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

SPIROL® Series 550 Cosmetic Coiled Pins

Contact SPIROL for design assistance: www.spirol.com/s/cosmeticdesign/
SERIES 550  
COSMETIC  
COILED PINS

Specifications

![Diagram of Cosmetic Coiled Pin]

- **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.

**Specifications**

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

**Standard Finish** Plain - Oil Free

**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 Bamabé 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 Princedwood 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 Cornellá 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**
- 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  
  180-5 Seokchon-Dong  
  Songpa-gu, Seoul, 136-844, Korea  
  Tel. +86 (0) 21 5046-1451  
  Fax. +86 (0) 21 5046-1540

**Pacific**

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.

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e-mail: info@spirol.com