10.2	2.2	1.9
	16.5	21.5	2.9	2.5
	19.2	23	2.2	1.9

\*材质包括各种301/304/316L不锈钢，以及哈氏合金、Elgiloy合金、Inconel 718合金等



# 产品服务

## PRODUCT SERVICE

# 泛塞封弹簧

## SEAL SPRING

### U型弹簧

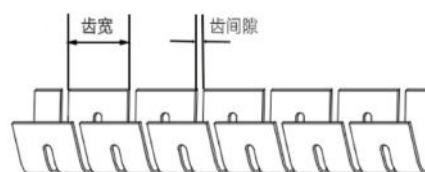
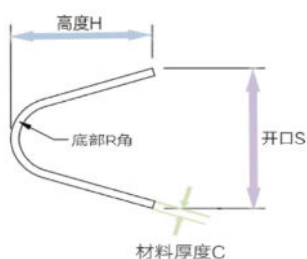
### U-SHAPED SPRING

以独特的U形截面，实现高接触压紧力，适用高速往复或旋转工况。

With a unique U-shaped cross-section, it achieves high contact compression force and is suitable for high-speed reciprocating or rotating working conditions.



#### 弹簧规格详细：



材料	规格	高度Hmm	开口Smm	材料厚度C	底部R角	齿宽	齿间隙
301	2.60*2.20*0.10	2.6	2.2	0.1	0.95	1.2	0.3
	2.70*2.55*0.15	2.7	2.55	0.15	0.9	1.3	0.23
	4.10*4.40*0.20	4.1	4.4	0.2	1.5	2.8	0.6
	4.75*4.85*0.26	4.75	4.85	0.26	1.6	2.8	0.6
	4.85*4.75*0.26	4.85	4.75	0.26	1.6	2.8	0.6
	5.30*5.50*0.26	5.3	5.5	0.26	1.6	2.8	0.6
	6.00*6.50*0.26	6	6.5	0.26	2.2	2.8	0.6
	6.00*6.85*0.26	6	6.85	0.26	2.2	2.8	0.6
304	2.05*1.30*0.12	2.05	1.3	0.12	0.5	1.1	0.17
	2.70*2.00*0.15	2.7	2	0.15	0.9	1.2	0.3
	3.75*3.25*0.20	3.75	3.25	0.2	1.4	1.9	0.3
	5.30*5.50*0.26	5.3	5.5	0.26	1.6	2.8	0.6
	6.00*6.50*0.26	6	6.5	0.26	2.2	2.8	0.6
316L	2.05*1.30*0.12	2.05	1.3	0.12	0.55	1	0.19
	1.45*0.95*0.10	1.45	0.95	0.1	0.3	0.9	0.13
	1.50*1.40*0.10	1.5	1.4	0.1	0.68	1	0.2
	1.90*2.10*0.12	1.9	2.1	0.12	0.9	1.1	0.2
	2.00*2.70*0.15	2	2.7	0.15	0.9	1.3	0.25
	3.75*3.25*0.20	3.75	3.25	0.2	1.4	1.9	0.3

\*材质包括各种301/304/316L不锈钢，以及哈氏合金、Elgiloy合金、Inconel 718合金等

# 泛塞封弹簧

## SEAL SPRING

# 产品服务

## PRODUCT SERVICE

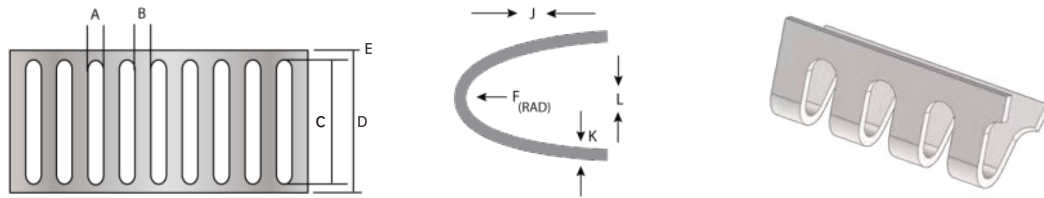


### 全接触弹簧

### FULL CONTACT SPRING

全接触弹簧是密封领域的特殊弹簧，通过密封唇圆周的连续接触力，保障低温、高压、真空等极端环境下的可靠密封，常见 V 型、O 型等结构；它广泛用于工业密封（如 LNG、半导体）、汽车航天、医疗及新能源领域，多采用 316 不锈钢等耐腐蚀材料，兼具高密封性、抗疲劳性，是高端制造中的关键元件。

Full contact spring is a special spring in the field of sealing, which ensures reliable sealing in extreme environments such as low temperature, high pressure, and vacuum through the continuous contact force of the sealing lip circumference. Common structures include V-shaped, O-shaped, etc; It is widely used in industrial sealing (such as LNG, semiconductors), automotive aerospace, medical and new energy fields. It is mostly made of corrosion-resistant materials such as 316 stainless steel, and has high sealing and fatigue resistance. It is a key component in high-end manufacturing.



规格 (mm)

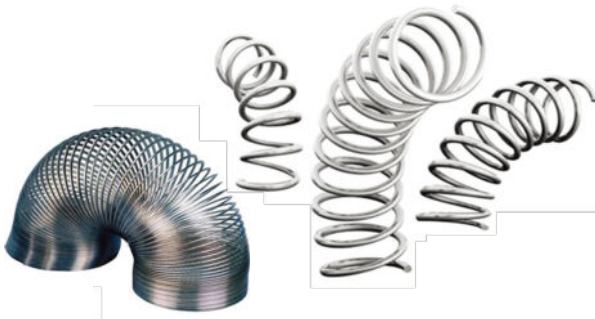
A	B	C	D	E	F	J	K	L
1.26	1.26	5.12	7.10	0.98	0.62	3.44	0.35	3.41
1.26	1.26	7.93	10.60	1.32	0.77	4.84	0.52	4.58
1.26	1.26	9.59	13.19	1.81	1.53	5.88	0.52	6.61
1.27	1.27	12.58	17.92	2.66	3.05	7.25	6.65	10.04

\*材质包括各种301/304/316L不锈钢，以及哈氏合金、Elgiloy合金、Inconel 718合金等



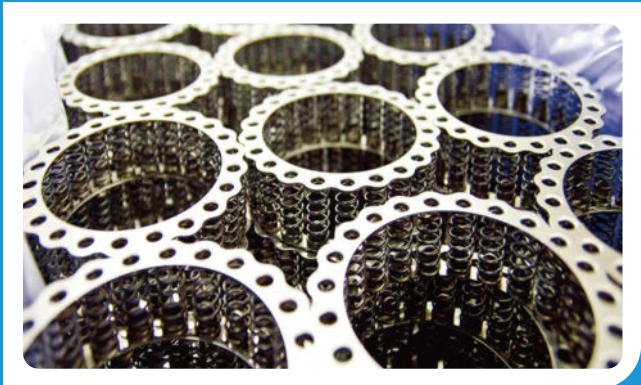
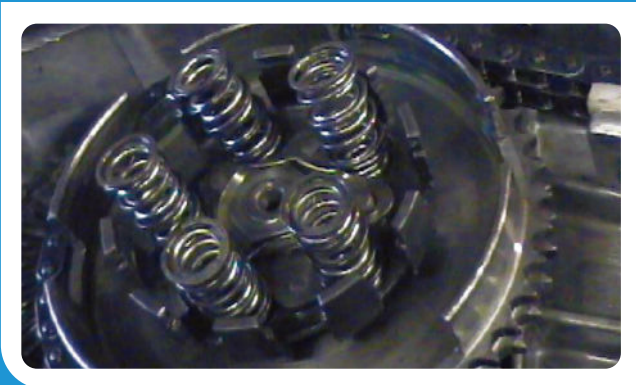
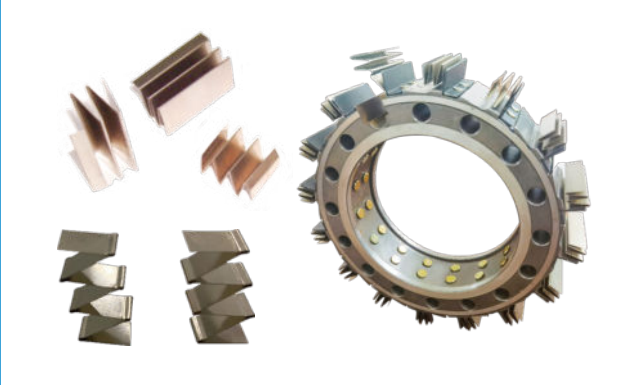
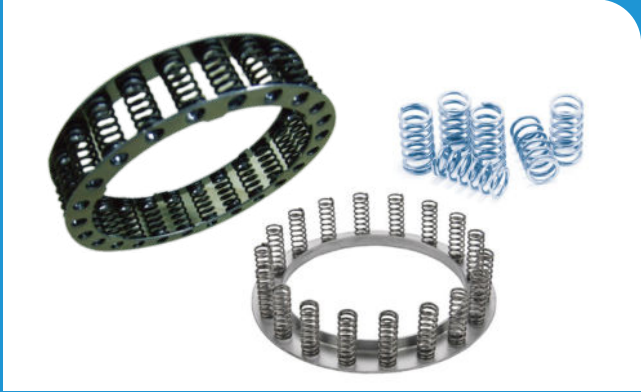
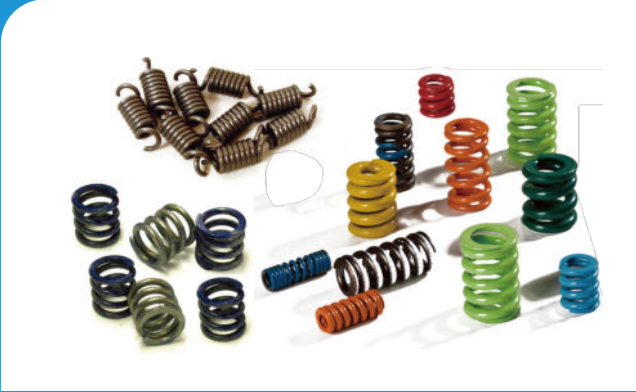
产品服务  
PRODUCT SERVICE

机械/机车弹簧  
MECHANICAL/MOTOR SPRINGS



# 离合器/液力变矩器弹簧 CLUTCH/HYDRAULIC TORQUE CONVERTER SPRING

# 产品服务 PRODUCT SERVICE



## 产品服务 PRODUCT SERVICE

## 波形弹簧及绕制挡圈 WAVE SPRING & WINDINGRING



### 波形弹簧的种类：单层波形弹簧和多层波形弹簧

单层波形弹簧分为单层圆环型波形弹簧；单层开口型波形弹簧；单层搭口型波形弹簧；单层圆线波形弹簧。  
多层波形弹簧分为多层串联式波形弹簧（又分成平端面型和波端面型）；多层叠峰式波形弹簧。

### Types of wave springs: single wave spring and multi-layer wave spring

The single wave spring is divided into single layer ring type wave spring; Single layer open wave spring; Single layer joint type wave spring; Single layer circular wire wave spring. The multi-layer wave spring is divided into multi-layer series wave spring (also divided into flat end type and wave end type); Multi layer stacked wave spring.

