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* Ultem is a registered trademark of SABIC Innovative Plastics IP BV.

** Type 316 Stainless Steel Stock option only available on inch compression stock springs

§ Elgiloy is a trademark of Elgiloy Ltd. Partnership. Elgiloy may be substituted with equivalent cobalt alloy at Lee Spring's discretion.



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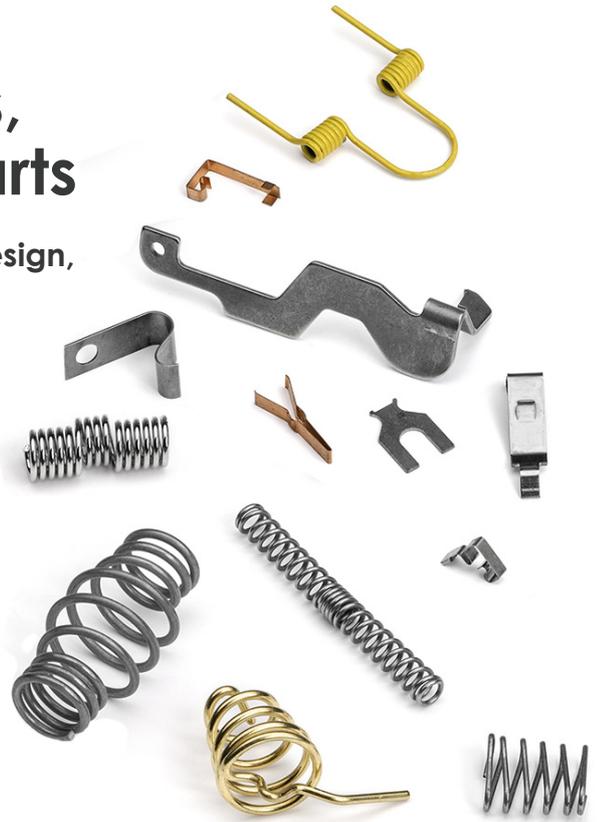
Compression Springs	Comments	Materials and Finishes
 Bantam™ Mini Series Free Length: 1.00mm–15.88mm	Ends Not Ground	• Elgiloy® §
Instrument Series Free Length: 1.00mm–53.00mm	Ends Square, Not Ground	• Pre-coated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Lite Pressure™ Series Free Length: 7.95mm–152.40mm	Ends Square, Not Ground	• Passivated & Ultrasonically Cleaned Type 316 Stainless**
Standard Series Free Length: 4.40mm–290.0mm	Squared and Ground Ends	• Plated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Heavy Duty Series Free Length: 22.23mm–152.4mm	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: 6.35mm–50.80mm	Squared and Ground Ends Shot-Peened and Pre-Set	• Passivated Type 17-7 PH Stainless Steel
Heavy Duty Die Springs Free Length: 25.40mm–304.8mm	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: 9.53mm–31.75mm	Available in 6 Color-Coded Strengths	• Ultem* Resin
REDUX™ Wave Springs	Comments	Materials and Finishes
 REDUX™ Wave Compression Springs Outside Diameter: 5.33mm–43.36mm Free Height: 1.52mm–50.80mm		• Passivated Type 17-7 PH Stainless Steel
Belleville Washers	Comments	Materials and Finishes
 Belleville Washers Outside Diameter: 4.78mm–95.25mm Free Height: 0.36mm–7.14mm		• Passivated 300 Series Stainless Steel
Extension Springs	Comments	Materials and Finishes
 Instrument Series Outside Diameter: 1.60mm–4.00mm Free Length: 6.35mm–30.00mm	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
Standard Series Outside Diameter: 2.50mm–50.80mm Free Length: 7.90mm–290.0mm	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
Torsion Springs	Comments	Materials and Finishes
 Torsion Springs Outside Diameter: 2.62mm–54.37mm Work Over Rod: 1.50mm–42.07mm Leg Length: 9.53mm–108.0mm	Available in 7 Free Positions: 90°, 120°, 180°, 210°, 270°, 300°, 360°	• Plated Music Wire • Passivated Stainless Steel Type 302/304
Constant Force	Comments	Materials and Finishes
 Constant Force Springs Load Range: .10kg–7.48kg Material Widths: 6.35mm–31.75mm		• 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	305mm, 610mm, and 914mm Lengths	• Music Wire • Type 302 Stainless Steel
Spring Kits	Comments	Materials and Finishes
Compression Spring Kit Free Length Ranges: 6.35mm–50.80mm Outside Diameter Ranges: 3.05mm–18.29mm	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: 6.35mm–127.0mm Outside Diameter Ranges: 1.60mm–19.05mm	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: 3.18mm–31.75mm Outside Diameter Ranges: 1.45mm–9.14mm	216 Springs - 108 Different Sizes Includes Compression, Extension & Torsion	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc)
Torsion Spring Kit Body Length Ranges: 2.40mm - 22.60mm Outside Diameter Ranges: 4.75mm - 21.40mm	74 Springs - 37 Different Sizes	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc) • Passivated Type 302/304 Stainless Steel

1607-LCUEKENG

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 and REACH
- 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) and automotive specifications (TS16949)
- ISO 9001 registered quality management system



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

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

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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