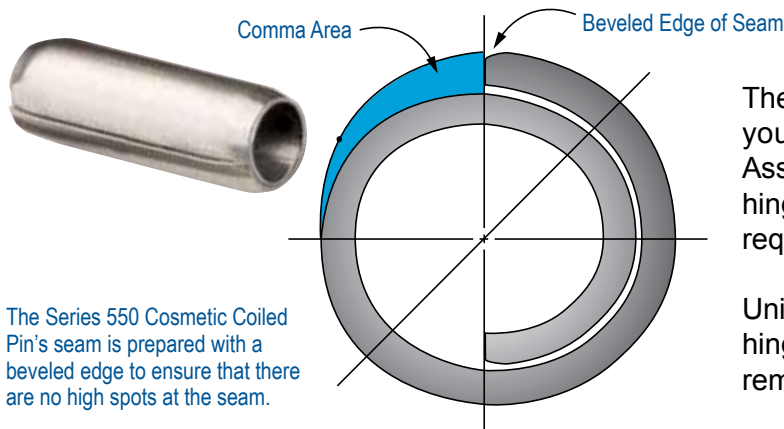


SPIROL®

COILED SPRING PINS FOR COSMETIC CASE HINGES

SPIROL® Series 550 Cosmetic Coiled Pins

The unique flexibility of the Series 550 Cosmetic Coiled Pin makes it the ideal hinge pin for compact cases.



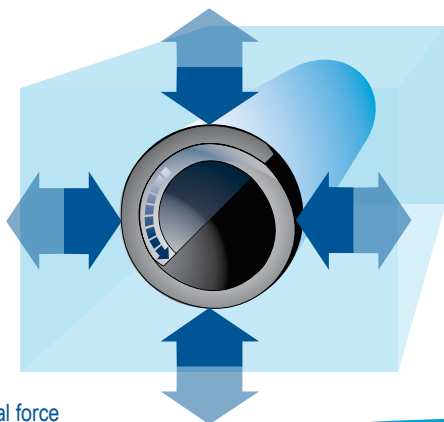
The Series 550 Cosmetic Coiled Pin's seam is prepared with a beveled edge to ensure that there are no high spots at the seam.

The use of a Cosmetic Coiled Pin will simplify your design and manufacturing process. Assembly is easier and less expensive, and the hinge performance will exceed swing torque requirements.

Uniform radial spring force results in controlled hinge movement and a hinge quality that remains consistent over time.

Controlled hinge movement is achieved with wider tolerances and lower molding costs than with a solid pin or cut wire.

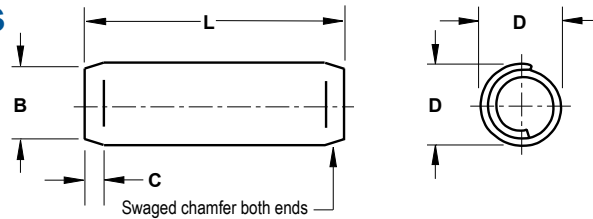
Low insertion force and compression of the pin during installation minimize hinge stress and scrap.



Constant radial force

Contact **SPIROL** for design assistance:
www.spirol.com/s/cosmeticdesign/

Specifications



Nominal Diameter	Dim. "D" Pin Diameter		Dim. "B" Chamfer Diameter	Dim. "C" Chamfer Length	Recommended Hole Diameter		Dim. "L" Standard Lengths (Tolerance = ± 0.25)				
	Min.	Max.	Max.	(Ref.)	Min.	Max.	8	10	12	14	16
1.2	1.27	1.35	1.15	0.40	1.19	1.22					
1.5	1.60	1.68	1.40	0.50	1.49	1.53					

Standard Material Nickel Stainless Steel SAE 302/304, 1.4310 (18-8) **Standard Finish** Plain - Oil Free

Design Guidelines

The use of a Cosmetic Coiled Pin will simplify design as misalignment of the inner and outer holes to provide friction is no longer necessary. Intentional misalignment is difficult to control in production and induces stress in the hinge area causing cracking and pin fallout.

- Misalignment should not exceed 0.05mm.
- 60% or more pin length retained by the inner hole.
- Minimum bearing surface in either hole should exceed three times the diameter of the pin.
- The inner hole depth should be at least 0.35mm deeper than the retained pin length to prevent breaks at assembly.
- The holes in the cover and the base should be precision matched to achieve maximum friction swing torque.

Pin Installation Technology

The **Model HC, Horizontal, Dual Pin Inserter** was developed specifically for installing Series 550 Cosmetic Coiled Pins into plastic hinges.

This machine dramatically increases production efficiency with minimal operator training and effort.



SPIROL Application Engineers will review your application needs and work with you to recommend the optimum solution. One way to start the process is to visit our **Optimal Application Engineering** portal at **SPIROL.com**.

Technical Centers

Americas

SPIROL International Corporation
30 Rock Avenue
Danielson, Connecticut 06239 U.S.A.
Tel. +1 860 774 8571
Fax. +1 860 774 2048

SPIROL Shim Division
321 Remington Road
Stow, Ohio 44224 U.S.A.
Tel. +1 330 920 3655
Fax. +1 330 920 3659

SPIROL West

1950 Compton Avenue, Suite 112
Corona, California 92881 U.S.A.
Tel. +1 951 273 5900
Fax. +1 951 273 5907

SPIROL Canada

3103 St. Etienne Boulevard
Windsor, Ontario N8W 5B1 Canada
Tel. +1 519 974 3334
Fax. +1 519 974 6550

SPIROL Mexico

Carretera a Laredo KM 16.5 Interior E
Col. Moisés Saenz
Apodaca, N.L. 66613 Mexico
Tel. +52 81 8385 4390
Fax. +52 81 8385 4391

SPIROL Brazil

Rua Mafalda Barnabé Soliane, 134
Comercial Vitória Martini, Distrito Industrial
CEP 13347-610, Indaiatuba, SP, Brazil
Tel. +55 19 3936 2701
Fax. +55 19 3936 7121

Europe

SPIROL France

Cité de l'Automobile ZAC Croix Blandin
18 Rue Léna Bernstein
51100 Reims, France
Tel. +33 3 26 36 31 42
Fax. +33 3 26 09 19 76

SPIROL United Kingdom

17 Princewood Road
Corby, Northants
NN17 4ET United Kingdom
Tel. +44 1536 444800
Fax. +44 1536 203415

SPIROL Germany

Ottostr. 4
80333 Munich, Germany
Tel. +49 89 4 111 905 71
Fax. +49 89 4 111 905 72

SPIROL Spain

08940 Cornellà de Llobregat
Barcelona, Spain
Tel. +34 93 193 05 32
Fax. +34 93 193 25 43

SPIROL Czech Republic

Sokola Tůmy 743/16
Ostrava-Mariánské Hory 70900
Czech Republic
Tel/Fax. +420 417 537 979

SPIROL Poland

ul. M. Skłodowskiej-Curie 7E / 2
56-400, Oleśnica, Poland
Tel. +48 71 399 44 55

Asia Pacific

SPIROL Asia Headquarters

1st Floor, Building 22, Plot D9, District D
No. 122 HeDan Road
Wai Gao Qiao Free Trade Zone
Shanghai, China 200131
Tel. +86 21 5046 1451
Fax. +86 21 5046 1540

SPIROL Korea

160-5 Seokchon-Dong
Songpa-gu, Seoul, 138-844, Korea
Tel. +86 (0) 21 5046-1451
Fax. +86 (0) 21 5046-1540