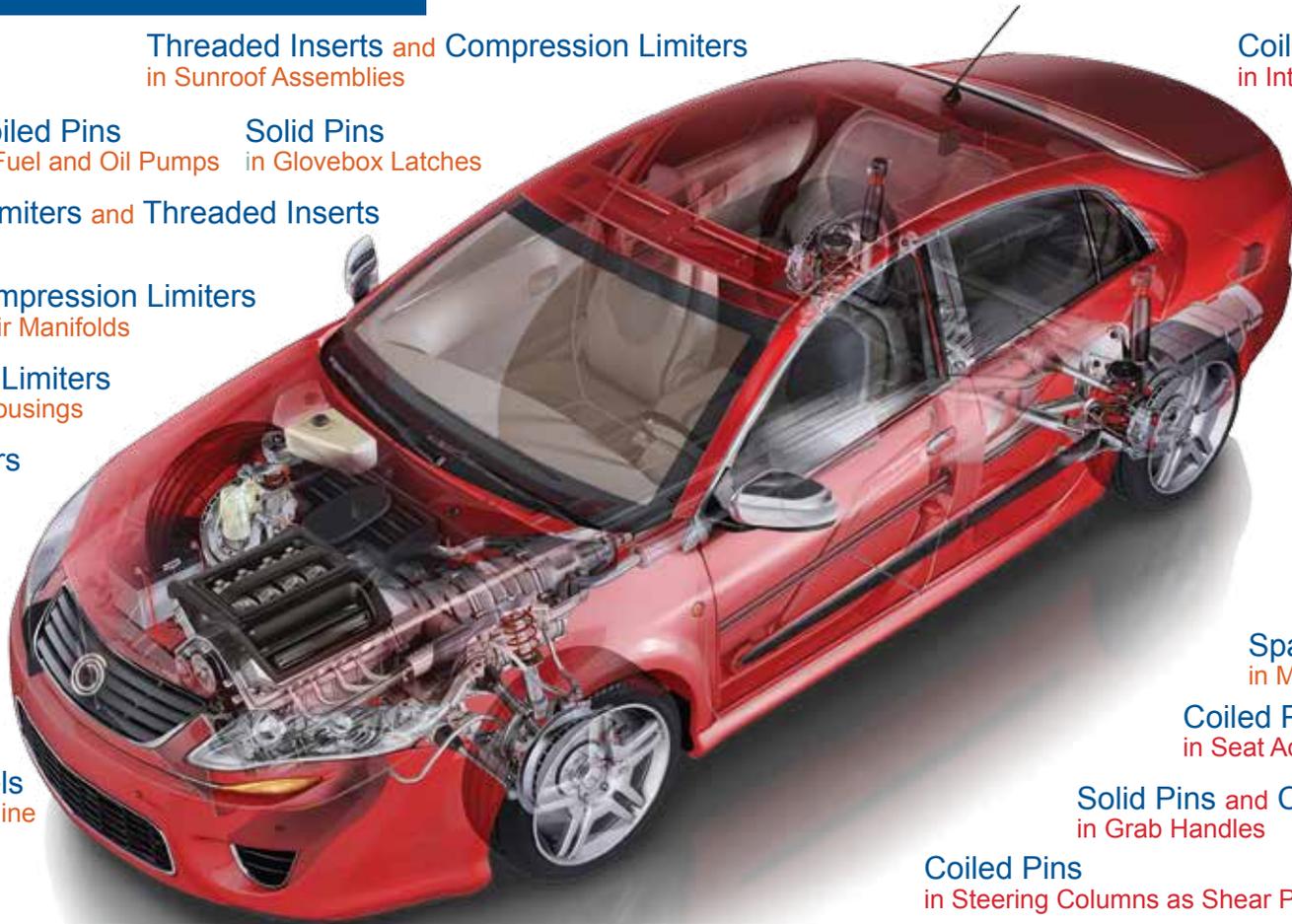




HIGH-PERFORMANCE SOLUTIONS FOR AUTOMOTIVE APPLICATIONS



Threaded Inserts and Compression Limiters
in Sunroof Assemblies

Coiled Pins and Solid Pins
in Interior Handles

Coiled Pins in Fuel and Oil Pumps
Solid Pins in Glovebox Latches

Spacers
in Jacks

Compression Limiters and Threaded Inserts
in Pedal Boxes

Coiled Pins
in Trunk Latches

Spacers in Alternators
Compression Limiters in Air Manifolds

Coiled Pins
in Gas Struts

Compression Limiters
in Thermostat Housings

Solid Pins
in Trunk 12V Sockets

Compression Limiters
in Timing Belt Covers

Coiled Pins
in "Flick" Key Fob

Spacers
in Expansion Tanks

Coiled Pins
in Drum Brake Assemblies

Dowel Bushings
in Engine Heads

Threaded Inserts
in Bumper Moldings

Compression Limiters
in Fuel Rails

Spacers
in Muffler Hanger

Ground Hollow Dowels
in Transfer Case and Engine

Coiled Pins
in Seat Adjust Mechanisms

Coiled Pins
in Ignition Coils

Solid Pins and Compression Limiters
in Grab Handles

Threaded Inserts
in Headlamp Assemblies

Coiled Pins in Steering Columns as Shear Pins
Threaded Inserts in Door Trims

Headed Coiled Pins in ABS Pumps
Sleeves in Seat Adjust Handles

Ground Hollow Dowels
in Lower Engine Block

Coiled Pins
in Manual Transmission Shift Linkage

Coiled Pins and Dowel Bushings
in Gearbox and Transfer Cases

Coiled Pins and Solid Pins
in Exterior Handles

Coiled Pins
in Automatic Transmission Shifter Housing

Coiled Pins
in Brake and Clutch Master Cylinders

Solid Pins
in Transmission Valve Body

Coiled Pins in Camshafts
Spacers in Chassis Frame Bracket

Delivering components to the automotive industry at the lowest-installed cost since 1948.



Coiled Pins

We offer the widest range of Coiled Pins to ISO 8750, ASME B18.8.2 and other standards, in various duties, materials and finishes. In addition to standard Coiled Pins, we offer special Headed, Flared, Extra Light Duty and Superflex Coiled Pins suited to your diverse assembly requirements.