### 绕制型挡圈

是用扁丝通过卷绕而加工的挡圈，没有突耳影响装配，易于安装与拆卸。分为定位卡圈和波圈。

### Retaining ring

It is a retaining ring made of flat wire by winding. It has no lug to affect the assembly and is easy to install and disassemble. It is divided into positioning ring and wave ring.

**常用材料** 碳钢：65Mn: ASTM (1074, 1095)-A684; AISI 1070 Carbon Steel; 不锈钢：SUS 304; 17-7-PH/C, SUS631; SUS 302; 高温合金钢：Inconel X-750; GH145; Inconel X-718

**加工范围** 丝宽 0.1mm~20mm, 丝厚 0.1~6mm, 外径 1mm~500mm, 力值根据客户要求

**表面处理** 发蓝、发黑、磷化、电镀、电泳和喷塑、达克罗、焦美特等 ...

**应用温度范围** 根据材料的不同，可在常温 -800°C 之间使用。

**应用行业** 电机、轴承、球阀、泄压阀、安全阀、离合器、旋转接头、汽车离合器用分离轴承、齿轮传动和机械密封；重型机械、压缩机、机床和石油机械；液压传动、轴承预压预紧装置、园林工具等场合。

**Common materials:** carbon steel: 65Mn: ASTM (1074, 1095) - a684; AISI 1070 Carbon Steel; Stainless steel: SUS 304; 17-7-PH/C, SUS631; SUS 302; High temperature alloy steel: Inconel X-750; GH145; Inconel X-718

**Processing range:** wire width 0.1 mm ~ 20 mm, wire thickness 0.1 ~ 6 mm, outer diameter 1 mm ~ 500 mm, force value according to customer requirements

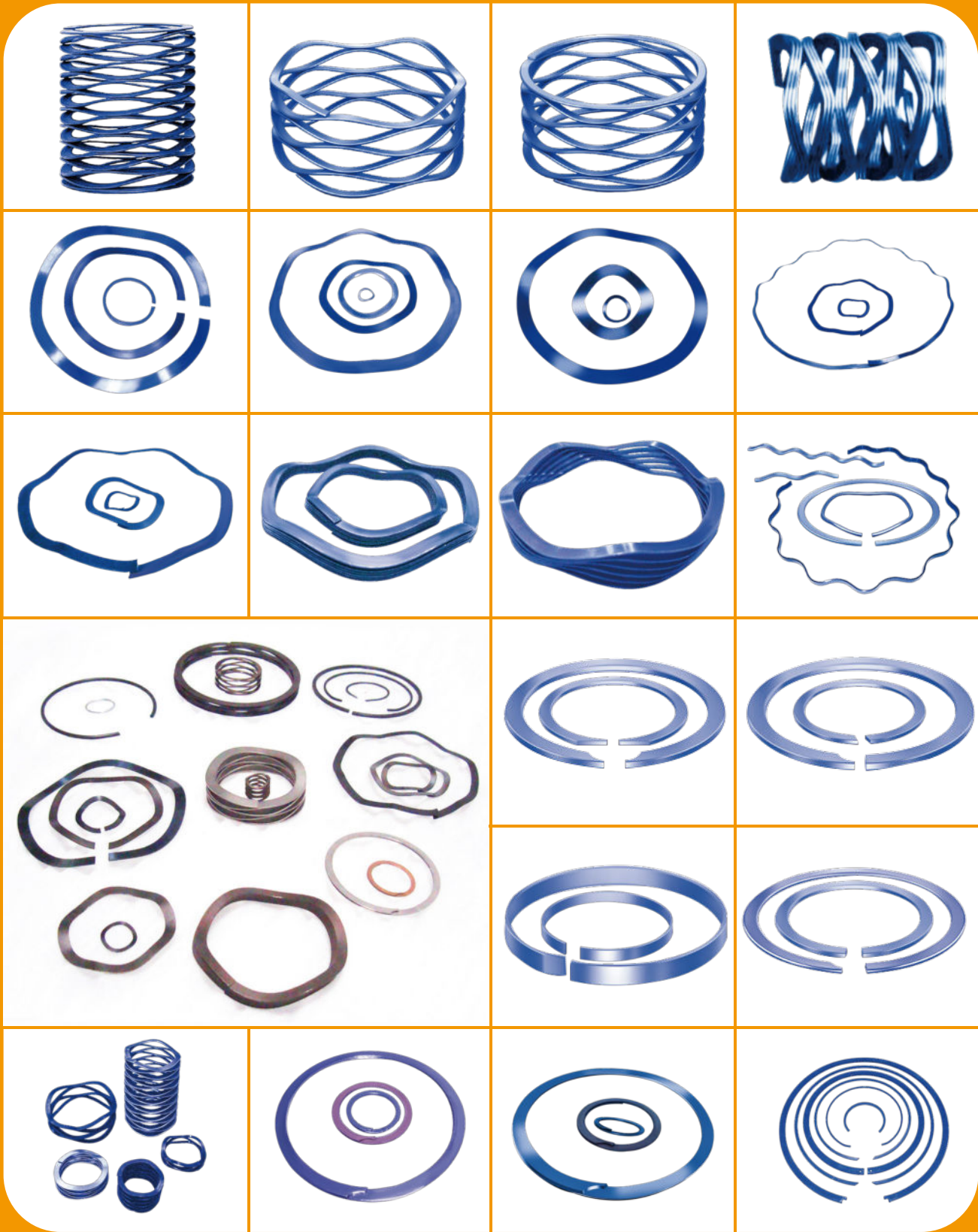
**Surface treatment methods:** bluing, blackening, phosphating, electroplating, electrophoresis and spray, Dacromet, jiaomeite, etc

**The application temperature range** is - 800 °C according to different materials ° C.

**Applications:** motor, bearing, ball valve, pressure relief valve, safety valve, clutch, rotary joint, release bearing for automobile clutch, gear transmission and mechanical seal; Heavy machinery, compressors, machine tools and petroleum machinery; Hydraulic transmission, bearing preloading device, garden tools and other occasions.

**波形弹簧及绕制挡圈**  
**WAVE SPRING & WINDING RING**

**产品服务**  
**PRODUCT SERVICE**



## 产品服务 PRODUCT SERVICE

## 涡卷弹簧及恒力弹簧 POWER AND CONSTANT FORCE SPRING

发条弹簧的种类：恒力弹簧、涡卷弹簧、碳刷弹簧、塔形弹簧

用 SUS301 不锈钢和 62Si2MnA、SK4、SK5 碳钢等原材料，厚度 0.10mm-10.0mm，层数为 1-3 层的各种收线类发条、恒力发条、游丝发条，恒力弹簧、涡卷弹簧，发条、定时器发条、升降发条、回卷发条、油锯发条、伸宿发条、玩具发条 卷尺发条、平衡器（机）发条、健身器发条、不锈钢发条、统机走闹条、机械发条、电风扇升降发条、玩具发条、汽车安全带发条、发动机启动发条、电线拉线发条、耳机收线发条、电刷发条、自动售货机发条音乐发条、电话线发条、电熨斗发条、电饭煲发条、吸尘器发条等。

主要应用于各种汽车、电子电器，马达、玩具、仪器仪表器、电力机械、环保除尘设备、启动机械设备、压缩机等工业领域。

Types of spring: constant force spring, scroll spring, carbon brush spring, tower spring

Common materials: SUS301 stainless steel, 62Si2MnA, SK4, SK5 carbon steel and other raw materials, thickness 0.10mm-10.0mm, with layers of 1-3 layers, various types of winding, constant force and wandering wire, Constant force spring, scroll spring, hairpin, timer hair strip, lifting strip, rewind strip, oil saw hair strip, extended hair strip, toy hair tape, balancer (machine) hair strip, fitness machine hair strip, noRusty steel hair strip, unified machine running noise strip, mechanical hair strip, electric fan lifting hair strip, toy hair strip, automobile Belt hair, engine start, wire and cable, headset, brush Note, music, telephone line, iron, rice cooker, etc Dust cleaner hair, etc. It is mainly used in various automobiles, electronic appliances, motors, toys, instruments, electric machinery, etc Environmental protection dust removal equipment, starting machinery equipment, compressors and other industrial fields.



**涡卷弹簧及恒力弹簧**  
**POWER AND CONSTANT FORCE SPRING**

**产品服务**  
**PRODUCT SERVICE**



## 产品服务 PRODUCT SERVICE

## 模具弹簧 DIE SPRING

敏硕梯形 / 矩形模具弹簧主要用于冲压模具、汽车模具、铸造模具、陶瓷模具、精密模具、塑料模具、五金模具、注塑模具等模具加工企业或使用模具公司以及结构精密的机械设备等。它还可作为离合器、制动器、农业机械和航空装置使用。在高应力和重负荷的工作环境中，他们是模具弹簧或重负荷压缩弹簧的理想选择。它具有安装体积小、弹性好、刚度大、精密度高、制作材料呈矩形及表面分色喷涂（镀），外表美观等特点。

MASCOT trapezoidal / rectangular die spring is mainly used in stamping mold, automobile mold, casting mold, ceramic mold, precision mold, plastic mold, hardware mold, injection mold, mold processing enterprises or using mold companies, as well as mechanical equipment with precision structure. It can also be used as clutch, brake, agricultural machinery and aviation devices. They are ideal for die springs or heavy-duty compression springs in high stress and heavy-duty working environments. It has the characteristics of small installation volume, good elasticity, large rigidity, high precision, rectangular material, color separation spraying (plating) on the surface, and beautiful appearance.

