



ECO-Rapid Prototyping

Global Customized Spring Expert

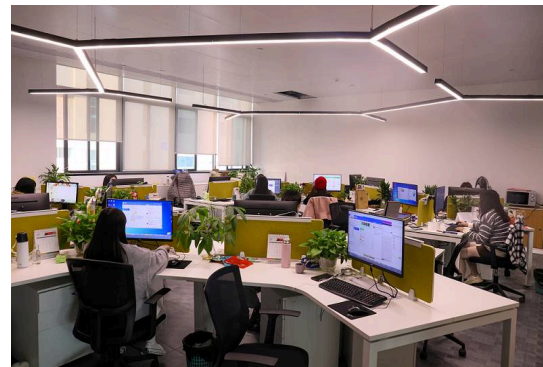
Company Profile
- Springs



Company Profile

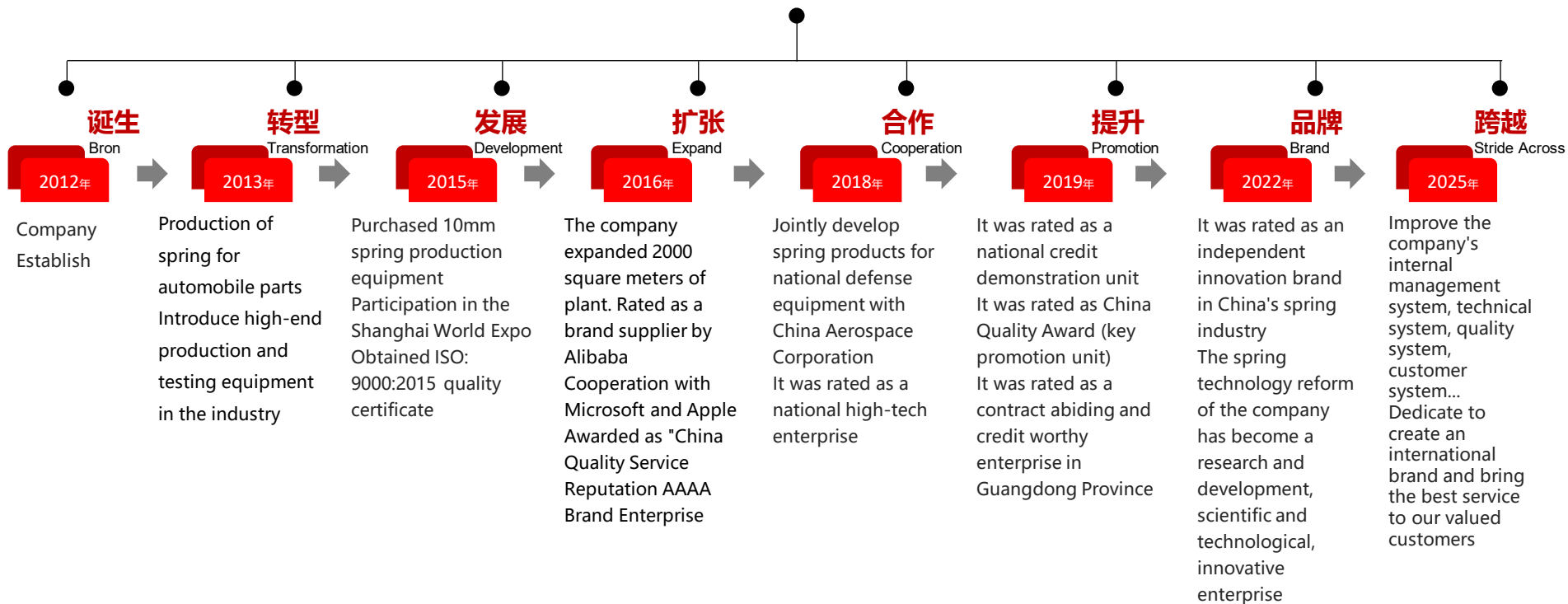
Eco – Rapid Prototyping

- ◆ Eco industrial company limited established since 2012;
- ◆ Manufacturing: Customizing various styles of springs, fastener and hardware stamping parts, the spring material wire diameter available from 0.02 to 25mm. (Compression spring, torsion spring, stretching spring, linear spring, automobile spring, antenna spring, battery spring, electrical appliances spring, electronic products spring.....)
- ◆ Quality Control: Has passed ISO9001:2015 quality system certification, complete testing instruments. Such as: Switzerland's image measuring instrument, CCD full detector, IM-6225 Japan image size measuring instrument, two element projector, torsion testing machine, Japan imported pressure tension testing machine, salt spray testing machine, life testing machine, etc.
- ◆ Application Range: Used in electronics, electrical appliances, automobiles, high-speed rail, subway, aviation, military, medical, toys, locks, stationery, baby carriage, bicycle, gifts, handicrafts, kitchen and bathroom, cameras, printers, office equipment, precision equipment, all kinds of transportation, etc.
- ◆ The company has more than 30 years of professional experience of senior engineers and senior technical team, a number of national patent technology, to a number of listed enterprises and aerospace, military to provide a number of spring solutions, to help customers in the same industry to enhance the core competitiveness, and then get more orders.





