Highly Versatile, High Performance High Carbon Steel Wire.
Rajratan has been into manufacturing of world-class high carbon steel wire since early nineties in its state-of-the-art plants at India and Thailand. With consistent quality, constant innovation and dedicated customer service as its guiding principles, Rajratan has carved a niche for itself as one of the most trusted Companies in its domain. The Company is not only the leading manufacturer and supplier of bead wire in India but also the only manufacturer of bead wire in Thailand. With a comprehensive group production capacity, the company has earned a reputation of being one of the most trusted and preferred brands around the globe.

Best-in-Class Global High Carbon Steel Wire Supplier

High Carbon Steel Wire

High carbon steel wire is popularly known as black wire. It is a drawn steel wire which is manufactured from quality wire rods with high carbon content. With a wide range of usage, black wire plays a vital role in many industries from automobile and construction to engineering industries.

At Rajratan, we manufacture high carbon steel wire in our state-of-the-art plants and employ world-class patented heat treatment processes.

The high carbon steel wire we manufacture are of two Grades:
1. Spring / Rope grade confirming to Grade I, II & III.
2. Rolling quality / flattening quality grade.

Mechanical & Physical Properties:
- Wire Diameter
- Torsion
- Casting
- Tensile Strength
- Residual Torsion
- Breaking Load
- Bend
- Elongation

Standards followed for different product range:
- Spring - IS 4454
- Wire Rope - IS 1835
- Wire Rope & Conveyor Belt - BS EN 10264-2
Rajratan’s high carbon steel wire is high performance, high durability wire and is generally used in the following applications:

### Applications

- **Mechanical Spring**
- **High Performance Spring**
- **Mattress Spring & Lacing Wire**
- **Hose Reinforcement**
- **Bedding & Seating**
- **Wire Rope & Cable**
- **Conveyor Belt**
- **Automotive Cable - Outer and Inner**
- **Steel Fibre**
- **Cut Wire Shots for Shot Blasting & Pinning**

### Product Range

<table>
<thead>
<tr>
<th>Raw Material</th>
<th>Conforming to SAE, ASTM, JIS &amp; BIS international standards</th>
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<tbody>
<tr>
<td>Diameter of Wire</td>
<td>0.40 - 2.40 mm</td>
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<tr>
<td>Tensile Strength</td>
<td>1370 - 2500 N/mm²</td>
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<tr>
<td>Weight of Coil</td>
<td>20 - 250 Kgs (depending on nature of Packing)</td>
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</tbody>
</table>
| Size - Coil ID /Direction/ Weight | 1) 0.40-0.70 mm - (160-180 mm ID) /Anti-clockwise/ 20-25 Kgs  
                           | 2) 0.80-1.20 mm - (250-350 mm ID) /Anti-clockwise/ 50-60 Kgs  
                           | 3) 1.21-1.80 mm - (360-450 mm ID) /Anti-clockwise/ 80-100 Kgs  
                           | 4) 1.81- 2.40 mm- (500-550 mm ID) /Anti-clockwise/ 100-150 Kgs |
| Packing            | • Oiled / Unoiled coils wrapped in HDPE sheets            
                           • Z2 packing                                              |

We can also supply these wires in intermediate condition (Heat Treated/Patented) to be used for further drawing. The size ranges from 1.40 mm to 4.50 mm in any carbon grade.