### 敏硕模具弹簧目前标准化产品主要参照：

The standardized products of MASCOT die spring mainly refer to the followings:

#### 日标 JIS (6 种色彩：银色、黄色、蓝色、红色、绿色、茶色)

JIS (7 colors: silver, yellow, blue, red, green, Tan)



#### 美标 US (4 种色彩：蓝色、红色、金色、绿色)

US (4 colors: blue, red, gold and green)



#### 国际标准 ISO (4 种色彩：绿色、蓝色、红色、黄色)

ISO (4 colors: green, blue, red, yellow)



**模具弹簧**  
**DIE SPRING**

**产品服务**  
**PRODUCT SERVICE**



JIS 日标



JIS 日标



INCH 美标



INCH 美标



ISO 国际标准



ISO 国际标准



## 产品服务 PRODUCT SERVICE

## 碟形弹簧 DISC SPRING

敏硕采用欧美的钢材生产各类标准和非标的减震碟形弹簧、防松碟形弹簧垫圈、盘簧、碟形垫圈、碟形弹簧、膜片弹簧、开槽型碟形弹簧、V型碟形弹簧、弹簧垫圈、贝勒维尔弹簧垫圈 (Belleville washer)。从原材料源头上已经保证了产品的优质性，再加上我们独特的热处理工艺，使我们生产的各类减震弹簧都能达到 200 万次以上的疲劳寿命。

按用途分类：高温碟簧（最高耐 1000 摄氏度）、低温碟簧（最低抗零下 200 摄氏度）、常温碟簧；法兰预警碟簧、阀门预警碟簧、无磁预紧碟簧、缓冲拉伸碟簧、震动防松碟簧、液压用碟簧、风力发电碟簧、特种设备碟簧等。）

按标准分类：DIN2093 碟形弹簧、DIN9250 防松垫圈、DIN6796 碟形垫圈、美标 20813 高扭矩碟形垫圈、美标 693F 碟形垫圈碟簧。常用材料有：SAE6150、SAE9254、50CrV4、60Si2CrA、CK55、CK67、CK70、CK75、17/7Ph、SUS301、SUS304、INCONEL718、INCONEL750 和各种防腐、耐高（低）温不锈钢材料。

表面处理：发蓝、发黑、磷化、电镀、电泳和喷塑、达克罗、焦美特。

外径范围：3mm-900mm

厚度范围：0.08mm-60mm

MASCOT use European and American steel to produce all kinds of standard and non-standard damping disc springs, locking disc spring washer, disc spring, disc washer, disc spring, diaphragm spring, slotted disc spring, V disc spring, spring washer and Belleville washer. The high quality of the products has been guaranteed from the source of raw materials. With our unique heat treatment process, the fatigue life of all kinds of shock absorption springs can reach more than 2 million times.

Classification by purpose: high temperature disc spring (maximum resistance to 1000 °C), low temperature disc spring (200 °C below minimum resistance), normal temperature disc spring; flange warning disc spring, valve warning disc spring, magnetic free pre tightening disc spring, buffer tensile disc spring, vibration and anti loose disc spring, hydraulic disc spring, wind power dish spring, special equipment disc spring, etc.)

According to the standard classification: din2093 disc spring, din9250 lock washer, din6796 disc washer, American Standard 20813 high torque disc washer, American Standard 693f disc washer disc spring.

Commonly used materials are: SAE6150, SAE9254, 50CRV4, 60SI2CRA, CK55, CK67, CK70, CK75, 17 / 7PH, SUS301, SUS304, INCONEL718, INCONEL750 and various anti-corrosion and high (low) temperature resistant stainless steel materials.

Surface treatment: bluing, blackening, phosphating, electroplating, electrophoresis and plastic spraying, Dacromet, jiaomeite.

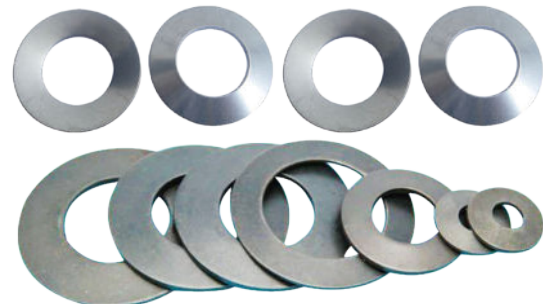
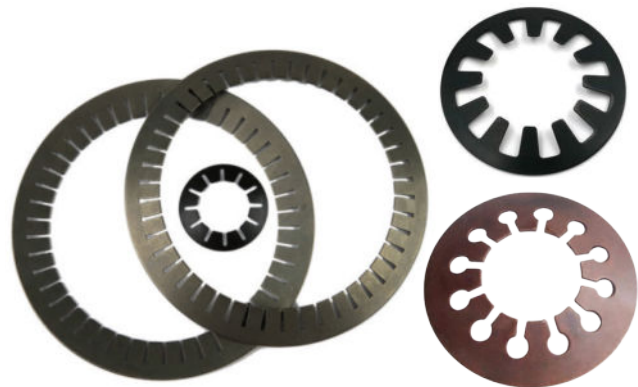
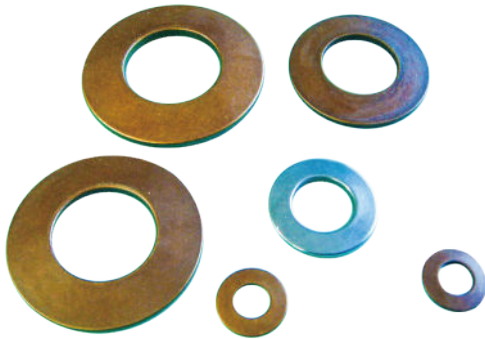
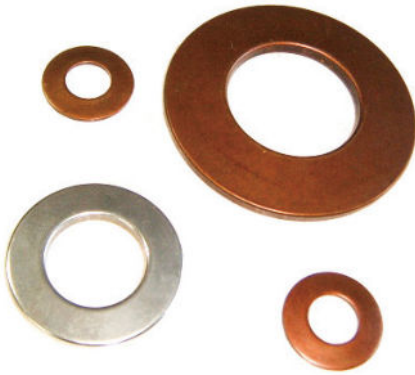
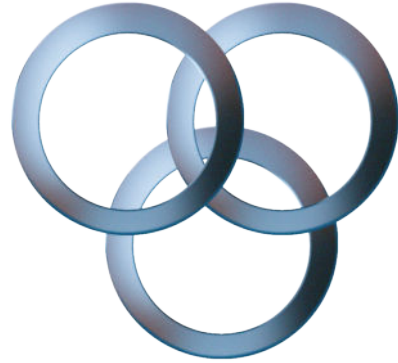
Outer diameter range: Φ 3mm-900mm

Thickness range: 0.08mm-60mm



碟形弹簧  
DISC SPRING

产品服务  
PRODUCT SERVICE



**气弹簧：** 又称支撑杆、调角器、气压棒、阻尼器、气杆、气动杆、气弹簧、气压杆等。敏硕现有产品可以提供所有种类的气弹簧，包括自由型气弹簧、自锁型气弹簧、随意停气弹簧、阻尼、座椅用气弹簧、牵引式气弹簧(拉式气弹簧)等，公司具有形式,安装距离及使用气弹簧所支撑物的重量及支撑位置即可。自主研发能力,能够满足用户的各种需求,客户只要提供联约产品广泛应用在汽车、机械、医疗、家具、建筑、冷柜冷等行业。

Gas spring: also known as support rod, angle adjuster, air pressure rod, damper, air rod, pneumatic rod, gas spring, air pressure rod, etc. Minshuo's existing products can provide all types of gas springs, including free type gas springs, self-locking gas springs, free stop gas springs, damping, seat gas springs, traction gas springs (pull type gas springs), etc. The company has the form, installation distance, weight and support position of the gas springs used. Our independent research and development capabilities can meet various needs of our customers. As long as we provide connected products, they can be widely used in industries such as automotive, machinery, medical, furniture, construction, and refrigeration.

载荷范围：4N-5000N

行程范围：7mm-1100mm

气缸 / 活塞杆直径范围：3/6-22/45

最大疲劳寿命：200000 次

材质：普通碳钢以及不锈钢等

表面处理：渗碳、镀锌等

连接部件范围：客户标准或企业标准

Load range: 4n-5000n

Travel range: 7mm-1100mm

Cylinder / piston rod diameter range: 3 / 6-22 / 45

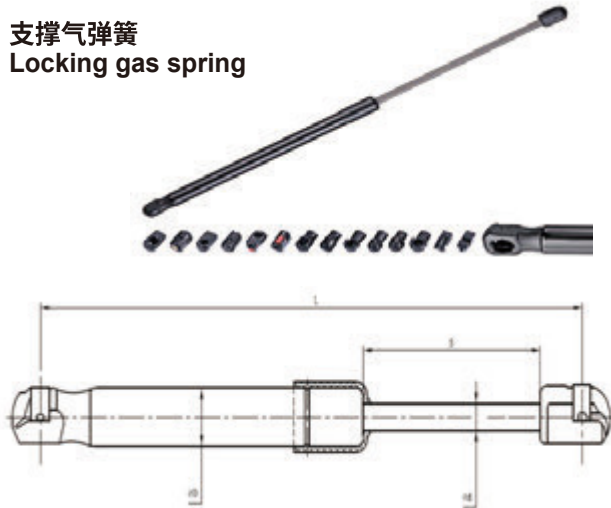
Maximum fatigue life: 200000 times

Material: ordinary carbon steel and stainless steel, etc

Surface treatment: carburizing, galvanizing, etc

Scope of connecting parts: customer standard or enterprise standard

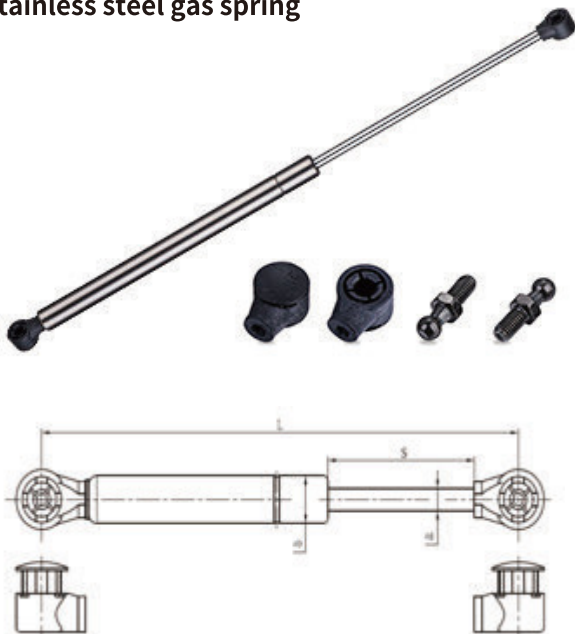


**支撑气弹簧**  
**Locking gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
4	12	95-450	20-150	30-100
6	15	95-650	20-250	50-400
8	18	95-800	30-350	50-750
9	18	95-800	30-350	50-950
10	22	150-1200	50-550	100-1200
10	23	150-1200	50-550	100-1200
12.4	22	150-1200	50-550	100-1350
12	27	150-1500	50-700	100-1500
14	28	150-1750	50-850	200-2500

