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* Ultem is a registered trademark of
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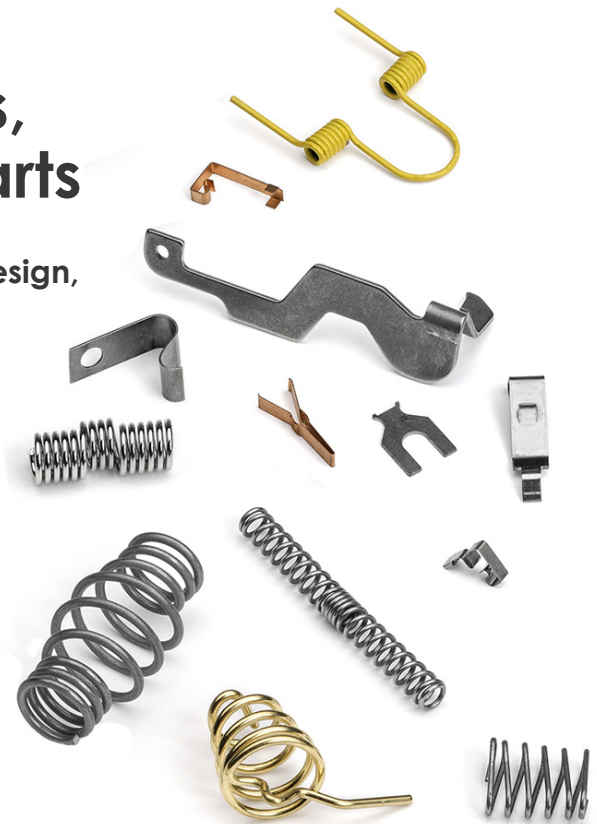
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Compression Springs	Comments	Materials and Finishes
Bantam™ Mini Series Free Length: .039"–.625"	Ends Not Ground	• Elgiloy® §
Instrument Series Free Length: .039"–2.087"	Ends Square, Not Ground	• Pre-coated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Lite Pressure™ Series Free Length: .313"–6"	Ends Square, Not Ground	• Passivated & Ultrasonically Cleaned Type 316 Stainless**
Standard Series Free Length: .173"–11.417"	Squared and Ground Ends	• Plated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
MIL SPEC MS24585 Free Length: .250"–1.5"	Squared and Ground Ends	• Uncoated Music Wire • Cadmium Plated Music Wire • Zinc Plated Music Wire • Passivated Type 302 Stainless Steel
Heavy Duty Series Free Length: .875"–6"	Squared and Ground Ends Shot-Peened and Pre-Set	• Plated Music Wire/Oil-Tempered Wire • Passivated Type 302/304 Stainless
High Pressure Series Free Length: .250"–4"	Squared and Ground Ends Shot-Peened and Pre-Set	• Passivated Type 17-7 PH Stainless Steel
HEFTY™ Die Springs Free Length: 1"–12"	Squared and Ground Ends Shot-Peened and Pre-Set Powder Coated Five color coded versions in various strengths	• Music Wire/Oil-Tempered Chrome Silicon
LeeP™ Plastic Composite Series Free Length: .375"–1.25"	Available in Color-Coded Strengths	• Ultem® Resin
REDUX™ Wave Springs	Comments	Materials and Finishes
REDUX™ Wave Compression Springs Outside Diameter: .210"–1.707" Free Height: .060"–2"		• Passivated Type 17-7 PH Stainless Steel
Bellville Washers	Comments	Materials and Finishes
Bellville Washers Outside Diameter: .188"–3.75" Inside Diameter: .093"–2.06"		• Passivated 300 Series Stainless Steel
Extension Springs	Comments	Materials and Finishes
Instrument Series Outside Diameter: .063"–.157" Free Length: .250"–1.181"	Loops in random position, full diameter machine or cross over center except those made to DIN 2097. Loop openings approximately one wire diameter	• Pre-coated Music Wire • Passivated Type 302/304 Stainless Steel • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Standard Series Outside Diameter: .098"–2" Free Length: .311"–11.417"	Loops in random position, full diameter machine or cross over center except those made to DIN 2097. Loop openings approximately one wire diameter	• Plated Music Wire • Passivated Type 302/304 Stainless Steel • Passivated & Ultrasonically Cleaned Type 316 Stainless**
MIL SPEC MS24586 Outside Diameter: .120"–1" Free Length: 1"–5"	Loops inline position	• Uncoated Music Wire • Cadmium Plated Music Wire • Zinc Plated Music Wire • Passivated Type 302 Stainless Steel
Torsion Springs	Comments	Materials and Finishes
Torsion Springs Outside Diameter: .103"–2.141" Work Over Rod: .059"–1.656" Leg Length: .375"–4.25"	Available in 7 Free Positions: 90°, 120°, 180°, 210°, 270°, 300°, 360°	• Pre-coated/Plated Music Wire • Passivated Type 302/304 Stainless Steel • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Constant Force	Comments	Materials and Finishes
Constant Force Springs Load Range: .23 lbs.–16.5 lbs. Material Widths: .25"–1.25"		• Type 301 Stainless Steel
Specialty Springs	Comments	Materials and Finishes
Battery Springs	AAA, AA, C and D Battery Sizes Various Mount Types	• Nickel Coated Music Wire • Silver Coated Beryllium Copper
Continuous Length Extension	12", 24", and 36" Lengths	• Music Wire • Type 302 Stainless Steel
Spring Kits	Comments	Materials and Finishes
Compression Spring Kit Free Length Ranges: .250"–2" Outside Diameter Ranges: .120"–.720"	252 Springs - 126 Different Sizes	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc) • Passivated Type 302/304 Stainless Steel
Extension Spring Kit Free Length Ranges: .250"–5" Outside Diameter Ranges: .063"–.750"	186 Springs - 93 Different Sizes	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc) • Passivated Type 302/304 Stainless Steel
Instrument Spring Kit Free Length Ranges: .125"–1.25" Outside Diameter Ranges: .057"–.360"	216 Springs - 108 Different Sizes Includes Compression, Extension & Torsion	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc)

