

FACTORY TO PRODUCE YOUR PRODUCTS

Springs & Wire Forms

Precision custom springs and wire forms manufactured to drawing or sample — compression, tension, torsion, double torsion, spiral and constant force springs, and complex 2D and 3D wire forms. Every part is made to the customer's specification, so there is no fixed size list: send a drawing or a sample and we quote against it.

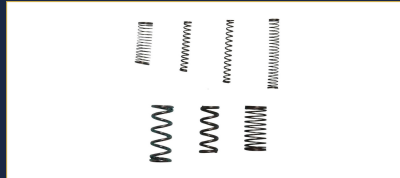
PRODUCT RANGE



01 Wire Forms Wire: Custom

Custom wire forms produced on CNC multi-slide wire forming machines. Complex 2D and 3D shapes, hooks, clips and shaped wire components to drawing or sample.

Spring steel · Music wire · SUS304 · Brass



02 Compression Springs Wire: 0.1 – 0.8 mm

High-speed CNC production with precise OD control and auto length detection for consistent free-length tolerance. Straight, taper, barrel and battery profiles.

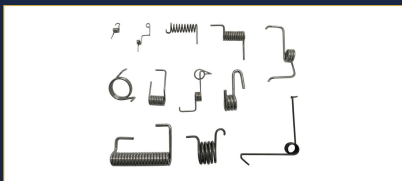
SUS304 · Spring steel · Music wire



03 Tension Springs Wire: 0.13 – 6.0 mm

German hooks, English hooks or side loops. Extensive experience across many shapes, sizes and configurations — complex geometries welcome.

Spring steel · Music wire · SUS304



04 Torsion Springs Wire: 1.5 – 4.5 mm

Produced on CNC spring formers with touch-probe angle control for precise leg geometry. Straight legs, bent legs, hooks and special end forms.

Spring steel · Music wire · SUS304



05 Double Torsion Springs Wire: 1.0 – 2.4 mm

Both coil bodies formed and aligned with CNC precision for balanced load distribution. Shot peening available for high-cycle fatigue applications.

Spring steel · Music wire · SUS304



06 Spiral & Constant Force Strip form

Spiral springs and constant force springs delivering near-uniform load through travel. SUS301 HV580 for constant force; USA-sourced options available.

SUS301 HV580 · Spring steel · SUS304

CAPABILITIES

◆ Custom to Drawing or Sample

Send your drawing or a physical sample and we will evaluate feasibility, confirm tolerances, and offer competitive pricing.

◆ Material Flexibility

Spring steel, music wire, SUS304, SUS301 HV580 and brass — round wire or custom profile wire to your specification.

◆ CNC Precision

Produced on advanced CNC versatile spring formers with auto length detection for consistent tolerance across every batch.

◆ Surface Finish Range

Plain, zinc (clear / yellow), black oxide, phosphate, E-coating, painting and shot peening to your application requirements.

CUSTOMIZED PRODUCT — NO FIXED SIZE, PRICE ON REQUEST

Every spring and wire form is made to the customer's drawing or sample, so wire diameter, free length, coil count, leg geometry, material and finish are all set by your specification rather than by a catalogue part number. Send your drawing, sample or load requirement and our engineering team will confirm feasibility and tolerances and return a quotation and lead time.

Custom geometry · Custom material · Custom finish · Prototype to production · OEM / ODM

MATERIALS

Material	Notes
Spring Steel	High carbon steel wire — general purpose spring material
Music Wire	High tensile, fatigue resistant
SUS304	Austenitic stainless steel — corrosion resistance
SUS301 HV580	High hardness stainless — constant force springs
Brass	Copper alloy, corrosion resistant
Custom Profile	Non-round wire cross-sections available

SURFACE FINISHES

Finish	Process
Plain	No coating, as-formed
Zinc (Clear)	Electro zinc plating, clear passivate
Zinc (Yellow)	Electro zinc plating, yellow passivate
Black Oxide	Blackening treatment
Phosphate	Anti-corrosion phosphating
E-Coating / Paint	Electrophoretic or spray coating
Shot Peening	Enhanced fatigue life — torsion and double torsion

MANUFACTURING & QUALITY

◆ Equipment

In-house CNC spring coilers, versatile spring formers, multi-slide wire and strip formers, 2D/3D wire benders, end grinders and stress-relief ovens.

◆ Heat Treatment

Stress relief and heat treatment applied as required; shot peening available for torsion and double torsion springs in high-cycle service.

◆ Process Control

Auto spring length detection and touch-probe angle control hold free length and leg angle across the full production run, reducing sorting cost.

◆ Quality System

ISO 9001 and IATF 16949 certified, RoHS compliant, PPAP Level III documentation available on request.