**机械气弹簧**  
**Mechanical gas spring**


d (mm)	D (mm)	L (mm)	D (mm)	F1 (N)
10	22	250-1200	50-550	100-1200
14	28	150-1750	50-850	200-2500

**不锈钢气弹簧**  
**Stainless steel gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
6	15	95-600	20-250	50-400
8	18	95-800	30-350	50-750
10	22	150-1200	50-550	100-1200
14	28	150-1750	50-850	200-2500

**护套气弹簧**  
**Protection gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
6	15	95-600	20-250	50-400
8	18	95-800	30-350	50-750
9	18	95-800	30-350	50-950
10	22	150-1200	50-550	100-1200
14	28	150-1750	50-850	200-2500

尾门气弹簧  
Tailgate gas spring



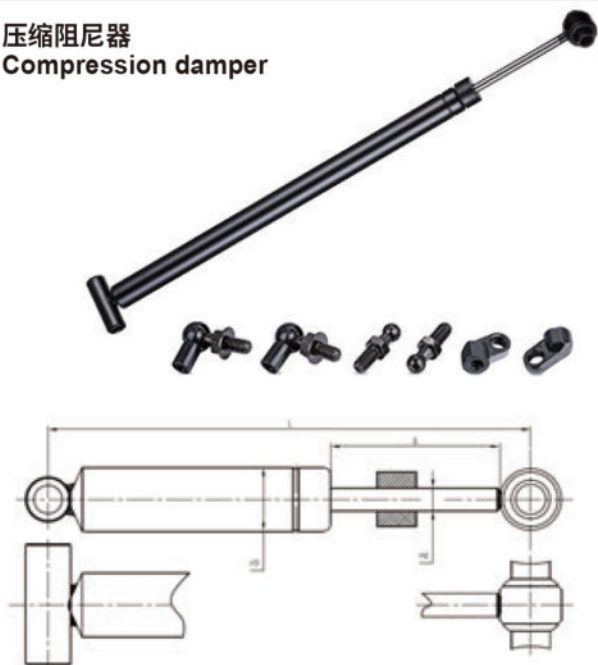
d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
6	15	95-600	20-250	50-400
8	18	95-800	30-350	50-750
9	18	95-800	30-350	50-950
10	22	150-1200	50-550	100-1200
10	23	150-1200	50-550	100-1200
12.4	22	150-1200	50-550	100-1350
12	27	150-1500	50-700	100-1500
14	28	150-1750	50-850	200-2500

双缸气弹簧  
Double-cylinder lock gas spring



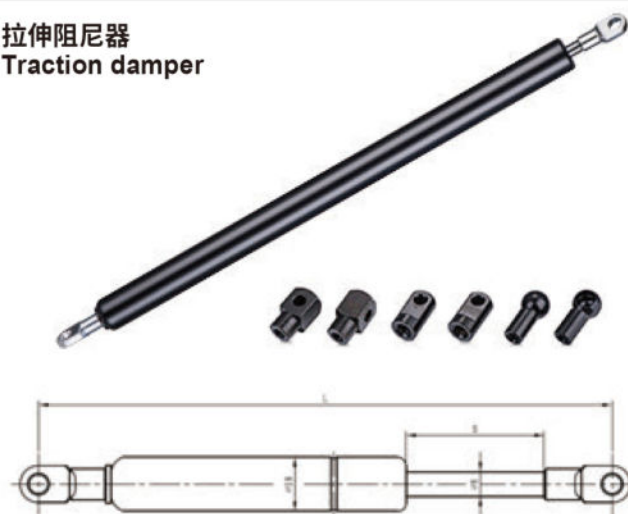
d (mm)	D (mm)	L (mm)	D (mm)	F1 (N)
10	27	150-1200	25-550	100-800

压缩阻尼器  
Compression damper

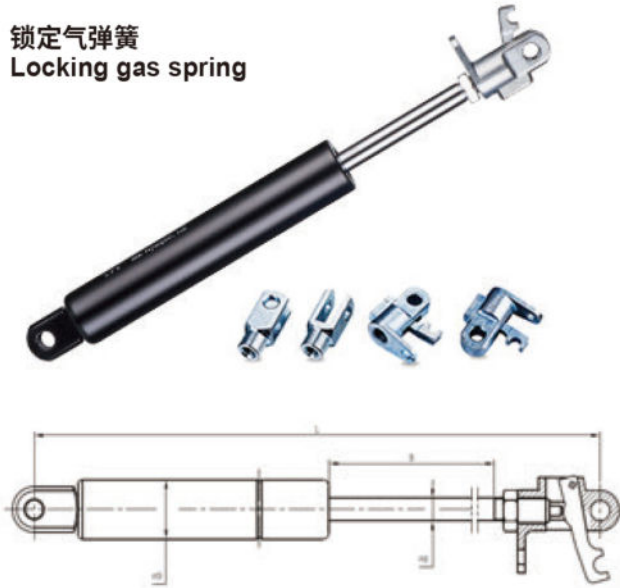


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
6	15	95-500	20-230	根据延伸 速度测试 标准
8	18	95-700	30-300	
8	24	95-700	30-300	
10	22	95-1200	50-550	
10	24	95-1200	50-550	
14	28	95-1200	50-550	

拉伸阻尼器  
Traction damper



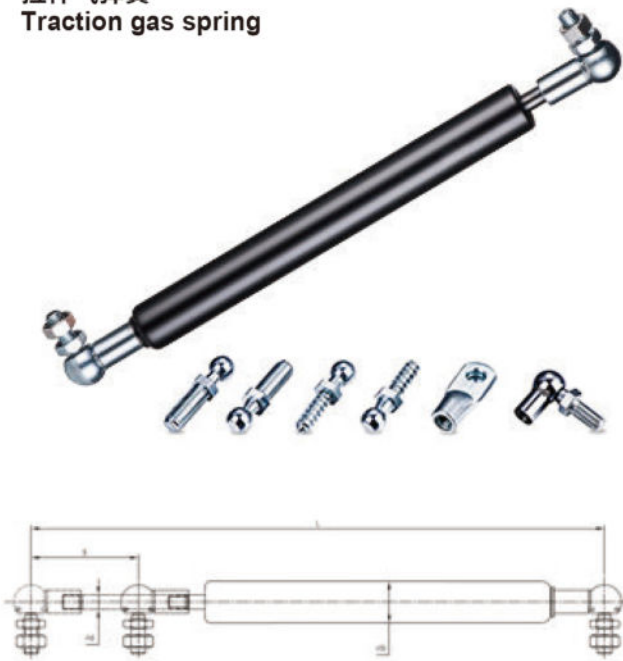
d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
6	15	95-500	20-230	根据延伸 速度测试 标准
8	18	95-700	30-300	
8	24	95-700	30-300	
10	22	95-1200	50-550	
10	24	95-1200	50-550	
14	28	95-1200	50-550	

**锁定气弹簧**  
**Locking gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
10	22	150-1000	25-500	80-1000
10	26	150-1000	25-500	100-1000
10	27	150-1000	25-500	100-1000
10	28	150-1000	25-500	100-1000

**后开启锁定气弹簧**  
**Back-lockable gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
10	22	150-1000	25-500	80-1000
10	26	150-1000	25-500	100-1000
10	27	150-1000	25-500	100-1000
10	28	150-1000	25-500	100-1000

**拉伸气弹簧**  
**Traction gas spring**


d (mm)	D (mm)	L (mm)	S (mm)	F1 (N)
8	18	150-500	50-250	30-100
8	22	150-600	50-250	100-450
10	28	200-1350	50-600	150-1150

**拉槽气弹簧**  
**Pull groove/Dynamic gas spring**

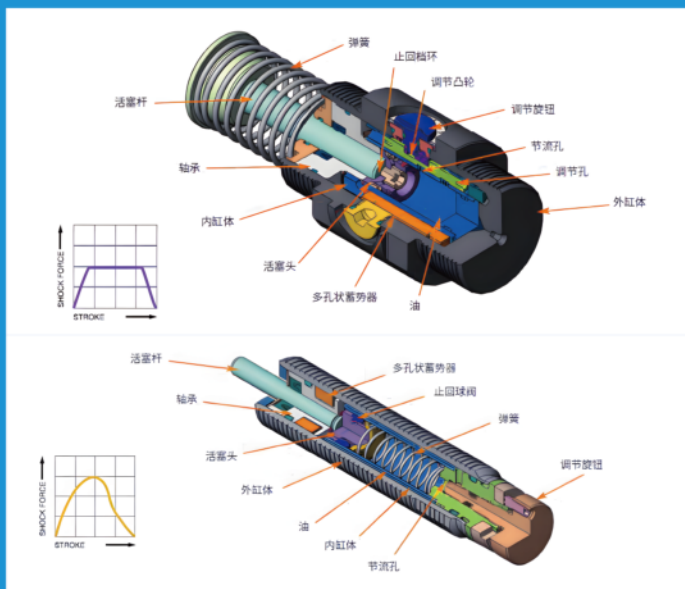

d (mm)	D (mm)	L (mm)	D (mm)	F1 (N)
6	15	95-600	20-250	50-400
8	18	95-800	30-350	50-750
9	18	95-800	30-350	50-950
10	22	150-1200	50-550	100-1200
12.4	22	150-1200	50-550	100-1350
12	27	150-1500	50-700	100-1500
14	28	150-1750	50-850	200-2500

