



ELITE SPRINGS PTE LTD

SPRINGS | MIRCO-CUT | FORMING | ASSEMBLY



COMPANY PROFILE

HOW FINE WE CAN GO?

Elite Springs Pte Ltd has an establishment of over 28 years since 1994. We have a combined experience of more than 100 years and automated machines & equipment to ensure that the parts produce are the highest quality.

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ABOUT ELITE SPRINGS

Elite Springs Pte Ltd has an establishment of over 28 years since 1994. We have a combined experience of more than 100 years and automated machines & equipment to ensure that the parts produce are the highest quality. In today's global economy and the rapid expansion of markets and services we need to keep abreast with clients' demands. In order to meet these challenges, we will constantly provide clients with cost effective top of the line products and services. In this respect, Elite Springs is a reliable business partner as we collaborate with business associates to achieve this mission.

We are a manufacturer of precision spring, micro-cutting and micro forming part, we also provided value add service for other processes and assembly.

Specialist of high mix low volume - No job & quantity are too small for us. We commit to speedy & responsive in rapid prototyping and design development phase.

Customized in mass production - Competitive & Economical when ready to produce in scale when development part are finalize.

Stockist of Standard dimension spring part - Please download and refer to our catalogue. With more than 5000 design in stock for your reference. We can deliver the items in an extremely short lead time.

In regards to customized parts & material, we have handle a wide range of material includes ferrous, non-ferrous and special material as follows Stainless steel 301, 304, 316, 17-7PH, 631, 431, 321, 201, 404, 302, High carbon steel, Low carbon steel, Mild steel, Brass, copper, beryllium copper, Aluminium, Titanium, Inconel, Tungsten (Copper tungsten, Pure tungsten, Tungsten alloy) and many more...

We have a team of capable and efficient staff in the industry so that you can be assured of getting only the best in terms of products and services from Elite Springs Pte Ltd.



VISION , MISSION & VALUE



VISION

- To become the most innovative and technological advance manufacturer in our industry.



MISSION

- To serve and exceed customer's expectation .



VALUE

- We do our best and do not cut corner, encourage value like-minded people, stay hungry & continuous innovation, quality assurance.

CERTIFICATION & ACCOLADE



ISO 9001



BIZSAFE 3



SPETA



SBF



SMF

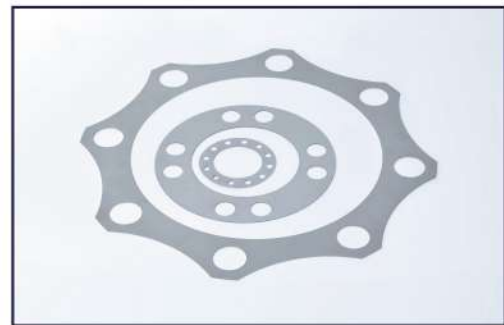
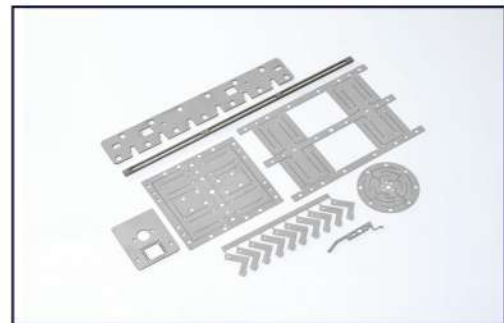
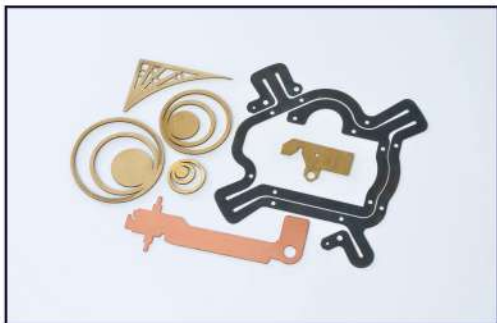


SMI

MICRO-CUT (SHIM & FLAT PART)

In today's high technological industries, precision cutting has encompassed a wide range of industries. Its importance covers every industry from medical to aerospace, military, electronics, semiconductor and others.

Therefore, with the aid of our precision cutting technology, we are able to cut to as thin as 25 micron (0.025mm) in thickness with minimal burr and tolerance as tight as 3 micron ($\pm 0.003\text{mm}$). With special set-up, we are able to cut & drill diameter as small as 50 micron (0.05mm).



MATERIAL

Metal, Plastic, Ceramics, Silicon Wafers, Glass and other material at request

SHAPES & DESIGN

Customized and manufacture as per requirement.

ADDITIONAL PROCESS

Tempering, de-burring, tumbling, shot-peening, sand blast available at request.

FINISHING

Zinc, passivation, nickel plate, black oxide, silver, gold, powder coat, painted finishes available at request.

QUANTITY

As little as 1 pcs or up to as many as millions of pcs.

Customized dimension: Please contact or send us your drawing.

