



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.

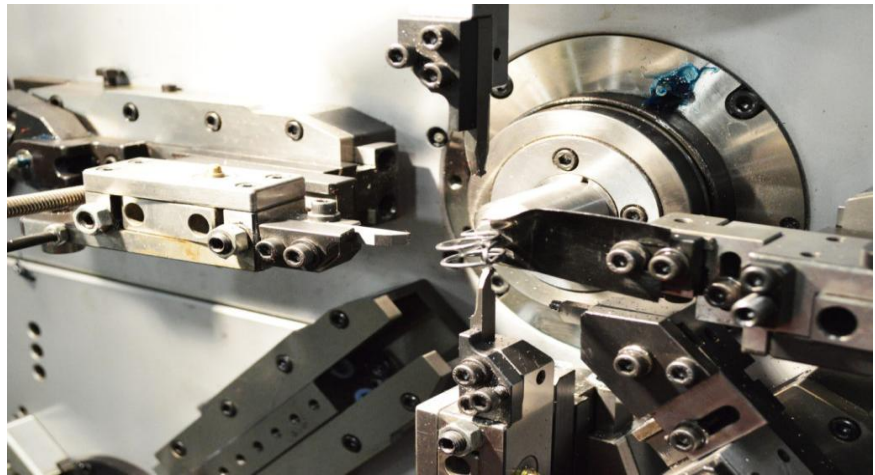
Our quality policy is to continuously improve our processes to make purchasing custom springs and wire forms as easy and fast as possible for the customer. Our customers want fast quotes, quick order acknowledgments, speedy answers to their questions and delivery date changes in addition to good parts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

TRUCK & TRAILER PARTS

 <p>Fifth Wheel Brake Shoe Repair Kit</p>	 <p>Brake Shoe Repair Kit York</p>	 <p>Brake Shoe Repair Kit ROR</p>
 <p>ROR Brake Shoe Repair Kit</p>	 <p>ROR Brake Shoe Repair Kit</p>	 <p>BPW Brake Shoe Repair Kit</p>
 <p>York Brake Shoe Repair Kit</p>	 <p>Mercedes Brake Shoe Repair Kit</p>	 <p>Mercedes Brake Shoe Repair Kit</p>
 <p>BPW Brake Shoe Repair Kit 40 No. KIT</p>	 <p>BPW Brake Shoe Repair Kit</p>	 <p>ROR AXL-132 Brake Shoe Repair Kit</p>
 <p>BPW Cam Shaft Kit</p>	 <p>ROR AXL-122 Brake Shoe Repair Kit</p>	 <p>Mercedes Brake Shoe Repair Kit</p>