## 可调型液压缓冲器 ADJUSTABLE HYDRAULIC BUFFER

## 产品服务 PRODUCT SERVICE

可调型缓冲器具备动态调节能力，能够针对不同的冲击速度、冲击力及工况需求进行灵活调整。通过旋转调节旋钮，即可快速改变阻尼力大小，确保在各种应用条件下均能实现最优缓冲效果。该装置适用于吸收精密机械部件的有害冲击能量，可有效应对气缸驱动、电机驱动、惯性负载等多种动力系统产生的冲击，提升设备运行的稳定性和可靠性。

Adjustable buffers have dynamic adjustment capabilities and can be flexibly adjusted for different impact speeds, impact forces, and operating conditions. By rotating the adjustment knob, the damping force can be quickly changed to ensure optimal buffering effect under various application conditions. This device is suitable for absorbing harmful impact energy from precision mechanical components, and can effectively cope with impacts generated by various power systems such as cylinder drive, motor drive, and inertial loads, improving the stability and reliability of equipment operation.



### 性能特点 Performance characteristics

- 可调阻尼设计——支持精准调节并锁定阻尼值，确保最佳缓冲效果。
- 高效能量吸收——优化内孔结构，提供优异的减速性能与能量转化效率。
- 低反弹特性——行业领先的缓冲控制技术，显著降低回弹冲击。
- 增强散热设计——外螺纹缸体结构，增大散热面积，提升安装灵活性。
- 宽温域适应——专用密封装置和特种液体油的结合，可以提高标准的工作温度范围：(-10℃~80℃)扩大到(-40℃~100℃)
- 持久耐用——符合ISO认证标准，高精度加工，镀镍防腐处理，延长使用寿命。
- 广泛适用性——可调式设计适配多种工况，涵盖低速至高冲击应用需求。
- 定制化选项——提供304、316、316L全不锈钢材质版本，满足严苛环境需求。

·Adjustable damping design - supports precise adjustment and locking of damping values to ensure optimal buffering effect  
 ·Efficient energy absorption - optimizing the internal pore structure to provide excellent deceleration performance and energy conversion efficiency  
 ·Low rebound characteristic - industry-leading buffering control technology significantly reduces rebound impact.  
 ·Enhance heat dissipation design - external threaded cylinder structure, increase heat dissipation area, and improve installation flexibility  
 ·Wide temperature range adaptation - the combination of specialized sealing devices and special liquid oils can increase the standard operating temperature range from (-10 °C~80 °C) to (-40 °C~100 °C)  
 ·Durable and long-lasting - compliant with ISO certification standards, high-precision processing, nickel plating and anti-corrosion treatment, extending service life  
 ·Wide applicability - the adjustable design is suitable for various working conditions, covering the requirements of low-speed to high impact applications  
 ·Customized options - available in 304, 316, 316L all stainless steel versions to meet harsh environmental requirements.

# 产品服务

## PRODUCT SERVICE

# 蛇形弹簧

## SERPENTINE SPRING

蛇形弹簧(Serpentine Spring)又名联轴器弹簧。在机械传动系统中,这种弹簧担负着传递扭矩和缓冲的作用,该结构通常由两根带有若干个齿的半轴和一个或数个联轴器弹簧组成联轴器弹簧的扭矩范围在26N·M~800000N·M之间,两半轴允许相对径向位移量在0.5mm~3mm之间,轴向位移量在4mm~20mm之间,角位移量是1°~5'。蛇形弹簧以组(1圈为1组,有1片为1组;2片为1组,4片为1组和6片为1组等)供货。使用材质主要是50CrVA;60Si2MnA;60Si2CrVA;SAE6150;SAE9254。蛇形弹簧最常见的产品型号为JS系列蛇形弹簧,主要适用于JS系列蛇形弹簧联轴器(JB/T8869-2000)。

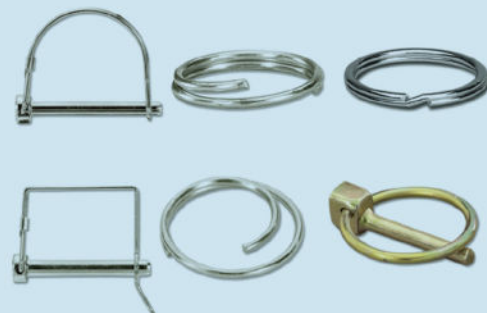
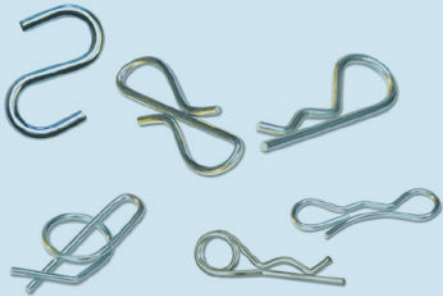
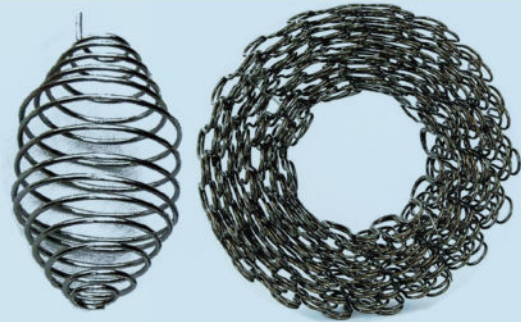
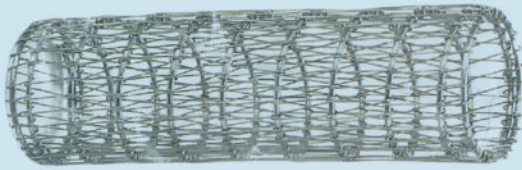
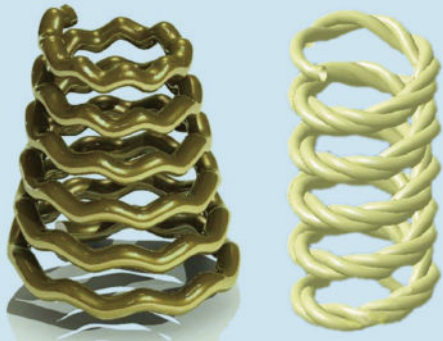
Serpentine spring is also known as coupling spring. In the mechanical transmission system, this spring is responsible for transmitting torque and buffering. The structure is usually composed of two half shafts with several teeth and one or more coupling springs. The torque range of the coupling spring is 26n · m ~ 800000n · m, the allowable relative radial displacement of the two half shafts is 0.5mm ~ 3mm, the axial displacement is 4mm ~ 20mm, and the angular displacement is 1 ° 15 '. Serpentine springs are supplied in groups (one coil is one group, one piece is one group; two pieces are one group, four pieces are one group and six pieces are one group, etc.). The main material used is 50CrVA; 60Si2MnA; 60Si2CrVA; SAE6150; Sae9254. The most common product model of serpentine spring is JS series serpentine spring, which is mainly applicable to JS series serpentine spring coupling (JB / t8869-2000)

规格	公称 扭矩 Tn(N·M)	上厚* 下厚	宽*高度*外径 (MM)
JS101	45	2.4*1.0	6*45*62
JS102	140	2.6*1.4	6*45*73
JS103	224	2.1*1.2	6*45*75
JS104	400	3.0*1.8	6*55*90
JS105	630	4.0*2.3	8*58*105
JS106	900	3.8*2.0	10*64*121
JS107	1800	4.5*2.6	10*90*142
JS108	3150	4.8*2.6	12*90*159
JS109	5600	5.3*2.7	15*110*188
JS110	8000	5.3*2.7	15*110*206
JS111	12500	7.0*4.0	19*135*235
JS112	18000	6.6*4.4	19*135*279
JS113	25000	6.6*4.4	19*135*311
JS114	35500	6.9*4.1	25*165*369
JS115	50000	6.9*4.1	25*165*407
JS116	63000	8.0*5.0	30*200*450
JS117	90000	9.0*6.0	30*200*492
JS118	125000	9.0*6.0	35*210*560
JS119	160000	9.0*6.0	35*220*608
JS120	224000	10.7*7.3	40*260*703
JS121	315000	11.0*7.0	40*300*700
JS122	400000		
JS123	500000	12*8.6	48*940*236
JS124	630000		
JS125	800000		
JS126		12.6*16.0	54*533*1350



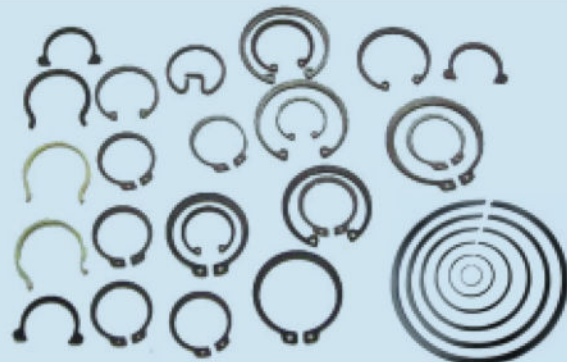
异形弹簧/板弹簧  
WIRE FORMING/LEAF SPRING

产品服务  
PRODUCT SERVICE



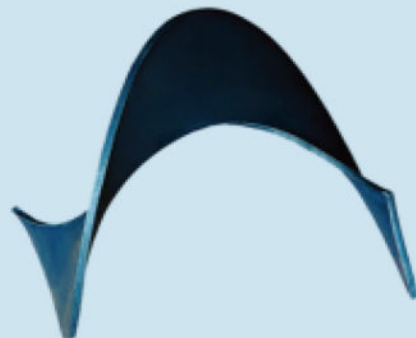
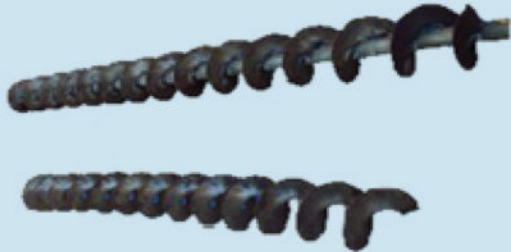
**产品服务**  
PRODUCT SERVICE

