



INVICTA SPRING & WIRE
COMPONENTS

PRODUCT CATALOGUE



ABOUT

As a team we focus on getting the job done right, first time, every time.

We understand that every successful company is based on exemplary customer service and you are only as good as your last job. Our drive to stay ahead of the rest is never ending.

We are a solution based company, not just product based!

We look at ourselves as a customer service business that manufactures; not as a manufacturer who provides some customer service.

We are constantly investing in the latest technology and equipment so we can supply cutting edge products and stay on the leading edge of innovation.

We work on continuing to improve our business to meet customers' needs.

Using the latest machinery decreases set-up times, increases production rates, improves quality and can remove secondary operations. This means we can offer great quality parts that are on-time at a globally competitive cost. We use state-of-the-art machinery through each step of the process, including primary production equipment (CNC coilers and wire formers), secondary equipment (table grinders and in-line ovens), tool making equipment (CNC mills), and inspection equipment (digital video measuring machines and force testers).

We hire employees that care about their work and our customers. We use apprenticeships to pass knowledge from our seasoned employees to our newer ones. Our employees take continuing education classes to expand and sharpen their skills. We have developed a culture where employees are comfortable to offer ideas to improve, to work together as a team, and to share their knowledge with each other.

Using best practices helps us to improve quality, reduce waiting time within and between processes and reduce costs.

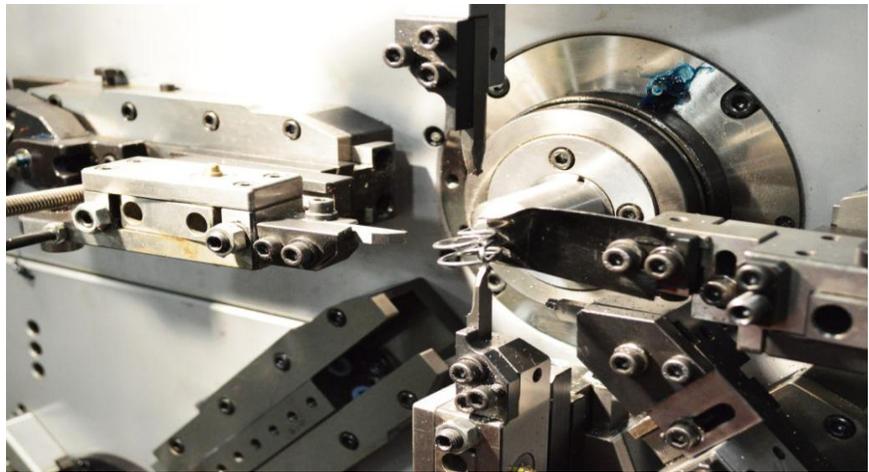
Our quality policy is to continuously improve our processes to make purchasing custom springs and wire forms as easy and fast as possible for the customer. Our customers want fast quotes, quick order acknowledgments, speedy answers to their questions and delivery date changes in addition to good parts delivered on time. We look at improving the entire purchasing experience for our customers.

APPLICATION'S

<p>AUTOMOBILE</p>	
<p>HOME & OFFICE</p>	
<p>RECREATION</p>	
<p>AGRICULTURE</p>	
<p>INDUSTRIAL</p>	
<p>SPECIALTY PRODUCTS</p>	

OUR QUALITY & TECHNOLOGY

INVICTA has proudly raised the bar in our industry with high-quality, INDIA-made precision products at mass-market prices. We are continually investing in the most up-to-the-minute technology, and are adept at engineering it ourselves when needed. Our training programs and commitment to quality are envied by industry competitors, as are our raw material relationships and lead times



Being certified, we strive to deliver defect-free product **100% of the time**. Our Quality Assurance Department has decades of experience in all aspects of product quality, including: statistical process controls (SPC), advanced product quality planning (APQP), failure analysis (FA), start-up processes and design implementations.

INVICTA has a full, in-house team for sub-assembly requirements and secondary work. We offer in-house grinding and color code capabilities along with other outside services, including shot-peening and plating to a wide range of industry specifications.

We inspect, test, re-inspect and test again. Nothing gets past our remarkably stringent quality assurance department. Our professional, experienced, and meticulously trained staff treat every spring as a reflection of how we conduct business. From small runs to tens of millions per year, the quality of our products remains the same..

PRODUCTS RANGE

WIRE FORMS



A wire form is essentially a shape formed from wire. Wire forms range from the most simple such as a straight piece of wire to a highly complex 3D shape. Common examples are bungy cord end hooks, sinker wires and “R-clips” but the range is only limited by one’s imagination.

COMPRESSION SPRINGS



The Compression Spring is designed to operate with a compression load, so the spring gets shorter as the load is applied to it. We can help you design your spring to suit its application and decide your required end type, from having the wind open to having the end accurately closed and ground on our CNC grinding machine, we can fulfill your needs. Our up to date design technology can design the compression spring to suit your requirements

TENSION/EXTENSION SPRINGS



Tension/extension spring – this spring is designed to operate with a tension load, so the spring stretches as the load is applied to it. Some of the examples of the range that we currently supply are garage door springs, horse float tailgate springs through to very small delicate computer tray return springs. We can assist you by advising on what type of spring and end formation will best suit your requirements , from single/double/triple loops to extended hooks with the opening best suited to your needs. What you require we can make.

TORSION SPRINGS



A torsion spring is a spring that works by torsion or twisting; that is, a flexible elastic object that stores mechanical energy when it is twisted. When it is twisted, it exerts a force (torque) in the opposite direction, proportional to the amount (angle) it is twisted. There are two types. A torsion bar is a straight bar of metal that is subjected to twisting (shear stress) about its axis by torque applied at its ends. The other type, a helical torsion spring, is a metal rod or wire in the shape of a coil that is subjected to twisting about the axis of the coil by sideways forces (bending movements) applied to its ends, twisting the coil tighter. This terminology can be confusing because in a helical torsion spring the forces acting on the wire are actually bending stresses, not torsional or shear stresses. Some of the examples of the range that we currently supply are large horse float tailgate torsion springs through to very small over head lighting retaining springs

TRAMPOLINE SPRING



(3" SPRING) The 3" Rebounder Spring is approximately 3" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 15 coils and an outside diameter of about 7/8". The total overall length of the spring from the outside of each hook is approximately 3 1/2".

(5 1/2" SPRING) The 5 1/2" trampoline spring is approximately 5 1/2" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 30 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 5 3/4".

(6 1/4" SPRING) The 6 1/4" trampoline spring is approximately 6 1/4" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 35 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 6 3/4".

(7" SPRING) The 7" trampoline spring is approximately 7" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 43 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 7 1/2".

(8" SPRING) The 8" trampoline spring is approximately 8" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 51 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 8 1/2".

(9" SPRING) The 9" trampoline spring is approximately 9" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 59 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 9 1/2".

(10" SPRING) The 10" competition trampoline spring is approximately 10" long from the inside of the hook on one end to the inside of the hook on the other end. It has about 67 coils and an outside diameter of about 1". The total overall length of the spring from the outside of each hook is approximately 10 1/2".

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