

# SPIROL®

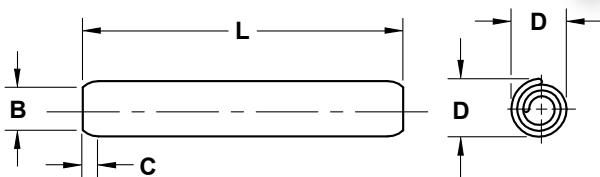
## COILED SPRING PINS FOR TRANSMISSION ASSEMBLIES

### SPIROL® Series 102 Coiled Spring Pins

Invented by **SPIROL** in 1948, Coiled Pins offer proven performance at the lowest installed cost. Coiled Pins are designed to absorb shock and vibration, and unlike other Spring Pins with slots, do not have any fatigue areas. They are available in standard and heavy duty to enable the designer to choose the optimum combination of strength, flexibility and diameter to suit different host materials and application requirements. All Series 102 Pins are 100% dimensionally controlled to provide consistency during assembly.

#### Advantages

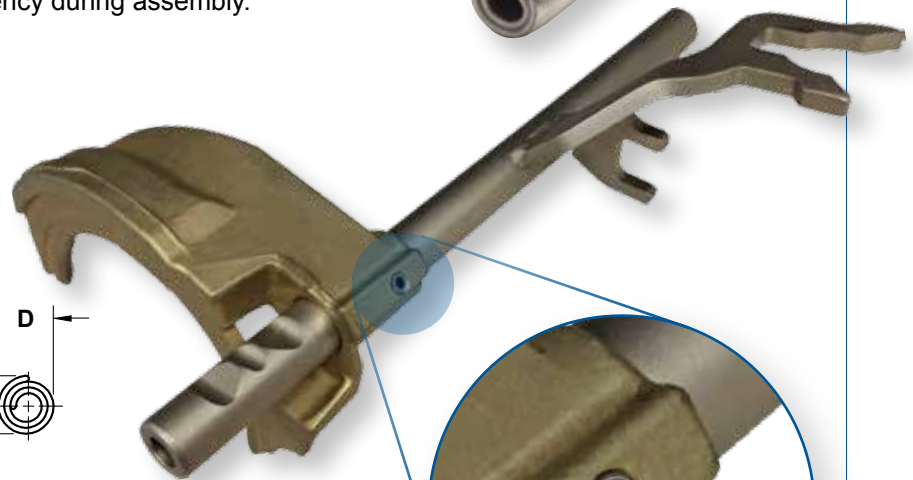
- Absorbs shock and vibration
- Non-interlocking
- Symmetrical
- 100% dimensional control
- Easy, trouble free assembly
- Ideal for automated installation
- Global supply



STANDARD  
DUTY



HEAVY  
DUTY



*Installation equipment  
and application  
engineering support  
available*

(see back for more information)

#### DIMENSIONAL DATA

		Standard Duty		Heavy Duty	
Nominal Diameter		5	6	5	6
Diameter D	Max.	5.50	6.50	5.35	6.40
	Min.	5.25	6.25	5.15	6.18
Chamfer B	Max.	4.85	5.85	4.85	5.85
	Recommended	5.12	6.15	5.12	6.15
Hole Size	Max.	5.00	6.00	5.00	6.00
	Min.				
Min Double Shear Strength kN		15	22	20	30
Material		UNS G10700 / G10740 C67S (1.1231) / C75S (1.1248)			
Finish		Plain, Oiled			
Lengths +/- 0.5		28, 30, 32, 35			

**To Order:** Product, Nominal Diameter x Length, Duty / Material / Finish, Series

**Examples:** CLDP 5 x 32 MBK SER102

CLDP 6 x 28 HBK SER102

Coiled Pins  
as Valve Body Locating Pins

Thrust Washers  
on Input and Output Shaft

Coiled Pins  
as Stop Pins in Solenoid Valves

Coiled Pins  
as Valve Body  
Retaining Pins

Coiled Pins and Slotted Pins  
in Pinning Shafts

Coiled Pins  
as Retaining Pins in Oil Control Valves

Coiled Pins  
as Stop Pins in Clutch Actuators

Coiled Pins  
in Shifter Mechanisms

Ground Hollow Dowels in  
Transmission Housing Alignment

Thrust Washers  
on Intermediate Shaft

Coiled Pins  
as Alignment Pins in  
Solenoid Body Alignment

Compression  
Limiters in Fastening  
Solenoid Body

Compression Limiters  
in Electrical Harnesses

Dowel Bushings  
in Oil Pump Assembly

Model CR Pin Inserter  
for installing Coiled Pins  
into Electrical Connectors

Dowel Bushings in  
Clutch Actuator Alignment

Model CR Pin Inserter for installing  
Coiled Pins into Solenoid Valves

Thrust Washers  
on Front and Rear Servos

Compression Limiters  
in Shifter Mounts

Threaded Inserts  
in Shifter Bases

Dowel Bushings in  
Transmission Body Mount



SPIROL Model PM  
Manual Pinning Machine



SPIROL Model PR  
Semi-Automatic Pinning Machine

### TOTAL ASSEMBLY SOLUTIONS

Manual, semi-automatic, to fully automatic equipment designed and manufactured by **SPIROL**. Custom fixtures for your application requirements are available. Options such as rotary index tables, pin sensing, force monitoring, and drilling & pinning combinations can be added for enhanced productivity and heightened error-proofing.

### APPLICATION ENGINEERING SUPPORT

Through partnering with companies in the design stage, **SPIROL** not only helps design the engineered component used for fastening and joining, but we also make the critical recommendations for the interface between our product and your assembly.

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