**卡箍/弹性垫圈**  
HOSE CLAMP/SPRING RING



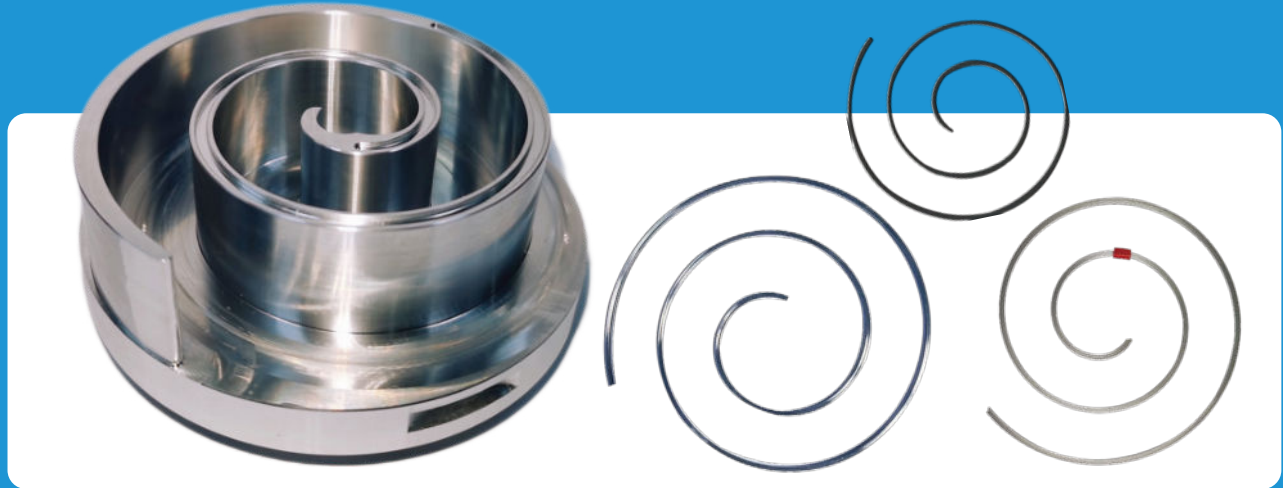
螺旋叶片弹簧  
SPIRAL LEAF BLADE SPRING

产品服务  
PRODUCT SERVICE



## 压缩机密封件 COMPRESSOR SEAL

## 产品服务 PRODUCT SERVICE



涡轮式压缩机在运行过程中，动、静涡盘的密封条靠轴向背压被压紧而使得动、静涡盘紧密接触，并在冷冻油或者空气的帮助下实现良好的密封效果，从而使得内泄露几乎不存在：当密封条端平面被损后，可以沿轴向方向自动补偿，以保证动涡盘端面 and 静涡盘底面始终贴紧，而且空压机工作时间越长，这些贴紧的相对运动面的配合越好，密封效果也越好。

During the operation of a turbo compressor, the sealing strips of the dynamic and static vortices are tightly pressed by axial back pressure, resulting in a tight contact between the dynamic and static vortices. With the help of refrigeration oil or air, a good sealing effect is achieved, making internal leakage almost non-existent. When the flat surface of the sealing strip is damaged, it can automatically compensate along the axial direction to ensure that the end face of the dynamic vortex and the bottom face of the static vortex are always in close contact. Moreover, the longer the working time of the air compressor, the better the fit between these closely moving surfaces, and the better the sealing effect.



## 产品服务 PRODUCT SERVICE

## 双螺旋弹簧 DOUBLE HELIX SPRING



双螺旋弹簧又称双股螺旋弹簧，是由两根弹簧钢丝缠绕成螺旋形的弹性元件，是一种具有创新结构和卓越性能的弹簧，广泛应用于各种机械设备中。其增强的灵活性、优化的能量存储和释放能力、精密工程设计以及广泛的应用领域，使其成为许多应用的首选。

Double coil spring, also known as double stranded coil spring, is an elastic element formed by winding two spring steel wires into a spiral shape. It is an innovative structure and excellent performance spring widely used in various mechanical equipment. Its enhanced flexibility, optimized energy storage and release capabilities, precision engineering design, and wide range of application areas make it the preferred choice for many applications.

### 性能优势

### PERFORMANCE ADVANTAGE

**高负荷缓冲减振：**两根钢丝的协同受力结构，使其弹性模量更高，能承受比同规格单螺旋弹簧更大的轴向载荷，有效吸收机械运行中的冲击振动。

**High load buffering and vibration reduction:** The collaborative force structure of two steel wires results in a higher elastic modulus, which can withstand greater axial loads than single coil springs of the same specification, effectively absorbing impact vibrations during mechanical operation.

**精准复位与力值控制：**弹性形变均匀且回弹性稳定，能在设定的行程内实现精准复位，适用于需要严格控制力值输出和位移精度的机械结构。

**Precise reset and force control:** The elastic deformation is uniform and the rebound is stable, which can achieve precise reset within the set stroke. It is suitable for mechanical structures that require strict control of force output and displacement accuracy.

**抗扭转与防变形：**双螺旋结构自带抗扭转特性，在承受轴向压力的同时，可抵御一定的侧向扭力，避免弹簧在复杂工况下出现弯曲、偏斜或塑性变形。

**Anti torsion and anti deformation:** The double helix structure has its own anti torsion characteristics, which can withstand axial pressure while resisting a certain amount of lateral torsion, avoiding bending, deflection or plastic deformation of the spring under complex working conditions.

**耐疲劳与长寿命：**应力分布更均匀，减少了单根钢丝的局部应力集中，大幅提升抗疲劳性能，可在高频次往复运动工况下长期稳定工作。

**Fatigue resistance and longevity:** The stress distribution is more uniform, reducing local stress concentration on individual steel wires and significantly enhancing fatigue resistance. It can operate stably for a long time under high-frequency reciprocating motion conditions.



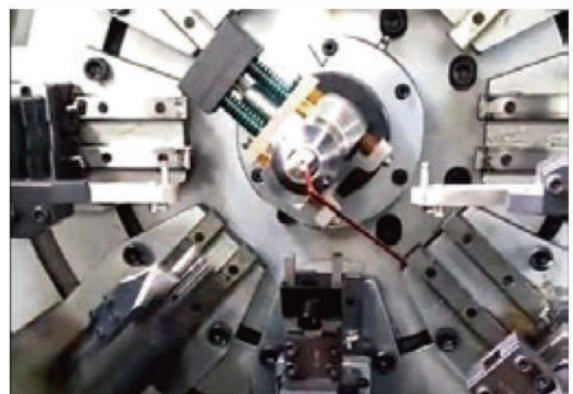
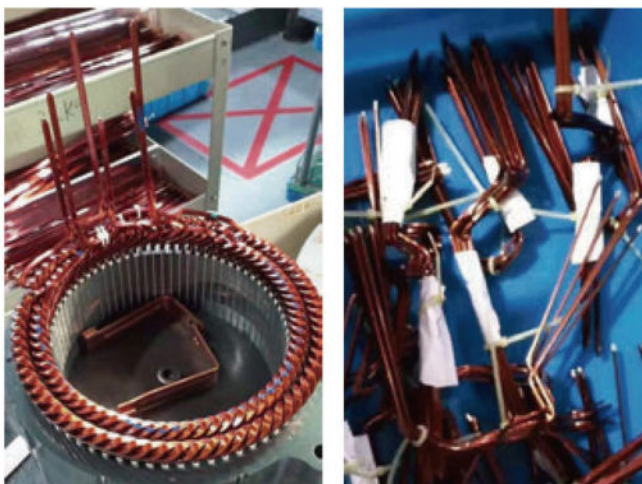
## 新能源汽车核心部位-电机铜线成型

Core part of new energy vehicle - motor copper wire forming



敏硕科技是一家具有研发、生产、销售综合实力于一体的汽车零部件专业制造商。公司创始人及研发技术骨干拥有欧美同行业丰富的管理及领先的技术经验。敏硕科技与时俱进,生产技术不断创新,能根据客户的需求定制新能源汽车电机铜线成型产品,并能大批量生产。

Mascot Technology is a professional manufacturer of automotive parts with comprehensive capabilities in research and development, production, and sales. The founder and R&D technical backbone of the company have rich management and leading technical experience in the same industry in Europe and America. Minshuo Technology keeps pace with the times and constantly innovates in production technology. It can customize copper wire forming products for new energy vehicle motors according to customer needs and produce them in large quantities.



## 新能源汽车铜铝排 Copper aluminum busbar for new energy vehicles

新能源汽车用铜铝排是电动车动力系统中用于导电和散热的重要材料。铜铝排的优良导电性和散热性，使其成为电池组与电动机之间的理想连接材料。铜铝排的应用不仅提高了电动汽车的性能，还在一定程度上降低了制造成本。

Copper aluminum bars for new energy vehicles are important materials used for conductivity and heat dissipation in electric vehicle power systems. The excellent conductivity and heat dissipation of copper aluminum bars make them an ideal connecting material between battery packs and electric motors. The application of copper aluminum bars not only improves the performance of electric vehicles, but also reduces manufacturing costs to a certain extent.



