Beyond the Spring™

Assembly Capabilities & Value-Added Services
Suppliers are often thought of as product vendors with a warehouse full of stock materials for engineers or designers to choose from. Many suppliers, however, are also manufacturers with state-of-the-art operations and in-house engineers. Suppliers like these bring a superior level of insight to the early-stage development process with deep application knowledge, technical expertise, and industry experience.

**Vulcan Spring is the preferred global supplier of mid- to high-volume spring solutions. But did you know we also have comprehensive assembly production and other value-added services?**

Discover the capabilities that allow us to go Beyond the Spring™ for you, easing your burden of managing multiple product developers, design engineers, contract manufacturers, and suppliers.
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Assembly Capabilities

Whether the product involves simply putting a spring into a housing or a more complicated assembly with a variety of components, we have the capability to get the job done and streamline your purchasing process. Depending on the quantity required, we can utilize secondary labor or fully automated equipment. Spot welding, sonic welding, and riveting are just a few of the processes where we can provide expertise. Special packaging is an additional service available for a wide range of applications.

We help you answer these questions and more:

- Can the part be manufactured using the same material as other parts?
- How does the part in question move in relation to other moving parts?
- Can the parts be combined without the need for any special process or tooling?
- If combined with other parts, how does that impact ease of possible disassembly?
- If combined with other parts, how much easier is the overall assembly going to be?

Sourcing & Supply Chain Management

For subassembly components beyond spring production, such as molded parts and fasteners, our experienced team works with component suppliers to aid supply chain management and provide a seamless and efficient sourcing process.
Assembly Applications

We serve a wide range of industries and applications, including aerospace and defense, automotive and transportation, industrial, firearms, medical device and healthcare, Point-of-Purchase (POP) and retail displays, windows and window shades, and fire dampers.

Here are a few examples of where our assemblies have been utilized.

- Solar Panel & Antenna Hinges on Spacecraft
- Tray, Cover, & Cupholder Assemblies in Automotive Center Consoles
- Various Medical Devices
- Backplate Assemblies for Brush Springs
- Controls on Airplanes
- Adjustment Mechanisms in Hard Hats
- Load Counterbalancing for Window Shade Applications
- Cable Retractor Assemblies
Tool & Die Capabilities

Our experienced staff of engineers and toolmakers can design and build most anything that is necessary for a production solution. Whether it’s a simple forming tool or a multi-progression die, we have all the required equipment for the job in-house. In this area, we also produce precision components in limited production quantities. Our wire EDM equipment, CNC mills, grinders, and lathes are all capable of manufacturing tooling to the strictest tolerances.

Rapid Prototyping

Whether your spring design requires plastic or steel components, our experts can deliver working prototypes. Our CNC machining centers can produce components from steel or other alloys, and our 3D printing machine can make plastic components from ABS. If the design requires a spring, we can make it and assemble the entire concept.

State-of-the-Art EDM Machines

Our state-of-the-art wire EDM machines are designed for precision cutting of steel. The machines are capable of producing geometric accuracies of +/-0.00008” and surface finishes down to 30 micro-inches in tool steel and 20 micro-inches in carbide on work pieces up to 14” x 10” x 8” H. Our team can create part programs from an existing CAD or 3D file and deliver your finished parts quickly.

Consult with Vulcan Spring on prototyping and manufacturing your product to determine:

• How it looks from the buyer’s perspective
• How it functions from the user’s perspective
• How easy or difficult it will be to produce
• How much it will cost to mass-produce
Customer Support

We take customer support very seriously with fast, professional responsiveness and lead times that are sure to please. We recognize that it’s our job to keep your team and project moving forward. Each member of our staff is always looking “beyond the spring” to its end application to provide insight and advice that ensures your order will be produced to exceed your expectations. With us, you’ll never have to question our commitment to you and your project’s success.

- Extreme Responsiveness
- Fast & Honest Lead Times
- Experts of Our Craft
- In-House Capabilities
- Concept to Production
- Easy Customer Experience

Your Upcoming Project

We understand the critical nature our parts play in the overall function of your products. That’s why we’re committed to being a true partner in delivering vendor-managed and just-in-time inventory agreements. As you assess upcoming projects, know that Vulcan Spring provides more than just stock products – we offer strategic services that improve the design, prototyping, manufacturing, subassembly, and production phases of your entire project.
About Vulcan Spring

Vulcan Spring is the preferred global supplier of medium- and high-volume spring solutions, headquartered in Telford, Pennsylvania. With innovative machinery, tooling and engineering, we can deliver a spring solution for even the most challenging applications. For industrial or POP displays and beyond, we’re equipped for quality, industry-leading spring production and assembly, all while promising to make your experience from concept to delivery 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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