The history of the development of Eco - Rapid Prototyping





五金
彈簧

Precision Springs

Customizing various styles of springs, fastener and hardware stamping parts, the spring material wire diameter available from 0.02 to 25mm, Compression spring, stretching spring, torsion spring, linear spring, spring (constant force spring, fixed force spring, flat wire spring) square wire spring, paper clip, battery spring, antenna spring, toy spring, lighting spring, medical instrument spring.....

螺絲
絲釘

Fastener and Screws

Specializing in the production and development of various materials of drilling screws, self-tapping screws, machine teeth plate gold screws, electronic screws; Inner hexagon screws, etc

五金
沖壓

Stamping parts

All kinds of precision stamping parts, shrapnel, contact sheet, copper sheet, stainless steel sheet, manganese steel sheet and so on...

焊接

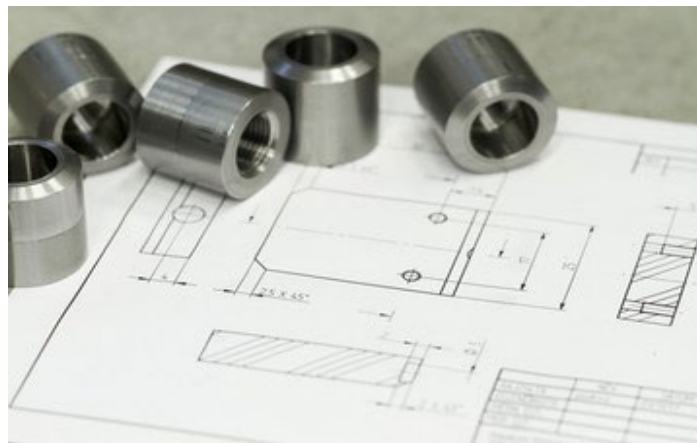
Assembly

The company has silver welding, brazing, butt welding, spot welding, argon arc welding, laser welding..... Product assembly and welding.

車件

Precision CNC Machining Parts

Stainless steel parts, copper parts, non-standard parts, special-shaped parts, nuts, nut posts, connectors, pins, shaft cores.....
(Material: iron, stainless steel, copper, aluminum.....)



各类铁扣

ALL KINDS OF
IRON BUTTONS



各类车件

VARIOUS CNC
PRECISION PARTS



五金冲压

METAL
STAMPING



电池弹簧

BATTERY
SPRING





五金弹簧

HARDWARE SPRING



冲压弹片

PUNCHING SHRAPNEL



五金配件

HARDWARE
ACCESSORIES



螺丝螺母

SCREW NUT

01、 3D forming machine, wire spring machine

Maximum production line diameter 25MM, all kinds of 3D line forming products and high difficulty spring products.

02、 shot blasting

Repair material scars, increase the life of the spring.

03、 Post-processing equipment

Products of grinding, rubbing teeth, embossing, ear pressure, sharpening, etc.

04、 Testing equipment

The world's most precise strength tester, Swiss 3D imaging instrument, CCD full inspection instrument

05、 Cleaning and shot blasting

Improve the surface finish, deburring.





Application Range

Eco – Rapid Prototyping

Aerospace and defense industry

National defense military equipment spring, unmanned system equipment spring, military communication system antenna spring, aerospace, weapons, ships, radar, electronics and communication station antenna spring and other related fields.

电钻工具弹簧



电钻工具弹簧



Electronic products and smart home industries

Garden electric lawn mower, electric spray machine, electric scraper, fixed torque torque screwdriver, electric punching scissors, printers, office equipment, computer adjustment equipment, keyboard, mouse, calculator, remote control, air conditioning, TV, washing machine, smart home related fields.

糖尿病注射器弹簧



向腰椎融合装置



Medical device industry

Medical instruments, electronic blood pressure instrument, blood glucose tester, radiotherapy machinery, auxiliary surgical instruments, cardiac pacemaker spring, intracranial auxiliary stent spring, heart stent guide wire, heart valve tension spring, endovascular microcatheter guide wire, cardiovascular, digestive tract, urinary system and other medical equipment related fields.