## 折叠弹簧 FOLDING SPRING

## 产品服务 PRODUCT SERVICE

折叠弹簧是一类采用折叠式结构设计的弹性元件，通过将弹簧材料进行弯折、层叠或嵌套成型，以实现特殊的弹力输出、空间适配或缓冲减振效果，也常被称为层叠弹簧或折叠式弹性件。

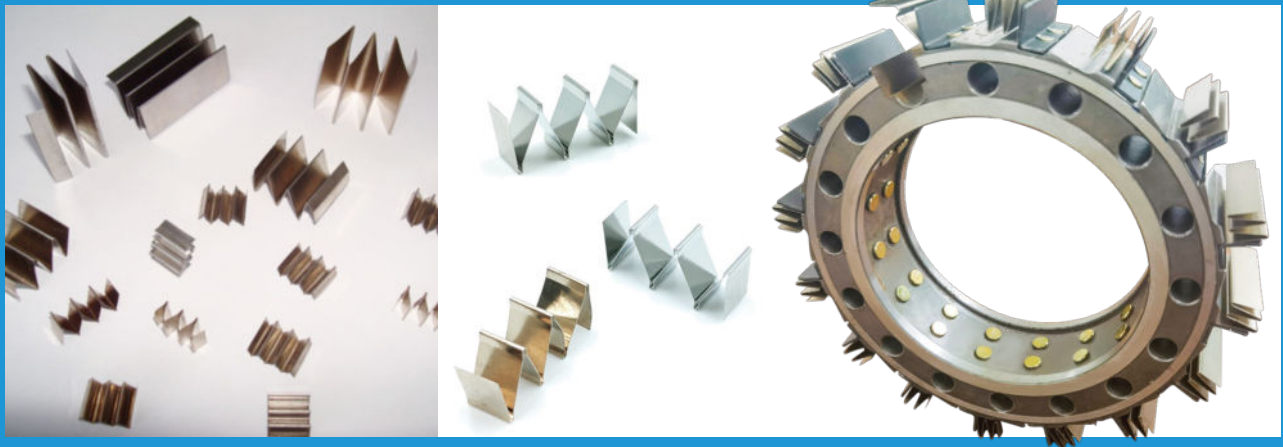
折叠弹簧主要应用于汽车离合器，附设在离合器扭转减振器上，起着缓和冲击的作用。

材质：不锈钢、碳素钢、合金钢、其他金属材质-铜、铝、乐器金属弦线。

Folding spring is a type of elastic element designed with a folding structure, which is formed by bending, stacking or nesting the spring material to achieve special elastic output, space adaptation or buffering and vibration reduction effects. It is also commonly referred to as laminated spring or folding elastic component.

Folding springs are mainly used in car clutches, attached to the clutch torsion damper, playing a role in mitigating impact.

Materials: stainless steel, carbon steel, alloy steel, other metal materials - copper, aluminum, instrument metal strings.



### 核心特点

### CORE FEATURES

#### 空间利用率高

折叠结构可以在较小的安装空间内，实现较大的变形量和弹力行程，适合对安装尺寸有严格限制的场景（如汽车离合器、小型精密设备）。

#### High space utilization rate

The folding structure can achieve a large amount of deformation and elastic stroke in a small installation space, suitable for scenarios with strict limitations on installation size (such as car clutches, small precision equipment).

#### 弹力特性可控

通过调整折叠层数、弯折角度和材料厚度，能够精准匹配不同的载荷需求，可实现线性或非线性的弹力输出曲线。

#### Controllable elasticity characteristics

By adjusting the folding layers, bending angles, and material thickness, it is possible to accurately match different load requirements and achieve linear or nonlinear elastic output curves.

#### 抗疲劳性能强

采用弹簧钢、不锈钢等高强度材料制成，折叠处经过特殊工艺处理，可承受高频次的伸缩或扭转循环，不易出现断裂或变形失效。

#### Strong anti fatigue performance

Made of high-strength materials such as spring steel and stainless steel, with special processing at the folding point, it can withstand high-frequency stretching or twisting cycles and is not prone to fracture or deformation failure.

## 产品服务 PRODUCT SERVICE

## 弹簧钢丝软轴及总承 SPRING STEEL SHAFT AND PRINCIPAL

### 敏硕弹簧钢丝软轴芯及各种机械钢丝软轴总成

材质：70号、65锰高碳弹簧钢丝；304、316不锈钢丝 结构：由2-12层素丝，每层3-10根高强钢丝组成。

捻向：S（左旋），Z（右旋）。

颜色：金黄色，黑色，白色。

适用范围：汽车，摩托车，运动车，速率计，计数器，转数表，电动工具割草机及各种机械转动。

性能：平滑，柔韧，高弹性，低振动。

Mascot spring steel wire flexible shaft core and various mechanical steel wire flexible shaft assemblies;

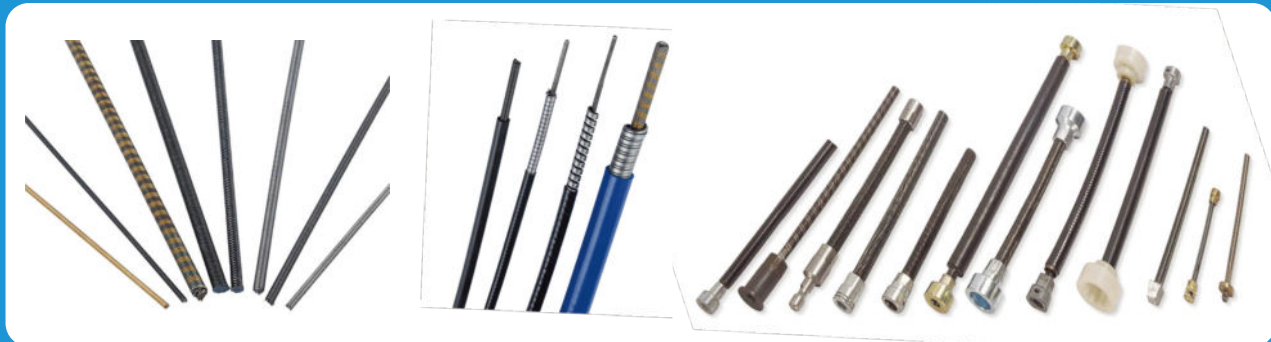
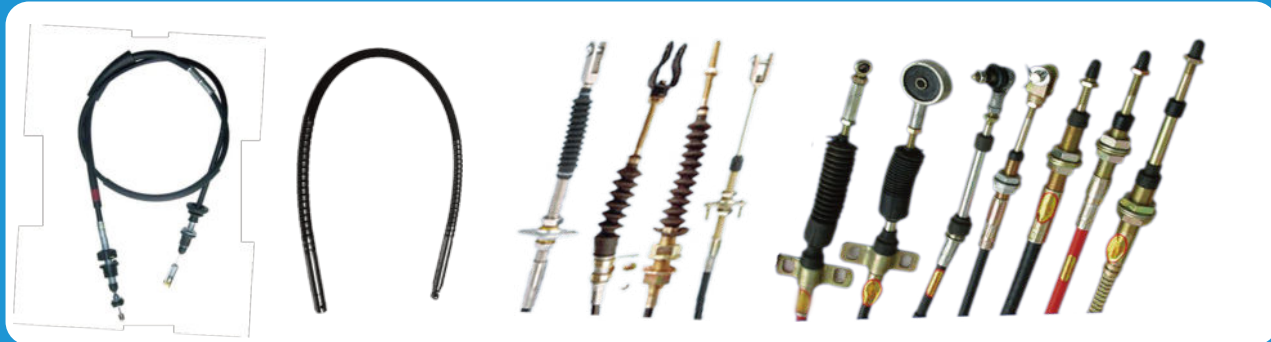
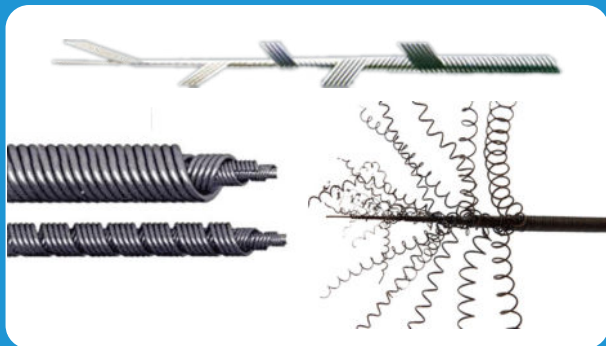
Material: 70, 65 manganese high carbon spring steel wire; 304, 316 stainless steel wire

Structure: it is composed of 2-12 layers of plain wire and 3-10 high-strength steel wires in each layer.

Twist direction: s (left rotation), Z (right rotation). Color: golden yellow, black, white.

Scope of application: automobile, motorcycle, sports car, speedometer, counter, tachometer, electric tools, lawn mower and various Mechanical rotation.

Performance: smooth, flexible, high elasticity, low vibration.



## 精密冲压件 PRECISION STAMPING

## 产品服务 PRODUCT SERVICE

精密冲压件是一种通过精密冲压工艺制造的金属零部件，广泛应用于汽车零件，机械设备，电力配件，生活用品、航空航天等诸多领域。

Precision stamping parts are metal components manufactured through precision stamping technology, widely used in various fields such as automotive parts, mechanical equipment, power accessories, daily necessities, aerospace, etc.

**使用材料：**冷轧低碳钢（SPCC、SPCD、SPCE、DC01/DC03/DC04）；不锈钢（304、301、316L）；铜合金（紫铜T2、黄铜H62/H65、磷青铜C5191/C5210、铍铜、铜镍硅合金）；铝合金（1060、5052、6061）；高强钢（DP、MS、QP系列）；特种精密材料（无磁不锈钢、低应力材料、半导体级洁净材料等）。

Materials used: Cold rolled low carbon steel (SPCC, SPCD, SPCE, DC01/DC03/DC04); Stainless steel (304, 301, 316L); Copper alloys (purple copper T2, brass H62/H65, phosphor bronze C5191/C5210, beryllium copper, copper nickel silicon alloy); Aluminum alloy (1060, 5052, 6061); High strength steel (DP, MS, QP series); Special precision materials (non-magnetic stainless steel, low stress materials, semiconductor grade clean materials, etc.).



## 产品服务 PRODUCT SERVICE

## 3C及半导体等精密冲压件 PRECISION STAMPING PARTS FOR 3C AND SEMICONDUCTOR INDUSTRIES

弹簧片是通过精密冲压成型的弹性金属零件，用于导电、接触、压紧、缓冲与卡扣，是 3C 电子、汽车功率模块中必不可少的精密冲压件。

Spring plates are elastic metal parts formed by precision stamping, used for conductivity, contact, compression, buffering, and clamping. They are essential precision stamped parts in 3C electronics and automotive power modules.

