



SPRINGFIELD SPRING & STAMPING

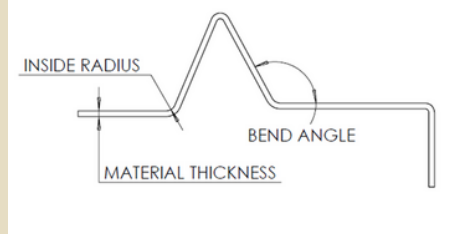
Customer DFM Guideline



DFM Guidelines

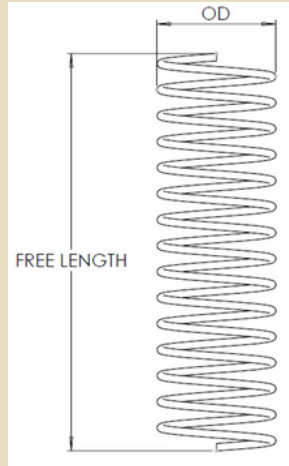
Compression Springs

- Coil ID/OD: $\sim \pm .005''$
- Free Length: $\sim \pm .035''$
- Load Tolerance: $\pm 10\%$
- Spring Index: ≥ 4



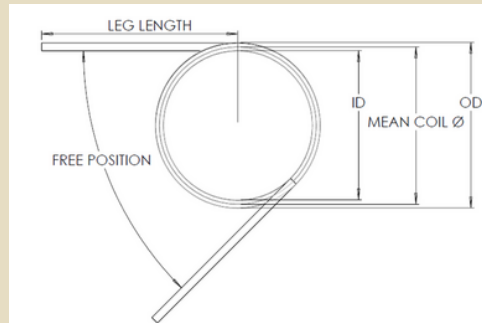
Stampings

- Material thickness: $\pm .001''$
- Material Width: $\pm .003''$ -.005''
- Linear Dimensions: $\pm .005''$ -.010'' (can increase due to complexity)
- Bend Inside Radii: Equal to or greater than material thickness.
- Bend Angles: $\pm 3^\circ$
- Linear dimensions based on a bend must correspond to bend angle tolerance.



Torsion/Extension Springs & Wireforms

- Coil OD: $\pm .008''$
- Linear Dimensions: $\pm .010''$ -.020''
- Free Angle: $\pm 5^\circ$
- Bend Angles: $\pm 3^\circ$
- Load Tolerance: $\pm 10\%$
- Linear dimensions based on a bend must correspond to bend angle tolerance.
- Spring Index: ≥ 4
- Bend Inside Radii: Equal to or greater than Wire \varnothing



Component Types

- Compression Springs
- Extension Springs
- Torsion Springs
- Magazine Springs
- Wireforms
- Air Filter Frame Clips
- Brackets & Clips

Finishes

- Phosphate w/ Oil
- Powder Coated
- Zinc (Clear and Yellow)
- Passivation (Nitric and Citric)
- Black Oxide
- Dykem Color Code
- Manganese Phosphate
- Nickel Plating



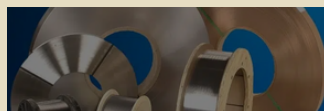
Certifications

ISO 9001 Quality Management
ISO 13485 Medical Devices
 Certified Minority Owned
 ITAR Compliant



Materials

- C1008, C1050, C1074, C1075, C1095
- 300,400, Martensite, and 17-7 Stainless Steel
- Music Wire, Rocket Wire, Missile Wire
- HDMB, OTMB, Chrome Silicon, Chrome Vanadium
- Brass, Beryllium Copper, Phos. Bronze, Aluminum
- Inconel, Hastelloy, Waspaloy
- Other materials available upon request



Sizes

- Round wire .008" (.2mm) - .185" (4.495mm) (max of .135" for coiling)
- Flat Wire / Strip Thickness .003" (.076mm) - .078" (1.98mm)
- Flat Wire / Strip Width up to 2.50" (63.5mm)
- Smaller or Larger sizes are available through our partner network!

Key Contacts

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