



**NOT ONLY SPRING MAKERS,  
BUT ALSO SOLUTION PROVIDERS.....**



**Defence**



**Automotive**



**Agriculture**



**Electronics**



**Textile**

## RAW MATERIAL:

## ROUND WIRE:

## MATERIAL GRADES:

- i) SPRING STEEL,
- ii) STAINLESS STEEL,
- iii) OIL HARDENED TEMPERED STEEL,
- iv) PRECIPITATE HARDENED
- v) PHOSPHOR BRONZE
- vi) NIMONIC
- vii) INCONEL

## STRIP:

## MATERIAL GRADES:

- i) STAINLESS STEEL
- ii) HIGH CARBON STEEL

## COMPRESSION SPRINGS

Springs with static & dynamic load requirements are manufactured with oil hardened tempered spring steel wire, patented cold drawn wires and stainless steel wires. Springs are designed & manufactured in cylindrical, conical, barrel (convex) shape

### Applications:

PRV Springs  
Fuze Springs  
Plunger Springs  
Clutch Springs etc.



## TENSION SPRINGS

Tension springs are used for creating resistance against linear tension forces or pulling forces. Springs can be manufactured with different hook shapes as per customer's requirement. Tension springs can be custom ordered and designed to suit the specific purposes of any load or project.

### Applications:

Automotive Brakes & clutch assemblies  
Brush springs in motors  
Agricultural & Textile Applications

## TORSION SPRINGS

Torsion springs exert a torque when they are twisted or deflected. A simple torsion spring has straight, but any bends or shapes can be formed as per customized requirement. Double torsion springs can be used when twice the force is required or when you need an even distribution of torque.

### Applications:

Gear Transmission System  
Kick Starter of 2- Wheelers  
Electrical Switch Gear  
Engine chain tensioners etc.



**RAW MATERIAL:****STANDARDS:**

Sound Knowledge & use of materials of various international standards like,

**IS, BS, DIN, JIS, AISI, ASTM, SUS, SWPA, SWPB, OTEVA**

**SOURCE OF RAW MATERIAL:**

From Indigenous sources as per customer requirements and imported from different countries like,

**SWEDEN, GERMANY, SWITZERLAND, JAPAN, SOUTH KOREA**

**WIRE FORMS**

Custom wire forms are manufactured in a variety of shapes to perform specific functions.

**Applications:**

Magnet holders in motors  
Wire Guide in Automotives,  
Wire Rings in different Assemblies,  
Hose-Clamps

**SPIRAL SPRINGS**

Spiral springs which are usually made up of rectangular section materials, are wound flat, generally with increasing space between coils. Torque delivered per revolution is linear for the first 360°

**Applications:**

Seat Decliner in 4-Wheelers,  
Combers in Textile Machinaries,  
Other SPM's

**SPRINGS FOR DEFENCE SECTOR**

We are Specialized in making wide range of springs to different defence sectors. Only imported materials are used for defence springs applications. Springs are thoroughly subjected to strain-ageing and fatigue testing for life.

**Spring Striker,  
Spring Shutter,  
Spring Detent,  
Tube Spring,  
Tension Spring,  
Hand Spring**

**Main Spring,  
3 Arms Spring,  
6 Arms Spring,  
Hair Spring,  
Spring Locking Pin,  
Spring Arming**

# SPRINGS FOR DEFENCE SECTOR



## Company Profile

The Industry is incorporated by eminent experts with more than four decades of experience in spring manufacturing technology of all varieties of precision springs to international standards with latest Manufacturing Systems.

The industry is equipped with imported special purpose CNC Wire formers, Spring Coiling Machines, highly advanced Spring End Grinding Machines, Multi-slide Presses, precision controlled Stress-relieving Furnaces, Shotpeening Machine, Special purpose tools with continuous improvement projects further supported by highly skilled & trained personnel.

The Industry is adequately equipped with In-house spring testing facilities of very high precision Electronic load testing instrument, Electronic Torsion testers for torque measurement. Digital Linear Measuring Instruments & Dial gauges, Profile Projector and appropriate special testing devices as required.

**ESPL**  
The Spring Makers

AN ISO 9001-2015 CERTIFIED COMPANY

**EXCEL SPRINGS PVT LTD,**  
PLOT # Q1, VEERSANDRA INDUSTRIAL AREA, PHASE -2,  
HUSKUR ROAD, NEAR WHOLESALE FRUIT MARKET,  
BANGALORE-560100.  
PH: 080-27848049 | MOBILE: 9343036758, 9341221626  
E-MAIL: [espl@excelsprings.in](mailto:espl@excelsprings.in) | VISIT US @: [www.excelsprings.in](http://www.excelsprings.in)

