

CUSTOM-ENGINEERED PARTS AND SPECIAL ORDERS

If you are looking for a special spring, spring washer, assembly or engineered component and cannot find it in this catalog, let us know, and we will design it for you, to your specifications. Our unique technical capabilities and resources allow us to provide custom-engineered parts and components to a multitude of industries and applications, ranging from aerospace to medical devices to food service.

Your Special Order is very important to us: when you deal with Henry Spring, you can be certain that we will assist you with high quality custom-engineered parts, from design right into production – at the right price and to your delivery requirements.

Give us a call at +86-0511-8803-6999, and let our Expertise work for you.

Below is a snapshot of our various capabilities:

Compression Springs

- Resists applied push forces
- Various materials available
- Cylindrical, Conical, and Barrel shaped
- Wire diameter: .004" to 1.5"
- Typical applications include transpiration and medical equipment

Extension Springs

- Resists applied pull forces
- Various materials available
- Various end types available
- Wire diameter: .004" to .625"
- Typical applications include dental furniture, attic door hatches, and playground equipment

Torsion Springs

- Resists applied torque
- Various materials available
- Single or double wound
- Open or closed wound
- Various end types available
- Wire diameter: .005" to .625"
- Typical applications include truck doors, ATM machines and printers

Die Springs

- Resists applied compression forces
- Limited types of materials available
- Hole diameter: .375" to 2.00"
- Wire diameter: .039" to .450"
- Typical applications include stamping and molding dies

Constant Force Springs

- Used as counterbalance
- Inside diameter mounted on drum – self contained outer diameter
- Typical applications include window shades and display racks

Power Springs

- Resists applied torque
- Contained by arbor and case
- Coils contact each other
- Typical applications include motors and retractor mechanisms

Spiral Torsion Springs

- Resists applied torque
- Self contained
- Coils do not contact each other
- Typical applications include motors and timing mechanisms

Garter Springs

- Garter springs are extension spring with ends connected
- Exerts Radial Forces
- Outside coil diameter: .039" to .250"
- Wire diameter: .006" to .034"
- Primary application is oil seals

Belleville Washers

- High forces in small deflections
- Also known as conical or disc washers
- Linear and non-linear force/deflection curves
- Made to fit specified rod and/or hole fit
- Assembled in parallel or series to modify force and deflection
- Typical applications include stamping dies and clutches

Curved Washers

- Exert light thrust loads
- Made to fit specified rod and/or hole fit
- Often used to absorb axial end play

Wave Washers

- Exert moderate thrust loads
- Made to fit specified rod and/or hole fit
- Often used for bearing preload

Wire Forms

- Non-traditional force applications
- Various materials available
- Wire diameter: .004" to .625"
- Typical applications include nozzles and clamps

Stampings

- Per customer specification
- Various materials available
- Material thickness: .010" to .375"

Materials:

- Carbon steels: Music wire, hard drawn, oil tempered
- Pre plated music wire: Tin and Zinc
- Alloy steels: Chrome silicon – commercial and valve quality
- Stainless Steels: 302, 316, 17-7
- Exotic: Inconel® 600, 718, and X750, Hastelloy®, Beryllium Copper, titanium, etc.....
- Round, rectangular, and square wire available in select sizes

Special Processing (see more information on page 282 - 285):

- Passivation
- Zinc, cadmium, nickel, tin plating and black oxide
- Dacromet®, Dacroseal, Geomet®, Dip and Spin.
- Enamel, epoxy and temperature-indicator paint
- Shot peening
- Liquid penetrant and magnetic particle inspection
- Special packaging available (including tacky board)

定制的工程零件和特殊订购

如果您正在寻找特殊弹簧、弹簧垫圈、装备或工程元件。但是您在这本目录当中没有找到，请您联系我们。我们将竭力为您量身设计符合您规格的产品。我们独特的技术能力和资源能确保我们为您提供量身定制的零件和元件，以满足各行各业的各种应用需求，范围包括航空、医疗设备到食品服务。

您的特殊订购对我们非常重要：当您与我们 HENRY 进行生意往来时，我们将按照您的发货要求，以最优惠的价格从设计到生产为您提供优质的量身定制的零件。

请与我们联系，我们的联系电话是：**+86-0511-8803-6999**

以下是我们各种产品的一个简单描述。

压缩弹簧

- 能承受施加的各种拉力
- 提供各种材料
- 圆柱体、锥形和圆筒形
- 线径：0.004” 至1.5”
- 通用（包括交通运输和医疗设备）

拉伸弹簧

- 能承受施加的各种拉力
- 提供各种材料
- 提供各种终端型号
- 线径：0.004” 至0.625”
- 通用（包括牙具、阁楼门开口、运动场设备）

扭转式弹簧

- 能承受施加的扭矩
- 提供各种材料
- 单或双切口
- 开或关切口
- 提供各种终端型号
- 线径：0.004” 至0.625”
- 通用（包括卡车门、自动取款机、打印机）

模具弹簧

- 能承受施加的压缩外力
- 提供的材料种类有限
- 孔径：0.375” 至2.00”
- 线径：0.039” 至0.450”
- 通用（包括冲压模具和成型模具）

恒力式弹簧

- 常用作平衡块
- 内径安装在鼓—内含外径
- 通用（包括百叶窗和陈列架）

动力弹簧

- 能够承受施加的扭矩
- 包含辊轴和箱体
- 每个弹簧都由线圈连接
- 通用（包括电机和牵开器装置）

螺旋扭转弹簧

- 能够承受施加的扭矩
- 自配套
- 线圈没有相互连接
- 通用（包括电机和计时装置）

联动松紧带式弹簧

- 联动松紧带式拉伸弹簧，弹簧尾部连接着
- 施加辐射状的外力
- 外线圈直径：0.039” 至0.025”
- 线径：0.006” 至0.034”
- 主要应用于油密封

贝勒维尔弹簧垫圈

- 变形量很小的情况下会产生很大的外力
- 也叫锥形或圆盘垫圈
- 线性和非线性力/变形曲线
- 生产规格符合规定杆和/或孔尺寸
- 并行或串行安装以便调节力和变形
- 通用（包括冲压模具和离合器）

曲线状弹簧垫圈

- 施加轻微的推力载荷
- 生产规格符合规定杆和/或孔尺寸
- 通常用于消减轴向间隙

波状弹簧垫圈

- 施加中等程度推力负荷
- 生产规格符合规定杆和/或孔尺寸
- 通常用于轴承预载

圆形截面耐纶丝

- 应用于非常规外力
- 提供各种材料
- 线径：0.004” 至0.625”
- 通用（包括管口和夹子）

冲压

- 按照客户规格要求
- 提供各种材料
- 材料厚度：0.010” 至0.375”

材料：

- 碳素钢：乐器金属弦线、硬拉线、油热处理
- 预镀乐器金属弦线：锡和锌
- 合金钢：商业用铬硅和优质真空管
- 不锈钢：302, 316, 17-7
- 式样奇特的：Inconel 600, 718 和X750, Hastelloy Beryllium 铜、钛等等
- 提供各种尺寸的圆形、长方形和方形线，供您选择。

特殊工艺（更多信息请参考282 - 285页）：

- 钝化
- 镀锌、镉、镍和锡以及黑氧化处理
- Dacromet®, Dacroseal, Geomet®, 浸渍和旋转
- 彩饰、环氧和温度指示器
- 喷丸硬化
- 液体渗透检验法和磁粉探伤
- 提供特殊包装（包括黏性板）