EDM WIRE CUT



This method of cutting is incredibly precise, and can be used to cut almost any electrically-conductive material. To accomplish cutting, a thin EDM wire is suspended between two mechanical guides. Then, it's electrically charged, forming an electrode.

To accomplish cutting, a thin EDM wire is suspended between two mechanical guides. Then, it's electrically charged, forming an electrode. When the edm metal cutting comes near the wire and the workpiece material, it creates sparks that cut the material way, leaving behind a negative imprint.

During the cutting process, the workpiece and wire are submerged in deionized water, which allows the debris from cutting to be washed away.

The charged wire itself never actually contacts the material that is being cut, so wire cutting services material can be used to create extremely small, delicate components that require a level of precision that is impossible to accomplish with traditional CNC machining.

MATERIAL

Spring steel, stainless steel or galvanized steel, bronze, copper, brass, tungsten, titanium, inconel or other material at request

SHAPES & DESIGN

Customized and manufacture as per requirement.

Customized dimension: Please contact or send us your drawing.



PRECISION SPRINGS

Springs are essential mechanical components used in countless mechanisms and tool applications. The most common materials range from spring steel, music wire or stainless steel.

We can do customized to your dimension and we have a catalog of standard size items that are conveniently available. Elite Spring facilities are third-party certified to ISO9001.

MATERIAL

Spring steel, stainless steel or galvanized wire, silicon-chrome, phosphor bronze or other special material available at request

ADDITIONAL PROCESS

Tempering, scragging, de-burring, tumbling, shot-peening available at request

FINISHING

Zinc, passivation, nickel plate, black oxide, silver, gold, powder coat, painted finishes available at request

QUANTITY

As little as 1 pcs or up to as many as millions of pcs.

Customized dimension: Please contact or send us your drawing.

CUSTOMIZED AND STANDARD DIMENSION ARE AVAILABLE AT REQUEST:



Compression Springs



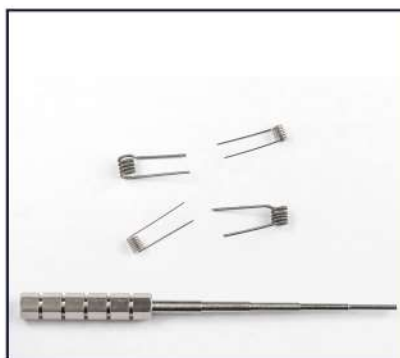
Torsion Springs



Conical Springs



Extension Springs



Micro Springs

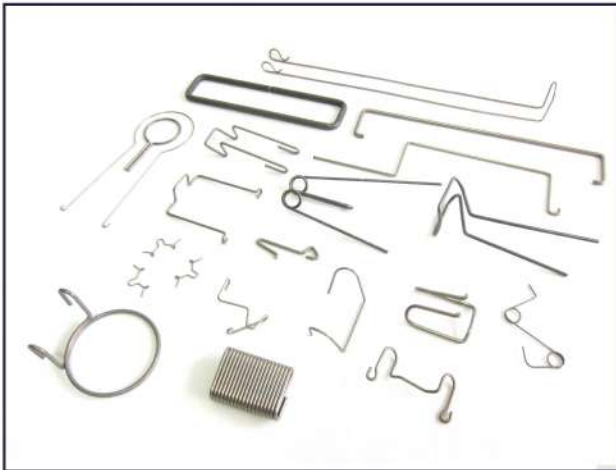


Heavy Duty Springs

WIRE FORMS

Wire form may have various functions or application and there is no standard design. Their essential task is to absorb forces and torques, shapes are almost unlimited according to their application areas.

The shape and size of wire forms depends on their functionality and installation space. Elite Spring facilities are third-party certified to ISO9001



MATERIAL

Spring steel, stainless steel or galvanized wire, silicon-chrome, phosphor bronze or other special material available at request

SHAPES & DESIGN

Customized and manufacture as per requirement.

ADDITIONAL PROCESS

Tempering, de-burring, tumbling, shot-peening, sand blast available at request.

FINISHING

Zinc, passivation, nickel plate, black oxide, silver, gold, powder coat, painted finishes available at request.

QUANTITY

As little as 1 pcs or up to as many as millions of pcs.

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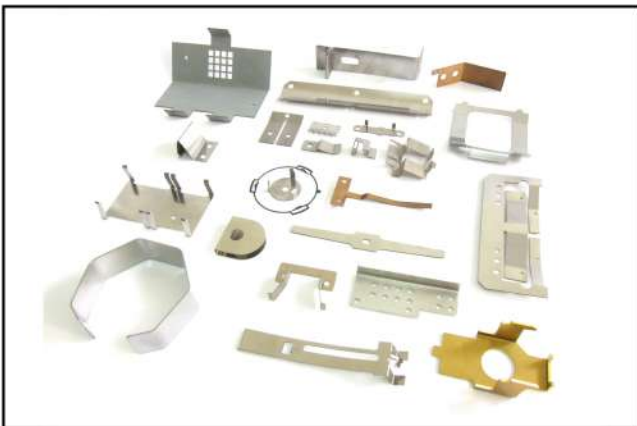
MICRO FORMING & SHEET METAL

A manufacturing process where metal elasticity is manipulated, Metal Forming involves the deformation of a metal where it is bent to achieve the desired morphology, size and components.