Custom Springs, Wire Forms, Stampings and Fourslide Parts

Lee Spring Offers Support for Every Stage of Custom Design, Manufacturing and Distribution

- Application/concurrent engineering staff
- Regulatory expertise including RoHS, REACH and DFARS
- Proof of concept methodologies
- CAD assisted product design, drawing and modeling
- In-house prototype production services for rapid turnaround
- Global supply chain network for both production and distribution
- Blanket agreement and consignment inventory management capabilities
- Short and long production run capabilities
- In-house tooling production including EDM
- Proprietary integrated quality control system
- Extensive experience working with Aerospace/Military specifications (AS9100), automotive specifications (TS16949) and FDA Trial Support (21 CFR Part 820)
- ISO 9001 registered quality management system



From Start to Finish, Lee Spring has the Custom Capabilities You Need!

Spring Types and Dimensions		
Compression Springs	Outside Diameter: 0.010" – 5.75"/0.25 mm – 146.1 mm	Wire Diameter: 0.002" – 0.625"/0.05 mm – 15.88 mm
Extension Springs	Outside Diameter: 0.010" – 5.75"/0.25 mm – 146.1 mm	Wire Diameter: 0.002" – 0.625"/0.05 mm – 15.88 mm
Torsion Springs	Outside Diameter: 0.010" – 5.75"/0.25 mm – 146.1 mm	Wire Diameter: 0.002" – 0.625"/0.05 mm – 15.88 mm
Wave Springs	Outside Diameter: 0.210" – 5.000"/5.33 mm – 127.0 mm	Inside Diameter: 0.150" – 4.54"/3.81 mm – 115.32 mm
Constant Force	Min. Outside Diameter: 0.340"/8.636 mm Min Length: 11.80"/299.72 mm	Inside Diameter: 0.280" – 1.97"/7.11 mm – 50.04 mm
Wire Forms	Wire Diameters: 0.010" – 0.24" /0.25 mm – 6 mm	Maximum Finished Length: 60"/ 1524 mm
Stampings	Strip Width: up to 3" / 76.20 mm	Strip Thickness: 0.005 to 0.062" /0.13mm – 1.57 mm
Fourslide Parts	Strip Width: 0.010" – 0.500"/0.25 mm – 12.70 mm Strip Thickness: 0.003" – 0.125"/ 0.08 mm – 3.18 mm	Wire Diameter: 0.005" – 0.187"/ 0.13 mm – 4.75 mm

Distinct Production Capabilities including: Plastic Compression, Drawbar, Cone, Double Torsion, Specialty Extension and more.

Materials	
• Beryllium Copper	• Inconel®§
• Brass	• Monel®§
• Carbon Steel, Hard Drawn	• Music Wire
• Carbon Steel, Oil Tempered	• Phosphor Bronze
• Chrome Silicon, Oil Tempered	• Plastic Composites
• Chrome Vanadium, Oil Tempered	• Stainless Steel, 300 Series
• Elgiloy®*	• Stainless Steel, 17-7
• Hastelloy®**	• Stainless Steel, 316, 316L

Inquire regarding additional materials.

* Elgiloy is a trademark of Elgiloy Ltd. Partnership

** Hastelloy is a registered trademark of Haynes International Inc.

§ Inconel & Monel are registered trademarks of Special Metals Corporation.

Secondary Operations, Finishing and Services	
• Assembly	• Passivation
• Color Coding	• Powder Coating
• Electropolishing	• Shot Peening
• Grinding	• Spring Setting
• Heat Treating	• Plating: Nickel, Zinc, Cadmium
• Looping	• Special Finishes (e.g., Black Oxide)



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