

SPIROL®

PIN INSTALLATION TECHNOLOGY

Model HC Horizontal, Dual Pin Inserter

This lightweight, portable, horizontal Pin Inserter is designed to install **SPIROL Series 550 Coiled Pins** into plastic hinges. The cylinder/driving head modules can be moved in and out with ease, and fixture changes are simple which enables quick conversion from one assembly to another. This machine quickly and effectively delivers the pins automatically to the installation site eliminating the need for the operator to touch them during the entire assembly operation. This machine dramatically increases production efficiency with minimal operator training and effort.

Design Features/Benefits:

- Precise:** - Fine pin depth adjustment
- Poka-Yoke Design:** - Pin presence sensing
- Built to Last:** - Hardened pin guide bushings
- Tooled stainless steel vibratory feeder bowl
- Efficient:** - Quick clear rotary pin shuttles
- High speed steel insertion rams with integral part sensing actuators
- Versatile:** - Can easily be changed over to install pins in round or rectangular cases
- Quick change pin shuttle allows the operator to change pin sizes with ease
- Low Maintenance:** - Non-lubricating pneumatics



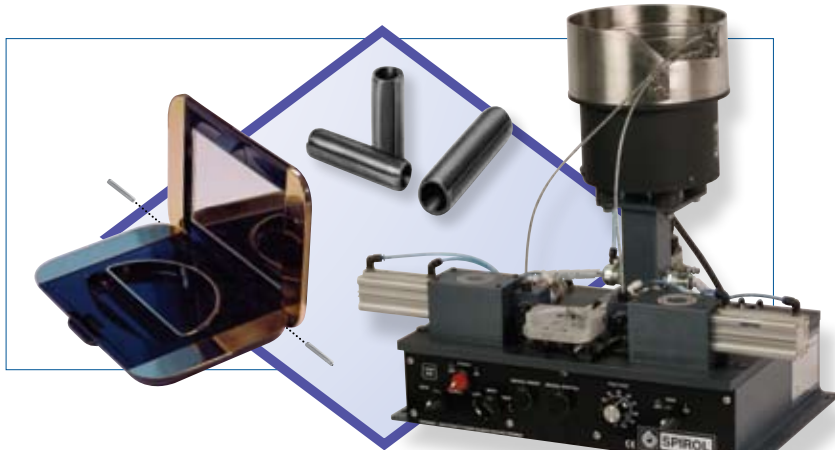
SPIROL® Series 550
Coiled Pins

SPIROL® Model HC
Change-over Kit

Optional alignment fixtures – fixed position or linear slide style – available.

SPIROL®

Application Engineering



Application:

A world-class plastic molder was mass producing a cosmetic case. The lid and base were hinged together by two pieces of solid cut wire. The installation equipment was worn, the process was slow, and the case was cracking and squeaking when it was opened and closed. The lids also became “floppy” after repeated opening and closing, and they failed to stay open. To remain competitive, the molder needed to decrease the assembly time and eliminate the quality issues of cracking, squeaking, and flopping. They also wanted to be able easily convert the assembly machine to handle a wide number of case styles and shapes.

Solution:

SPIROL's Application Engineers recommended a total assembly solution. To correct the problems with the quality of the case, a **SPIROL Series 550 Extra Light Duty Coiled Pin** replaced the cut wire as the hinge pin. The Coiled Pin's inherent flexibility eliminated the cracking of the plastic, and its radial expansion resulted in the lid remaining in any position desired by the user with no noise throughout its entire arc. These pins are installed with a **SPIROL standard Model HC Dual Pin Inserter**. This unit can install all standard **Series 550 Coiled Pins** with minor change-over and adjustments. It also accommodates nearly any case configuration by moving the insertion heads in and out and changing the cavity tooling in the fixture unit.



Challenge Us!

SPIROL Application Engineers will review your application needs and work with your design team to recommend the best solution. One way to start the process is to select Installation Systems in our Optimal Application Engineering portal at www.SPIROL.com.

U.S.A. **Spirol International Corporation**
30 Rock Avenue
Danielson, Connecticut 06239
Tel. 860.774.8571 Fax 860.774.2048

Spirol West Inc.
1950 Compton Avenue, Unit 111
Corona, California 92881-6471
Tel. 951.273.5900 Fax 951.273.5907

Spirol International Corporation
Shim Division
321 Remington Road
Stow, Ohio 44224
Tel. 330.920.3655 Fax 330.920.3659

Spirol Distribution
30 Rock Avenue
Danielson, Connecticut 06239
Tel. 800.321.4679 Fax 860.774.0487
(For Distributor Customers)

Canada **Spirol Industries, Ltd.**
3103 St. Etienne Boulevard
Windsor, Ontario
Canada N8W 5B1
Tel. 519.974.3334 Fax 519.974.6550

Mexico **Spirol México, S.A. de C.V.**
Carretera a Laredo KM 16.5 Interior E
Col. Moisés Saenz
Apodaca, N.L. 66613 México
ó Apdo. Postal 151 de Apodaca, N.L.
Tel. (81) 8385 4390 Fax (81) 8385 4391

Europe **Spirol Industries, Ltd.**
Princewood Road
Corby, Northants
England NN17 4ET
Tel. 44 (0) 1536 444800
Fax 44 (0) 1536 203415
(For Distributor Customers)
Tel. 44 (0) 8003 890034

Spirol SAS
Rue Henri Rol Tanguy
Z.A. Les Naux
51450 Bétheny
France
Tel. 33 (0)3 26 36 31 42
Fax 33 (0)3 26 09 19 76

Spirol GmbH
Briener Strasse 9
80333 Munich
Germany
Tel. 49 (0) 931 454 670 74
Fax. 49 (0) 931 454 670 75

Asia Pacific **Spirol International Engineered**
Fastener Trading Co. Ltd.
No. 11 Xi Ya Rd. North
Section A, 1F, Building 14
Wai Gao Qiao Free Trade Zone
Shanghai, China 200131
Tel. (8621) 5046 1451/1452
Fax (8621) 5046 1540

e-mail: info@spirol.com

SPIROL.com

Request a free **SPIROL Automation CD-ROM** that demonstrates the Pin Inserters in operation, presents their versatility, and lists cost-effective options available for your application.