Instrument and energy industry

Air valve, hydraulic valve spring, prom parts, high precision instrument and other energy industry related accessories.

Other industries

Used for toys, locks, stationery, gifts, handicrafts, kitchen and bathroom supplies, cameras, precision equipment, sports equipment, sluice gates, fishing tackle, etc

Agricultural machinery, engineering machinery, metallurgical machinery and railway industry

Harvesting machinery, cotton picker, processing machinery, animal husbandry machinery, feed processing machinery, orchard machinery, transplanting machinery, high-speed rail, subway etc related fields.

汽车引擎盖弹簧



汽车线管弹簧



Automobile, motorcycle and buggy industries

All kinds of automobile damping spring, brake spring, switch spring, pressure spring, torsion spring, tension spring, inductance forming, new energy copper bar and other door accessories; Energy tools, bicycles, buggies, safety seats, baby strollers, cribs, children's electric vehicles, baby walkers, high dining chairs, travel boxes and other related fields.



医疗弹簧
MEDICAL SPRING



异形弹簧
PROFILED SPRING



手机弹簧
MOBILE PHONE SPRING



恒力弹簧
CONSTANT SPRING



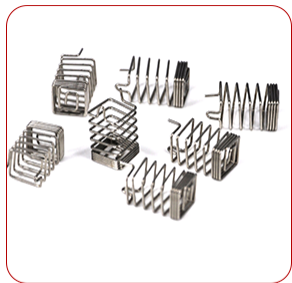
Touch Spring



Kitchen & bath Hook



Torsion Spring





TENSION SPRING



COMPRESSION SPRING



TORSION SPRING



VARIOUS PINS



LIGHTING SPRING



PROCESS SPRING



SCREW NUT



Soft conductor for new energy battery

Soft connection of new energy battery is a kind of soft conductive device. The soft part is protected by the flexible expansion joint and has no limitation on the assembly Angle. A hard connection is the same as a soft connection, but lacks the advantages of a soft connection. Battery soft connection strong conductivity, small resistance value, durable, good electrical performance, easy to use and install, can improve the electrical conductivity, adjust the equipment installation error, at the same time (shock) compensation function, easy to detect and equipment maintenance.

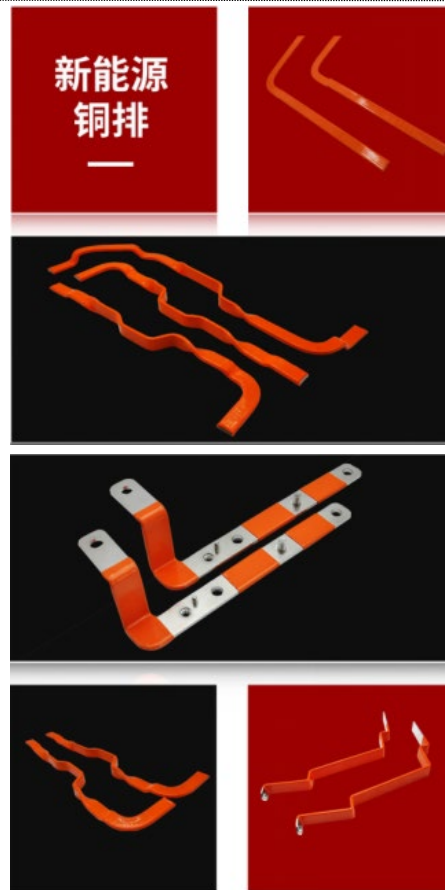
Soft connection composition of new energy battery: copper foil thickness * copper foil width * copper foil length What materials do you need for copper bar customization?

First: there should be detailed product drawings including 2D and 3D

Second: the need to have the parameters of the product include what to use on the voltage of the product chart, what surface treatment is needed, such as nickel plating, bright tin or mist tin, with thermoplastic tube also immersed powder, what color and other basic requirements.