Threaded Inserts

Our Heat/Ultrasonic, Press-In, Molded-In and Expansion Inserts provide performance and integrity to the assembly and fastening of all types of plastic components for demanding automotive applications.



Dowel Bushings, Spring Dowels and Ground Hollow Dowels

Hollow design permits a fastening screw or bolt to pass through the inside diameter eliminating the need to drill a separate hole. Ground Hollow Dowels are used where centerline tolerancing and precision alignment are required. They are designed to be direct replacements for standard Ground Solid Dowels per ISO 8734.



Compression Limiters

We manufacture nine standard series of Compression Limiters designed to protect the plastic components of your assembly from the compressive loads generated by the tightening of bolts. We offer a broad standard range and the ability to provide specials on demand.



Slotted Pins

SPIROL produces ISO 8752 Slotted Pins, as well as non-interlocking ASME B18.8.2 and ASME 18.8.4M Type B Slotted Pins having relatively higher shear strengths. Standards are available from stock. Specials for volume applications are available.



Solid Pins

Specifying SPIROL Solid Pins provides the lowest cost and the most responsive delivery. Tooling and raw material are available to meet your production requirements for all standard parts. Standards include SPIROL Straight Pins, Knurled Pins, Headed Pins and Headed Knurled Pins.

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Quality Certifications:
ISO/TS 16949
ISO 9001
ISO 14001

**SPIROL offers free
samples and Application
Engineering support.**

Please contact us for technical product catalogs and design guides or for a visit by your local SPIROL Applications Engineer.

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