TYPICAL APPLICATIONS

Automotive	Appliances	Industrial Machinery	Electronics	Medical Devices	Furniture & Hardware
Counterbalance Mechanisms	Retraction Mechanisms				

HOW TO ORDER

- 1 Send your drawing, sample or load / deflection requirement to sales@seyunda.com.
- 2 We confirm feasibility, material, finish and achievable tolerances.
- 3 You receive a quotation with tooling cost where applicable, MOQ and lead time.
- 4 First-article samples are supplied for approval before series production.

SEYUNDA PTE LTD

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ISO 9001 · IATF 16949 · RoHS Compliance · PPAP III

SPRINGS & WIRE FORMS

Representative Production Samples · Custom sizes to your drawing



seyunda.com

The parts below are representative of recent production and are shown to indicate the range we hold tolerance over — they are not a stock list. Any wire diameter, dimension, material and finish within these ranges can be quoted to your drawing.

COMPRESSION SPRINGS

Wire Ø	Material	Major Dimension	Finish
0.11 mm	SUS304	OD 4.68 / FL 12.8 mm	Plain
0.16 mm	SUS304	OD 3.3 / FL 21.2 mm	Plain
0.25 mm	SUS304	OD 2.5 / FL 12.5 mm	Plain
0.25 mm	SUS304	OD 2.4 / FL 19.8 mm	Plain
0.33 mm	SUS304	OD 6.9 / FL 13.3 mm	Plain
0.80 mm	SUS304	OD 6.0 / FL 14.6 mm	Plain
0.80 mm	Spring steel	OD 7.0 / FL 17.7 mm	Zinc (clear)

TENSION SPRINGS

Wire Ø	Material	Major Dimension	Finish
0.6 mm	SUS304	OD 6.4 / FL 101.8 mm	Plain
1.0 mm	Music wire	OD 8.9 / FL 28.3 mm	Plain
1.2 mm	Spring steel	OD 13.3 / FL 53 mm	Zinc (yellow)
1.3 mm	Spring steel	OD 10 / FL 117.5 mm	Plain
1.4 mm	Spring steel	OD 13.4 / FL 161 mm	Plain
1.5 mm	Music wire	OD 12.7 / FL 54 mm	Plain
1.5 mm	SUS304	OD 14.5 / FL 57.6 mm	Plain
1.5 mm	Spring steel	OD 15.2 / FL 109 mm	Zinc (yellow)
1.6 mm	Spring steel	OD 15.6 / FL 57 mm	Zinc (yellow)
1.6 mm	Spring steel	OD 16.6 / FL 58 mm	Zinc (yellow)
2.0 mm	Spring steel	OD 17.1 / FL 66.9 mm	Zinc (yellow)
2.3 mm	Spring steel	OD 22.5 / FL 60.5 mm	Zinc (clear)
2.3 mm	Spring steel	OD 26.4 / FL 56.5 mm	Zinc (yellow)

TORSION SPRINGS

Wire Ø	Material	Major Dimension	Finish
1.5 mm	SUS304	49.0 length	Plain
1.6 mm	Spring steel	8.3 OD	Zinc (clear)
1.9 mm	Music wire	51.0 length	Plain
2.0 mm	Music wire	61.0 length	Zinc (yellow)
2.4 mm	Spring steel	14.7 OD	Zinc (yellow)
2.4 mm	Spring steel	17.3 OD	Black oxide
2.9 mm	Spring steel	15.0 OD	Zinc (yellow)
2.9 mm	Spring steel	33.6 OD	Zinc (yellow)
3.4 mm	Music wire	30.6 OD	Shot peening
3.5 mm	Spring steel	88.0 length	Zinc (yellow)
4.0 mm	Spring steel	87.4 length	Zinc (yellow)
4.5 mm	Spring steel	23.7 OD	Zinc (yellow)

DOUBLE TORSION SPRINGS

Wire Ø	Material	Major Dimension	Finish
1.0 mm	Music wire	42.0 width	Phosphate
1.2 mm	SUS304	19.1 width	Plain
1.5 mm	Spring steel	13.0 width	Black oxide
1.5 mm	Spring steel	19.2 width	Zinc (clear)
1.8 mm	SUS304	59.0 width	Plain
2.3 mm	SUS304	29.3 width	Plain
2.4 mm	Music wire	90.0 width	Shot peening

SPIRAL & CONSTANT FORCE

Strip size	Material	Major Dimension	Finish
7 × 0.15 mm	SUS301 HV580	11 mm	Plain
8.0 × 0.5 mm	SUS301 / SUS304	17.9 mm	Plain
10.0 × 0.6 mm	Spring steel	15.6 mm	Zinc (yellow)

NOTES ON THE TABLES ABOVE

◆ Not a stock list

These are parts already produced, listed to show the working range. Orders are made to your drawing; stock is not held against these dimensions.

◆ Leg angle

On torsion and double torsion springs the leg angle is set by touch-probe control on the CNC former.

◆ Free length

Held across the production run by the in-machine auto spring length detector rather than by post-process sorting.

◆ Finish

Any finish from the surface finish table on page 2 can be applied; shot peening is offered where fatigue life is critical.

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