New energy soft connection process:

0.1 copper foil is used as raw material for soft connection of new energy batteries, and raw materials are cut according to the design requirements of drawings. Whether the whole product is attached to the nickel sheet or part of the attached, it is necessary to use the nickel sheet to mark the two ends of the contact surface. Nickel sheet, cut raw materials in accordance with the requirements of the drawing (load current) design and installation, cut raw materials in accordance with the installation requirements placed on the corresponding mold of the welding machine, the workpiece working contact surface of high temperature and high pressure molding integration





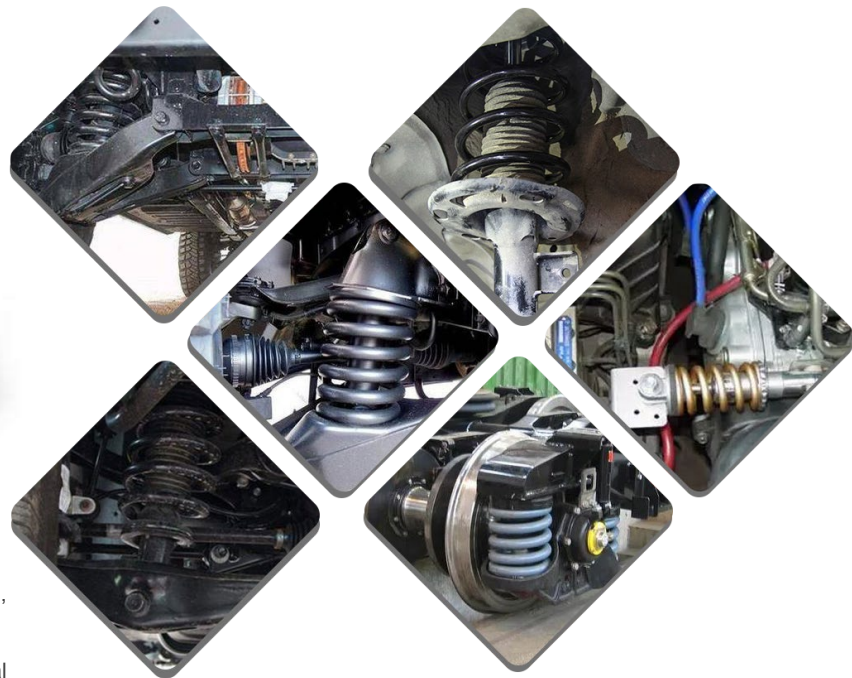
- Brake spring
- Seat spring
- Clutch spring
- Key spring
- Harness clip spring, etc
- Hood lock spring
- Damping spring



Engine: valve spring, pressure spring in belt tensioner, hydraulic tappet spring

Body: glass lifter, inner spring of cover lock, inner stop spring of rear door/cover hydraulic rod, rearview mirror return spring, seat spring

Chassis: shock absorber internal spring, shock absorber spring, vacuum booster pump internal return spring, brake pump/sub-pump internal return spring trunk spring.....





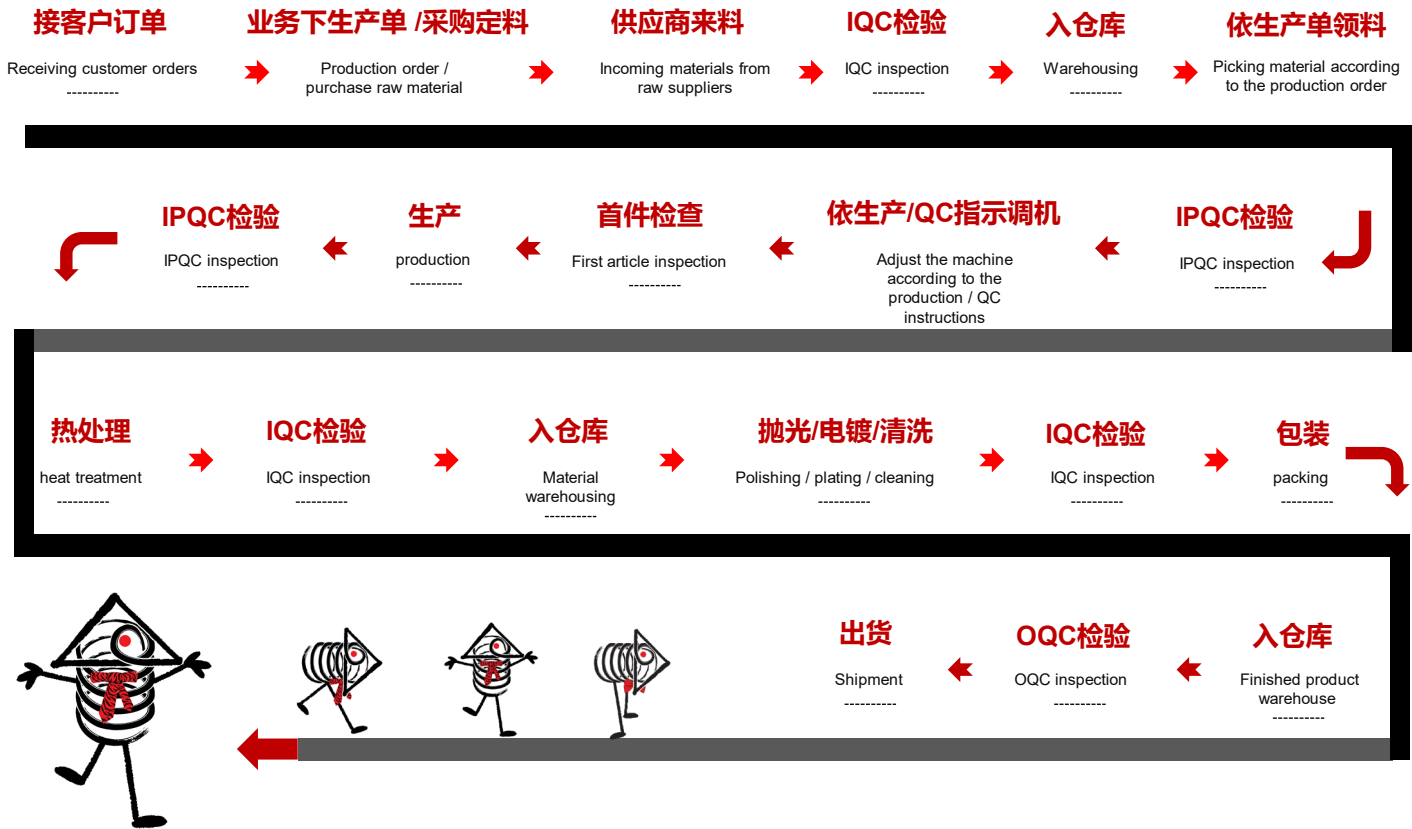
The material we use : From China, Taiwan, Korea, Italy, Japan, Germany, Switzerland, Austria...

