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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 stock springs

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










# Stock Springs In-Stock, Ready to Ship

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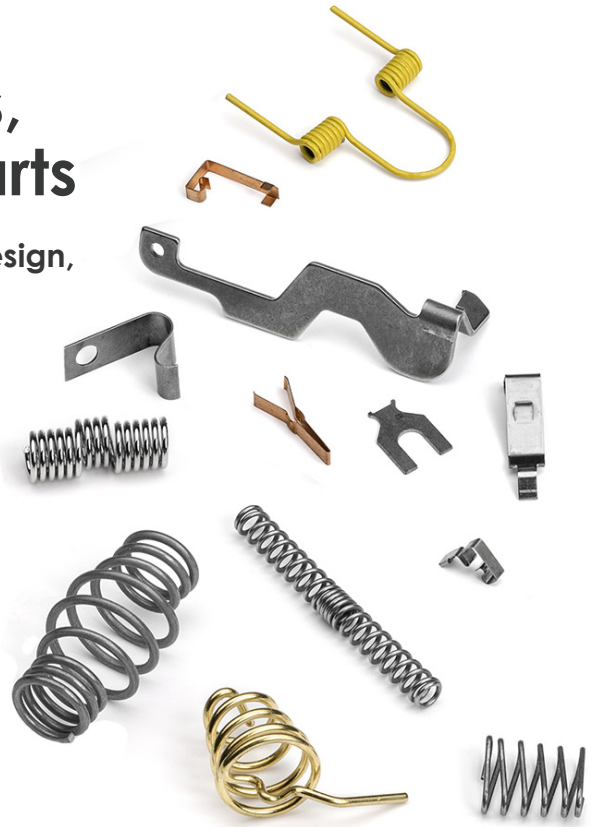
Compression Springs	Comments	Materials and Finishes
 <b>Bantam™ Mini Series</b> <i>Free Length: 1.00mm–15.88mm</i>	Ends Not Ground	• Elgiloy®§
<b>Instrument Series</b> <i>Free Length: 1.00mm–53.00mm</i>	Ends Square, Not Ground	• Pre-coated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
<b>Lite Pressure™ Series</b> <i>Free Length: 7.95mm–152.40mm</i>	Ends Square, Not Ground	• Passivated & Ultrasonically Cleaned Type 316 Stainless**
<b>Standard Series</b> <i>Free Length: 4.40mm–290.0mm</i>	Squared and Ground Ends	• Plated Music Wire • Passivated Type 302/304 Stainless • Passivated & Ultrasonically Cleaned Type 316 Stainless**
<b>Heavy Duty Series</b> <i>Free Length: 22.23mm–152.4mm</i>	Squared and Ground Ends Shot-Peened and Pre-Set	• Plated Music Wire/Oil-Tempered Wire • Passivated Type 302/304 Stainless
<b>High Pressure Series</b> <i>Free Length: 6.35mm–101.6mm</i>	Squared and Ground Ends Shot-Peened and Pre-Set	• Passivated Type 17-7 PH Stainless Steel
<b>HEFTY™ Die Springs</b> <i>Free Length: 25.40mm–304.8mm</i>	Squared and Ground Ends Shot-Peened and Pre-Set Powder Coated Five color coded versions in various strengths	• Music Wire/Oil-Tempered Chrome Silicon
<b>LeeP™ Plastic Composite Series</b> <i>Free Length: 9.53mm–31.75mm</i>	Available in Color-Coded Strengths	• Ultem* Resin
REDUX™ Wave Springs	Comments	Materials and Finishes
 <b>REDUX™ Wave Compression Springs</b> <i>Outside Diameter: 5.33mm–43.36mm</i> <i>Free Height: 1.52mm–50.80mm</i>		• Passivated Type 17-7 PH Stainless Steel
Belleville Washers	Comments	Materials and Finishes
 <b>Belleville Washers</b> <i>Outside Diameter: 4.78mm–95.25mm</i> <i>Inside Diameter: 0.36mm–7.14mm</i>		• Passivated 300 Series Stainless Steel
Extension Springs	Comments	Materials and Finishes
 <b>Instrument Series</b> <i>Outside Diameter: 1.60mm–4.00mm</i> <i>Free Length: 6.35mm–30.00mm</i>	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**
<b>Standard Series</b> <i>Outside Diameter: 2.50mm–50.80mm</i> <i>Free Length: 7.90mm–290.0mm</i>	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**
Torsion Springs	Comments	Materials and Finishes
 <b>Torsion Springs</b> <i>Outside Diameter: 2.62mm–54.37mm</i> <i>Work Over Rod: 1.50mm–42.07mm</i> <i>Leg Length: 9.53mm–108.0mm</i>	Available in 7 Free Positions: 90°, 120°, 180°, 210°, 270°, 300°, 360°	• Pre-coated/Plated Music Wire • Passivated Stainless Steel Type 302/304 • Passivated & Ultrasonically Cleaned Type 316 Stainless**
