The Preferred Global Supplier of Spring Solutions for Medical & Healthcare Devices

Flat & Round Wire Steel Springs for Medical and Healthcare Devices Produced with Precision & Consistency

Bring your concept to life with custom flat and round wire steel spring solutions by Vulcan Spring. We will partner with your engineers, contract manufacturers, and designers to prototype, test, and produce significant volumes of custom springs for complex medical and healthcare devices. Certified to international quality standards and verified through extensive testing and measurement, we have the capability, experience, and bandwidth to custom-build your spring designs.

How Vulcan Springs Accommodate Medical Devices

- Made with the precision required for optimal function of your product
- Provide strong force or torque output, even in small spaces
- Can accommodate high-volume production
- Can assist with development to ensure optimal design and function prior to manufacturin
- Can provide linear force or rotational torque as a custom or stock product
- Can provide a rigorous testing protocol

Most Common Applications

- Surgical Staplers
- Virus Testing Equipment
- Laparoscopic Devices
- Drug Infusers & Delivery Systems
- Table & Bed Lift Mechanisms
- MRI & X-Ray Machines
- Surgical Robots
**Constant Force Spring**
Conforce® springs offer high force output with a small space requirement. These springs provide long linear reach with minimal force buildup and store power indefinitely when extended.

**Constant Torque Spring**
Contorque® springs can provide high torque with small space requirements and can also be designed to produce positive or negative gradient output torque.

**Power Springs**
Power springs create a compact power source, in which the torque increases throughout the total winding of the spring. Power springs are pre-stressed to produce a flatter torque gradient and can be used to increase the number of turns in a case of a given diameter.

**Mechanical Reel**
Mechanical reels provide reliable power for applications needing counterbalancing, retrieving or returning, especially in applications requiring long deflection.

**Twin Springs**
Twin Springs minimize space, maximize life and can meet exacting force requirements to ensure consistent, dependable force to a device.

**Wire & Strip Forms, Torsion Springs**
The uniqueness of wire form parts make it critical for you to partner with our experts to ensure an optimal design. Your creativity and our technology combined can create the ideal solution for mass-produced wire forms. We have various machines capable of forming virtually any shape to suit your unique application and performance needs.

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**About Vulcan Spring**
Vulcan Spring is the preferred global supplier of high-volume spring solutions, headquartered in Telford, Pennsylvania. With innovative engineering, machinery and tooling, we can deliver spring and assembly solutions for even the most challenging applications. For industrial or POP displays and beyond, we’re equipped for the quality and timely production of millions of springs, all while promising to make your experience from concept to production as easy as possible.

Contact us with questions or about a custom need. Our responsive and helpful team is standing by.

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