

# PRECISION SPRING SOLUTIONS

Compression, Extension, Torsion and Wire Form Springs, Custom Engineered



## Built to Perform. Engineered to Last.

From automotive systems to medical devices, our springs handle the load so your machines never have to guess.

- **Wire Diameter**  
0.2 mm to 25 mm
- **Outer Diameter**  
2 mm to 200 mm
- **Materials**  
Steel, Stainless (302/304/316), Phosphor Bronze, Inconel

## Key Specifications

Wire Diameter  
**0.2 to 25 mm**

Outer Diameter  
**2 to 200 mm**

Surface Treatment  
**Zinc, Phosphate, Paint**

Material Grades  
**Steel / SS / Bronze**

Delivery Time  
**1 to 4 Weeks**

Min. Order Qty  
**1 pc to Millions**

## Application Areas

● Automotive

● Defense

● Agriculture

● Furniture

● Home Appliances

● Medical Devices

● Aviation

● Electronics

## Product Range



**Extension Springs**  
Hook ends / Stainless or Zinc



**Torsion Springs**  
Rotational energy / Leg types



**Wire Form Springs**  
Custom geometry / Fastening



**Recoil Springs**  
High-strength steel / Defense



**Custom Production**  
Per drawing / Any alloy



**Compression Springs**  
CNC coiled / All sizes

## About trigontek

From precision components to engineering design, consultation and metal works, trigontek helps industrial customers worldwide turn complex requirements into reliable, ready-to-install solutions. Established in 2023, our team members each bring over 15 years of experience from leading international organizations.

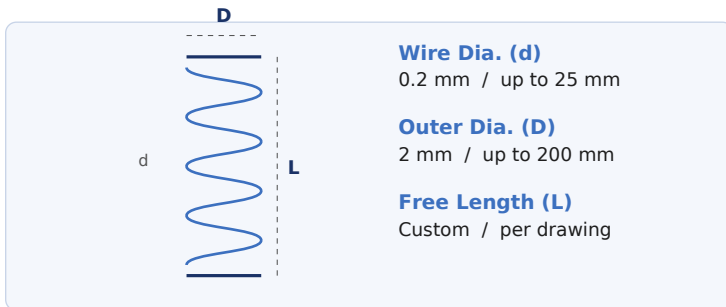
## Product Series Overview

Series	Type	Material	Dimensions	Surface	Typical Application
CS	Compression	Carbon Steel	d:0.2-25 / D:2-200 mm	Zinc / Phosphate	Machinery, Automotive, Furniture
ES	Extension	Carbon Steel	d:0.3-12 / D:3-120 mm	Zinc / Phosphate	Home Appliances, Agriculture
SS	Compression	Stainless 304/316	d:0.2-10 / D:2-100 mm	None / Passivate	Medical, Food, Chemical
TS	Torsion	Carbon/Stainless	d:0.3-8 / D:5-80 mm	Zinc / Paint	Furniture, Electronics, Defense
WF	Wire Form	Carbon/SS/Bronze	d:0.3-6 / D:Custom	Zinc / Bright	Fastening, Connectors, Support
RS	Recoil	High-Strength St.	d:0.5-5 / D:8-45 mm	Phosphate	Defense, Semi-Auto Systems

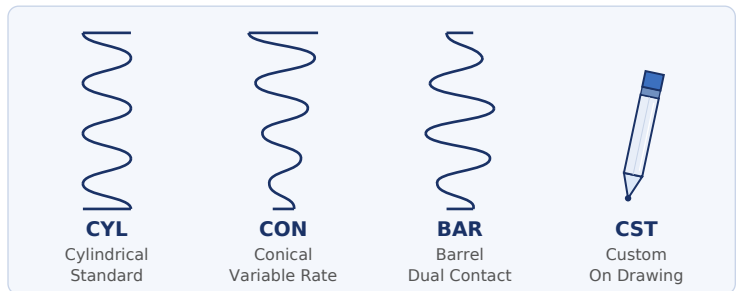
## Material / Grade Selection Guide

Material / Grade	Wire Range	Key Property	Best Use Case
Patented Carbon Steel	0.2-25 mm	High tensile strength	General industrial, automotive, machinery
Stainless Steel 302	0.2-6 mm	Corrosion resistant	Food processing, light chemical environments
Stainless Steel 304	0.2-10 mm	Good formability	Medical devices, clean-room applications
Stainless Steel 316	0.2-8 mm	Marine grade	Offshore, aggressive chemical environments
Phosphor Bronze	0.3-5 mm	Non-magnetic, conductive	Electronics, battery contacts, sensors
Inconel / Special Alloys	0.3-4 mm	High-temp performance	Aviation, defense, extreme conditions

## Standard Dimensions



## Available Configurations



## How to Order: Part Number Builder

<b>TK</b>	<b>CS</b>	<b>304</b>	<b>ZN</b>	<b>050</b>
Brand	Type	Material	Surface	Wire Dia.

Example: TK-CS-STL-ZN-050 = Compression Spring, Carbon Steel, Zinc Coated, 5.0 mm Wire Dia.

## Request a Sample or Technical Datasheet

Custom configurations, special alloys, and prototype batches available on request.

**Email** info@trigontek.com

**Web** www.trigontek.com

**WhatsApp** +90 505 406 69 74

**Office** Ankara, Türkiye