### ① 导电接触

Conductive contact

· 电池接触弹片 · 充电弹片 · 信号弹片 · 功率模块内部信号端子弹片  
· Battery contact shrapnel, charging shrapnel, signal shrapnel, power module internal signal terminal shrapnel

### ② 压紧固定

Tighten and fix

· 压住芯片、DBC 基板 · 压住连接器 · 压住屏蔽罩 · 散热压紧弹片  
· Pressing down on chips, DBC substrates, connectors, shielding covers, and heat dissipation compression springs

### ③ 弹性缓冲 & 防松

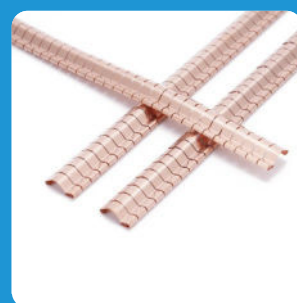
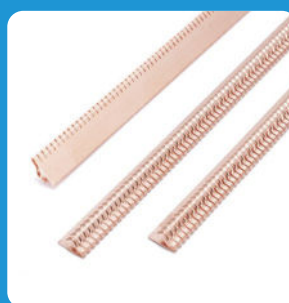
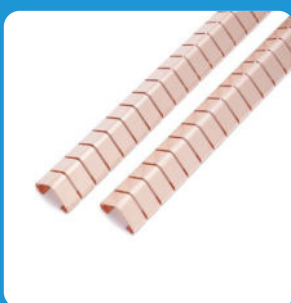
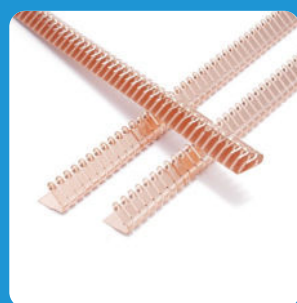
Elastic buffering&anti loosening

· 汽车电控内部防震 · 功率模块内部防振动松动 · PCB 板固定弹片  
· Automotive electronic control internal shock resistance, power module internal anti vibration loosening, PCB board fixing spring plate

### ④ 开关 / 触发

Switch/trigger

· 按键弹片 · 微动开关弹片 · 连接器自锁弹片  
· Button spring clip, micro switch spring clip, connector self-locking spring clip

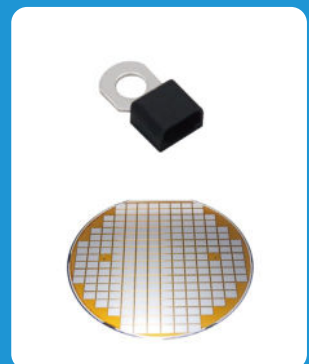
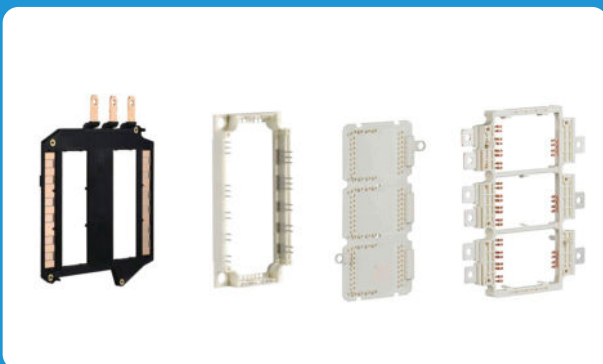
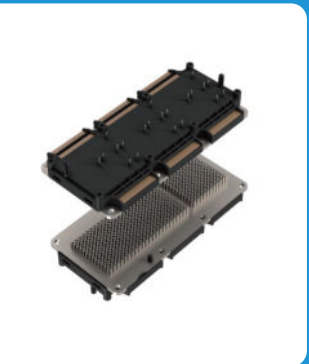
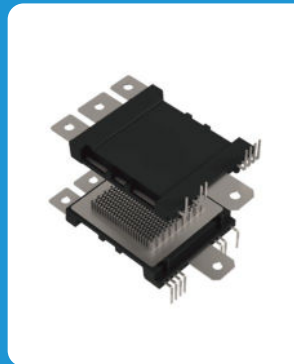
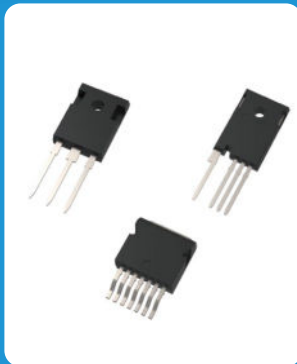
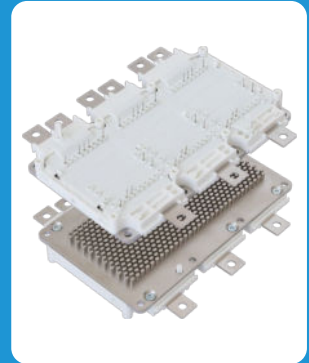
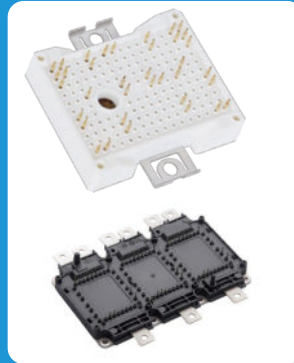
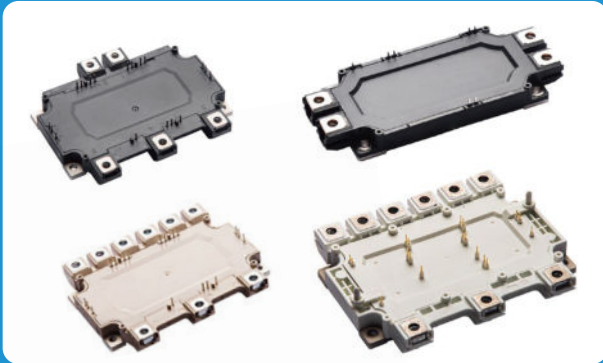
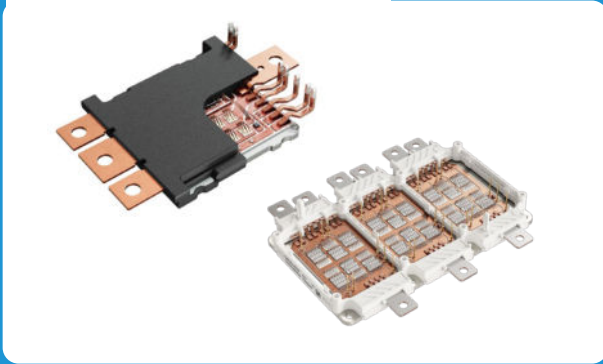


# 3C及半导体等精密冲压件

PRECISION STAMPING PARTS FOR 3C AND SEMICONDUCTOR INDUSTRIES

# 产品服务

PRODUCT SERVICE



产品服务  
PRODUCT SERVICE

精密拉伸件  
PRECISION STRETCH PARTS



**精密加工件**  
PRECISION MACHINED PARTS

**产品服务**  
PRODUCT SERVICE



# 产品服务

PRODUCT SERVICE

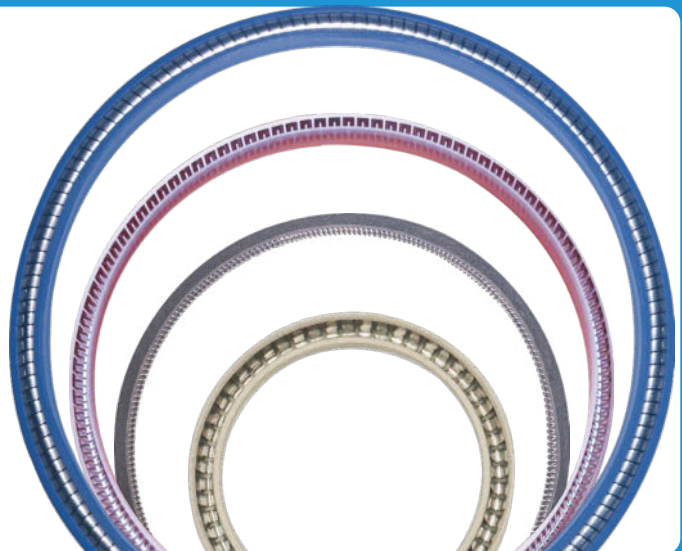
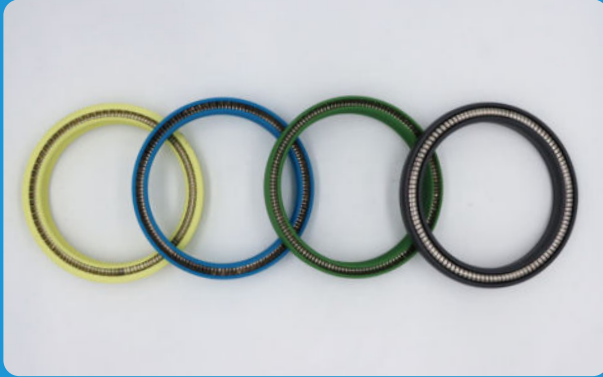
# 制冷配件

REFRIGERATION PARTS



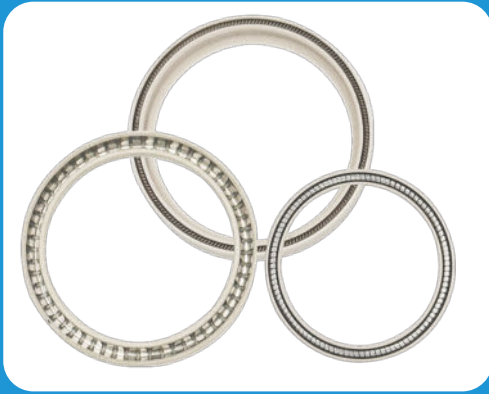
弹簧蓄能密封圈 (泛塞封)  
SPRING ENERGIZED SEAL/VARISEAL

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产品服务  
PRODUCT SERVICE

PEEK制品  
PEEK PRODUCT

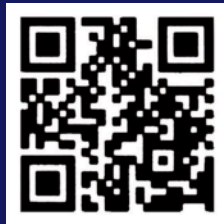




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Website



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