Constant Force	Comments	Materials and Finishes
 <b>Constant Force Springs</b> <i>Load Range: .10kg–7.48kg</i> <i>Material Widths: 6.35mm–31.75mm</i>		• Type 301 Stainless Steel
Specialty Springs	Comments	Materials and Finishes
 <b>Battery Springs</b>	AAA, AA, C and D Battery Sizes Various Mount Types	• Nickel Coated Music Wire • Silver Coated Beryllium Copper
<b>Continuous Length Extension</b>	305mm, 610mm, and 914mm Lengths	• Music Wire • Type 302 Stainless Steel
Spring Kits	Comments	Materials and Finishes
<b>Compression Spring Kit</b> <i>Free Length Ranges: 6.35mm–50.80mm</i> <i>Outside Diameter Ranges: 3.05mm–18.29mm</i>	252 Springs - 126 Different Sizes	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc) • Passivated Type 302/304 Stainless Steel
<b>Extension Spring Kit</b> <i>Free Length Ranges: 6.35mm–127.0mm</i> <i>Outside Diameter Ranges: 1.60mm–19.05mm</i>	186 Springs - 93 Different Sizes	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc) • Passivated Type 302/304 Stainless Steel
<b>Instrument Spring Kit</b> <i>Free Length Ranges: 3.18mm–31.75mm</i> <i>Outside Diameter Ranges: 1.45mm–9.14mm</i>	216 Springs - 108 Different Sizes Includes Compression, Extension & Torsion	• Music Wire - Zinc Plated (or pre-coated Tin/Zinc)

1901-LCINENG

# 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		
<b>Compression Springs</b>	<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
<b>Extension Springs</b>	<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
<b>Torsion Springs</b>	<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
<b>Wave Springs</b>	<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
<b>Constant Force</b>	<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
<b>Wire Forms</b>	<i>Wire Diameters:</i> 0.010" – 0.24" /0.25 mm – 6 mm	<i>Maximum Finished Length:</i> 60"/ 1524 mm
<b>Stampings</b>	<i>Strip Width:</i> up to 3" / 76.20 mm	<i>Strip Thickness:</i> 0.005 to 0.062" /0.13mm – 1.57 mm
<b>Fourslide Parts</b>	<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)



**Contact Us:** India and Middle East : +91 80 49376666 • india-sales@leespring.com • #21/10B, 1st Floor Konankunte Cross #182, Bommasandra Industrial Area, Hosur Main Road, Bommasandra, Bengaluru - 560099, India

**International:** USA and Canada: sales@leespring.com • UK and Ireland: sales@leespring.co.uk • Europe and Germany: verkauf@leespring.de  
Spain: ventas@leespring.es • France: ventes@leespring.fr • Asia: sales@leespring.cn • Mexico and Latin America : ventas@leespring.com