Elite Springs has been supplying and constructing metal sheets since its establishment.

Till date, with the acquisition of cutting edge technology, the company's production of quality springs and metal sheets have just raised the bar yet again, providing a wide array of selections and precise production.

Many of these deformation processes, used in making crafts, automobiles and other products, uses complex equipment that is derived from the latest advancement in science and technology.



MATERIAL

Spring steel, stainless steel or galvanized steel, bronze, copper, brass, tungsten, titanium, inconel or other material at request.

SHAPES & DESIGN

Customized and manufacture as per requirement.

ADDITIONAL PROCESS

Tempering, de-burring, tumbling, shot-peening, sand blast available at request.

FINISHING

Zinc, passivation, nickel plate, black oxide, silver, gold, powder coat, painted finishes available at request.

QUANTITY

As little as 1 pcs or up to as many as millions of pcs.

Customized dimension: Please contact or send us your drawing.



Standard Dimension Springs



Disc Spring



Long Compression



Long Extension



Torsion Spring



Compression Spring



Extension Spring

STANDARD STOCK ITEM

This catalogue describes Elite Springs complete service which is intended primarily for engineering design products that are involved in prototype and development work requiring close tolerance spring-type parts.

With more than 28 years of experience, be it designing, making and handling millions of spring parts over the years, this background gives us information about the many types of springs used in various industries, including their materials used, characteristics and usage rates. Hence, Elite Springs catalogue is produced.

MATERIAL

High carbon spring steel and stainless steel material available at request.

QUANTITY

As little as 1pcs or up to as many as millions of pcs.

WHY US



DESIGN

More than 5,000 of design to select from stock



TIME SAVING

You only need to select the catalog number of the item you require, therefore saving a lot of time in designing.



ECONOMICAL

No tooling charge or setup cost, there fore saves money



CONSISTENCY

What you purchase today will be of the same quality for your next order.



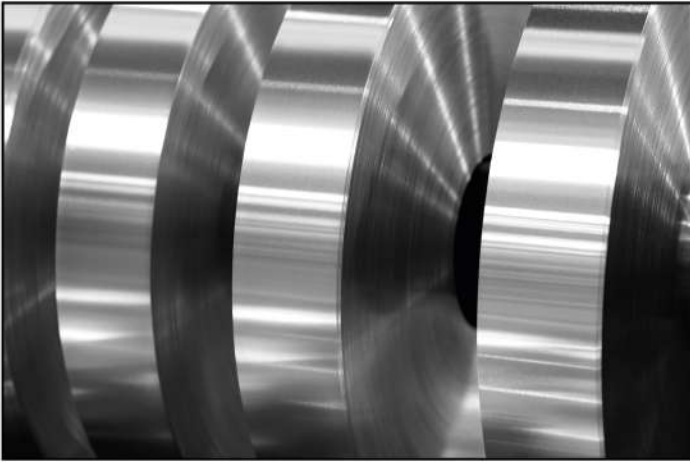
LEAD TIME

Most of the item are ex-stock, therefore we can process the order swiftly.

MATERIAL (SHIM & WIRE STOCK)

We can process shim and wire stock from coil of material into each roll or sheet of with the thickness, material, size and weight available at request.

SHIM AND SHEET



MATERIAL

SUS 301/302/304/316/321/17-7PH, Beryllium Copper, Brass, Titanium, Inconel, Tungsten

THICKNESS

From 0.02mm - 6mm

SPRING WIRE



MATERIAL

SUS 304 WPB / JIS G4314 / ASTM 313 / AISI 304 / EN 1.4301

JIS G3522 / ASTM A228 / AISI 1086 / DIN 1.1269

JIS G3521 / ASTM A227 / AISI 1065 / DIN 1.123

THICKNESS

From 0.15mm to 12.50mm



ADDITIONAL PROCESSES



1. Sub-Assembly



2. Micro Welding



3. Laser Engraving / Marking



4. Ultrasonic Cleaning



5. Deburring



6. Adhesive Bonding & Hydrophobic coat



7. Part sorting & Customized Packaging

SECTOR THAT WE SUPPORT



MEDICAL



AEROSPACE



HARD DISK & ELECTRONICS



SEMI CONDUCTOR



OIL & GAS AND MARINE



MILITARY



OPTICAL & PHOTONIC



HOUSEHOLD PRODUCT & APPLIANCES



ELITE SPRINGS PTE LTD

SPRINGS | MICRO-CUT | FORMING | ASSEMBLY

 No. 50 Bukit Batok St. 23
#06-23, Midview Building,
Singapore 659578

 6566 2252 (4 lines)

 6566 2115

 elitesprings@singnet.com.sg