Material	Category	Type	Characteristic	Usable range
材料 【sus】	Magnetic, non-magnetic, smooth and fog (resin, dark)	201, 202 etc	Nickel content is small, can not meet the salt spray test requirements.	This material is commonly used in process springs
		301, 302, 303, 304, 305, 309, 310, 316, 321 etc	This kind of material is suitable for use, have acid and alkali resistance, high temperature resistance.	Medical instruments, military, aerospace, agricultural machinery, industrial and mining equipment, electronics, electrical appliances, daily necessities tools, locks, toys, etc., suitable for all kinds of products
		410, 420, 430 etc	Acid and alkali resistant, high temperature resistant.	Medical instruments, military, aerospace, electronics, electrical appliances...
		630, 631 etc		Medical instruments, military, aerospace, agricultural machinery, industrial and mining equipment, electronics, electrical appliances, daily tools, locks, toys and so on... Suitable for all kinds of products.
碳钢 (SWC)	Low carbon steel, high carbon steel, manganese steel, nickel wire, galvanized iron wire	60Si2Mn, 60Si2CrVA, 55CrSi	High hardness, good elasticity.	Medical instruments, military, aerospace, agricultural machinery, industrial and mining equipment, cars, baby buggies, electronics, electrical appliances, daily necessities tools, locks, toys, etc... Suitable for all kinds of products.
琴钢丝 (swp)		SWP-B, SWP-A	Tensile resistance, long service life	Medical instruments, military, aerospace, agricultural machinery, industrial and mining equipment, cars, baby buggies, electronics, electrical appliances, daily necessities tools, locks, toys, etc... Suitable for all kinds of products
铜材 copper		Phosphorous copper wire, tinned copper wire, nickel plated copper wire, bronze, copper, phosphorus, copper, beryllium copper, etc	Good conductivity of electronics, electrical appliances, antennas, etc.	Medical instruments, military, aerospace, agricultural machinery, industrial and mining equipment, automobiles, electronics, electrical appliances, antennas, etc...
铁 iron	Galvanized iron wire, water pumping wire		Soft material	Medical instruments, military, aerospace, agricultural machinery, industrial and mining instruments, crafts, decoration. Wire tie material...



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For a long time we are committed to the partnership with well-known brands, in order to subvert the increasingly fierce market competition environment, we have been constantly optimizing the supply chain, optimize the internal manufacturing costs, and achieve a win-win situation with customers.

With strong corporate strength and extremely advantageous services, the company has become Microsoft, Apple, Samsung, HP, Panasonic, Gree, Philips, Toshiba, Xinwang Da, Ningde times, and other well-known brand cooperation suppliers.



We Can Do More Than You Imaging!

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ECO INDUSTRIAL COMPANY LIMITED - your spring customizing expert

