

Cold Coiled Springs, Retaining Rings, & Carbon Composite Springs



Matthew Warren Spring



An MW Components Company: The World's Largest Range of Precision Components



A Nationwide Network for Any Industry

Matthew Warren Spring is part of a nationwide network of made-in-the-USA manufacturing facilities. With 25+ facilities, we can offer the support and personal touch of a small business with the security and reliability of a large company, ensuring you get the part you need, when you need it - no matter your industry.

Optimize Your Design

- 100+ design engineers
- 4,000+ manufacturing experts
- Reduce unnecessary costs and time

Get to Market Faster

- Prototyping
- Millions of standard parts in stock with same-day shipping
- Quick turn manufacturing and JIT delivery

Simplify Your Processes

- One-stop shop for components
- Concierge-level service & inventory management
- USA-made, private equity funded



Large cold coiled springs

We offer cold coiled springs from a wide variety of materials up to 0.750" in wire diameter.



Retaining rings

Matthew Warren manufactures coiled retaining rings and engine rings ideal for heavy machinery and transportation applications.



Small cold coil springs

We produce high quality, tight index compression springs for a variety of industries.



Carbon composite springs

Our carbon composite springs are a lightweight, high performance alternative to traditional spring materials.



Heavy duty brake springs

We're experts in heavy duty brake springs, including springs made from round and ovate wire.

Let's Talk

Discover the difference we could make to your success, contact us at Sales@MWComponents.com to schedule a conversation about your needs.



Manufacturing

- Expertise in standard and tight tolerance spring coiling and coiled ring manufacturing
- Prototype to full production
- All configurations and volumes, including CNC-controlled processes
- Round or shaped wire springs and retaining rings
- Wire shape rolling and ring grinding for close tolerance rings
- Retaining rings in butterfly, angle, rounded, square and custom end configurations

Wire Coiling Diameter Capabilities:

Cold Wound:	from .15mm – 19mm (.006" - .750")
Extension:	from .66mm – 19mm (.026" - .750")
Torsion:	from 5.7mm – 16mm (.225" - .625")
Retaining Ring:	from .50mm – 11mm (.020" - .427")

Available Materials:

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|--|--------------------------------|
| • A286 | • Inconel |
| • Carbon steel (oil tempered MB, HDMB, and more) | • Monel |
| • Chrome silicon | • Music wire |
| • Chrome vanadium | • Stainless steel (all grades) |
| • Elgiloy | • Other specialty materials |
| • Hastelloy | |

Secondary Processes and Finishes:

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|------------------------|--------------------|
| • Coating | • Paint |
| • Cold forming | • Passivation |
| • Dyeing | • Plating |
| • First article | • Powder Coating |
| • Grinding | • PPAP |
| • Hardening | • Pressure testing |
| • Heat set compression | • Prototyping |
| • Heat treating | • Shot peening |
| • High run | • Stress relief |
| • Inspection | • Tempering |
| • Lab support | • Wire rolling |
| • Laser Technologies | |

Quality

- Customer and industry performance standards compliance
- Certifications/Registrations:
 - ♦ AS9100D
 - ♦ IATF 16949:2016
 - ♦ REACH
 - ♦ RoHS

Markets Served

- | | |
|----------------|---------------------------|
| • Agriculture | • Medical |
| • Automotive | • Military & defense |
| • Aerospace | • Motorsports |
| • Construction | • Performance aftermarket |
| • Heavy truck | • Power transmission |
| • Industrial | • Transit |

Products

- | | |
|-------------------------------|--------------------------------------|
| • Custom & Specialty Products | • Constant force springs |
| • Cold Coiled Springs | • Assemblies (pre- & sub-assemblies) |
| ♦ Compression springs | • Aftermarket automotive springs |
| ♦ Extension springs | • Carbon Composite Springs |
| ♦ Torsion springs | • Heavy duty brake springs |
| ♦ Garter springs | • Retaining Rings (Coil Rings) |
| ♦ Large compression springs | • Metal stampings |
| ♦ Small and medium springs | • Tubing products (springs) |

Customer service

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|---|------------------------------|
| • Customer relationships given top priority | • Field and facility support |
| • Expert engineering and sales support | • Interactive website |