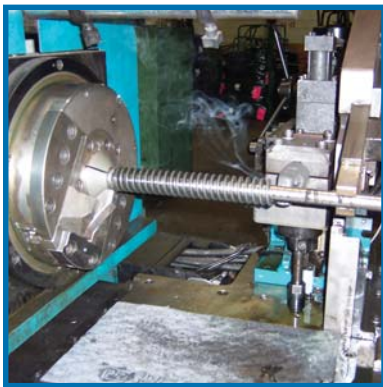


Special Heavy Duty Compression Springs

CUSTOM SPRINGS

A custom spring is any spring that has:

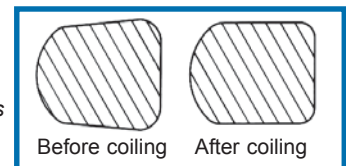
- ◆ Unique physical attributes
 - Special wire material, plating or paint
 - Custom free lengths, diameters, solid heights, rates, number of coils or custom loads at a given deflection
- ◆ Critical tolerances
- ◆ Specific inspection or certification requirements
 - Military specifications
 - 100% inspection of critical characteristics
- ◆ Statistical reports
- ◆ Computer controlled multi-point tests



MANUFACTURING CAPABILITIES

- ◆ Outside diameters from 3/8" to 3" (9.5mm to 76.2mm)
- ◆ Free length from 1/2" to 36" (12.7mm to 914.4mm)
- ◆ Round Spring wire from 0.043" to 1/2" (1.1mm to 12.7mm)
- ◆ Standard rectangular wire up to 0.375" x 0.469" (9.5mm to 11.9mm)

Modified trapezoidal cross section of rectangular wire springs changes to a "D" cross section during coiling to achieve a low stress level that means longer spring life.



COATINGS AVAILABLE

- ◆ Plain, no paint
- ◆ Oiled
- ◆ Cadmium Plate
- ◆ Dacromet®
- ◆ Electroless Nickel
- ◆ Any paint Color
- ◆ Powder Coating
- ◆ E-coat
- ◆ Zinc

SPRING SPECIALS QUOTING PROCESS

- ◆ Submit custom spring print
- ◆ Submit application information
 - Include description of application
 - Life expectations
 - Critical dimensions, tolerances, certifications required