Mercedes Marcopoli Side Rod End



Rubber Boot 44mm



Rubber Boot 50mm



BPW Washer 5mm



BPW Axle Nut 12,14,16 Ton



BPW Trust Corn 12,14,16 Ton All Type



BPW Jesser Ring 12 & 16 TON



U Clip



Air Cleaner Clip



U Clip



BPW CAM Shaft Bush 36 whole



BPW Brake Shoe Pin



BPW Nylon Ring 10 TON



BPW Nylon Ring 14 TON



BPW Nylon Ring 16 TON



Coil Spring



Valve Spring Set



Valve Spring Kit



Industrial Spring All Type Auto Parts



Industrial Spring All Type Auto Torsion



Flat Wire Spring



Hardware Door Closer Spring All Size



Hardware Door Closer Stopper Spring



Hardware Parts



Hardware Flat Wire Spring Lock



Door Closer Spring 4mm 2.6 Inner



Door Closer Spring 4mm 2.6 Inner



Stopper Spring Hardware



Double Wire Hose Clamps with Bolt SUS304

Size: 45-75mm

Double Wire Clamp Spring



Double Wire Clamp Spring



BPW Cam Shaft Kit



Mercedes Brake Kaliper Kit



Driver Cabin Suspension Kit



Axle 125/132 ROR Set



Brake Shoe Repair Kit Cabin



Axle Part Repair Kit



Mercedes Spring Pin Kit Rear



Mercedes Spring Pin Kit Front



ROR Roller All Type Brake



ROR Cam Shaft Kit



ROR Cam Shaft Kit



ROR Kit 117



ROR 126



Washer Kit



Volvo Kit



5mm Combine Finger



3.6 & 5mm Ten Spring



7mm Combine Finger



4.5 Combine Finger



5mm Combine Finger



6m Hanger Set



5mm Hanger



4.5mm & 7mm Combine Finger Set



6mm Ten Spring



All Type Combine Spring



Combine Spring Brake



2.6 & 3.6 Combine Finger



2.6 & 3.6 Combine Finger



Hanger & Finger Set



Agricultural Combine - Spring Working



Mercedes Spring Mounting



Centre Bearing 60mm



Driver Cabin



BPW BUSH 36x57x102



Spring Cushion 12 & 16 TON



Axle Part Repair Kit



Bharat Benz Torque Road Bush



Bharat Benz 88mm Bush



Bharat Benz 70mm Bush



Bharat Benz 74mm Bush



Bharat Benz 80mm



Bharat Benz 38mm Bush



Mercedes & BPW Hose Pipe



BPW All Type Suspension Bush



70mm Centre Bearing



Spring Flat Wire



Self Spring Garrai All Type Spring



Tractor Sheet Spring



Tractor Clutch Paddle Spring



Flat Wire 25mm to 55mm Tie Road Lock With Powder Coating



Link Bar 24mm Lock



1.8mm Ring 12mm to 35mm with Powder Coating & Zinc



All Type of Tie Road Spring



Tie Road Spring



Tie Road Taper Spring Suspension



TATA Set of 12, 15, 16, 21, 9 All Type Pressure Plate Spring



Doors Closer Spring



Tractor Combine Finger Spring



BPW 12 & 16 Brass Bushes



All Type Brass Bush BPW & Mercedes



BPW Brass Bush
Part No. 3353240050
Size : 48x40x42



BPW Brass Bush
Part No. 0311233080
Size : 40x36x60



Thrust Washer Differential Kit
Part No. : 3483530582



Part No. : 0311299020
BPW Bush 12 Ton
Size : 130x145x214



Part No. : 0311299040
BPW Bush 16 Ton
Size : 185x200x243



Part No. 335391006C
Mercedes Bush
Size : 40x30x9C



Part No. 3703220050
Size : 30x25x81
Mercedes Front Bush



Part No. 3043240050
Size : 30x36x90
Mercedes Rear Bush



Part No. 031099022C
Size : 42x46x72.5
BPW Cam Shaft Bush



Part No. 21204703
Size : 38x47.7x50
Cam Shaft Bush ROR Mentor



Part No. 21209990
Size : 43x48x50
Cam Shaft Bush ROR Mentor



Part No. CF100117
Size : 32x35x36.5
Anchor Pin Bush Freehour



Part No. 21016666
Size : 32x35x36.5
Mentor ROR Bush



Part No. 0311244220
Size : 42x46x77
Cam Shaft Bush BPW



Size : 30x34x42x21
Mercedes Brake Shoe Bush



Part No : ARJA-0199-0703
Fruehauf 420 MM
Brake Shoe Repair Kit



Part No : AEJB0003001
Cam Shaft Kit
Fruehauf



Part No : 0980100431
BPW Cam Shaft Kit
12 pc Kit



Part No : 0980100410
BPW Cam Shaft Kit
6pc Kit



Part No : 3604200441
Mercedes Cam Shaft Kit
24pc Kit



Part No : 0980102010
BPW Brake Shoe Repair Kit



Center Bolt All Size



PART NO. : SK 42158
BPW
FIFTH WHEEL LOCK RING



SK 10515
FIFTH WHEEL LOCK JOST



Part No. 0035000130
Brake S Lock



Part No. 09801020609
Brake Shoe Repair Kit



Stock Plate
Part No. 3464230157
Size Inner Dia 39/42
Outer Dia 60.2
Thickness 3mm



Stock Plate
Part No. 3464230057
Size Inner Dia 39/42
Outer Dia 76.2
Thickness 3mm



Size 38x48/52x22
CAM Shaft Bearing



Part No. 21204602
Cam Shaft Bearing
Size 38x48/52



Spring Slack Adjuster
05.397.26.03.0



SPRING SLACK ADJUSTER
05.397.26.02.0



BRAKE SHOE SPRING
05.397.34.10.0, 05.397.34.11.0



BRAKE SHOE SPRING
03.397.44.06.0



BRAKE SHOE SPRING REAR
346.993.0310



BRAKE SHOE SPRING FRONT
619.993.0610



BRAKE SHOE SPRING
05.397.58.03.0



BRAKE SHOE SPRING
05.397.46.03.0



05.397.46.03.0
BRAKE SHOE SPRING SCANIA



BRAKE SHOE SPRING
M-002874



BRAKE SHOE SPRING
03.397.33.06.0



BRAKE SHOE SPRING
03.397.33.07.0



SPRING SLACK ADJUSTER
05.397.26.05.0



SPRING SLACK ADJUSTER
21205194



BRAKE SHOE SPRING
21221224



3529931910
MERCEDES BENZ
ACLERATOR SPRING



3529931910
MERCEDES BENZ
ACLERATOR SPRING



Part No : 21006612
RETAINING SPRING



Part No : 3039930410
BRAKE SHOE SPRING



Part No : 3359930610
BRAKE SHOE SPRING



Part No : 3469930810
BPW Brake Shoe Repair Kit



120824
Brake Shoe Spring Scania



194592
Brake Shoe Vovio Spring Scania



1309465
Brake Shoe Spring Scania



81976100115
Brake S Lock



0323213020
LOCK PLATE BPW



0318802020
BPW HOOKED SPRING
C CLIP



0262018801
COTTER PIN BPW
SIZE 8X90



0331039020
JESSAR RING BPW 16 TON
SIZE 185X10X220



9 MM CABIN SPRING
BPW

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