

SPIROL®

PIN INSTALLATION TECHNOLOGY

Model HC Horizontal, Dual Pin Inserter

This lightweight, portable, horizontal Pin Inserter is designed to install **SPIROL Series 550 Cosmetic 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
Cosmetic Coiled Pins

SPIROL® Model HC
Change-over Kit

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





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.



SPIROL offers complimentary Application Engineering support. We will assist on new designs as well as help resolve issues, and recommend cost savings on existing designs. Let us help by visiting **Application Engineering Services** on **SPIROL.co.uk**.

Technical Centres

Europe

SPIROL United Kingdom
+44 (0) 1536 444800
info-uk@spirol.com

SPIROL Ford
+44 (0) 1914 540141
contactus@ford-aerospace.com

SPIROL France
+33 (0) 3 26 36 31 42
info-fr@spirol.com

SPIROL Germany
+49 (0) 89 4 111 905 71
info-de@spirol.com

SPIROL Spain
+34 932 71 64 28
info-ib@spirol.com

SPIROL Czech Republic
+420 226 218 935
info-cz@spirol.com

SPIROL Poland
+48 510 039 345
info-pl@spirol.com

Americas

SPIROL Interanational Corporation
+1 860 774 8571
info@spirol.com

SPIROL Shim Division
+1 330 920 3655
info@spirol.com

SPIROL Canada
+1 519 974 3334
info-ca@spirol.com

SPIROL Mexico
+52 81 8385 4390
info-mx@spirol.com

SPIROL Brazil
+55 19 3936 2701
info-br@spirol.com

Asia Pacific

SPIROL China
+86 (0) 21 5046-1451
info-cn@spirol.com

SPIROL Malaysia
+60 77 063 960
info-my@spirol.com

SPIROL Korea
+82 (0) 10 9429 1451
info-kr@spirol.com