

# SPIROL<sup>®</sup>

INSERT INSTALLATION TECHNOLOGY





# Cost effective, flexible solutions for your insert installation requirements

## Five Step Process for Success

### STEP 1 We determine your assembly objectives and prepare a proposal

**SPIROL** assesses your needs in areas related to the application:

- Performance requirements
- Special control/safety requirements
- Critical component specifications
- Quality objectives
- Production objectives

Based on your requirements, **SPIROL** develops the assembly concept best suited to meet your objectives. A detailed proposal is submitted with a fixed price and a performance guarantee.

### STEP 2 We design an installation system based on your defined objectives

Upon receipt of your order, the assembly concept is reviewed and assigned to a **SPIROL** Project Engineer. A detailed layout is developed, components are specified and engineering drawings are prepared. A control package is carefully developed to ensure the system is interactive and fail-safe.

Our standardized, time-tested, modular designs are robust, reliable and easily adjustable – allowing for customization to meet the specific needs of your application. This translates into faster delivery, greater reliability, and the best value for equipment of comparable quality.

### STEP 3 A fixture is designed to hold and align the components during installation

**SPIROL** specializes in custom part-holding devices called **fixtures**.

Fixturing, which includes aligning and holding your components accurately and firmly during installation, is a critical element to the performance of your installation equipment.

**SPIROL** reviews the detailed layout with you to ensure that all aspects of the machine meet your approval.

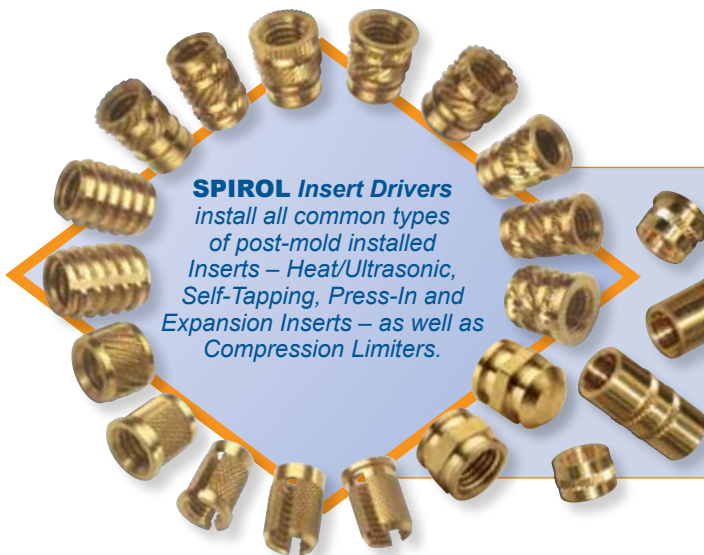
### STEP 4 We build, test, install, and certify the machine – including educating operators and maintenance personnel

The assembly of the equipment is closely monitored by the **SPIROL** Project Engineer. The equipment is thoroughly tested at our plant.

As part of our standard procedure, **SPIROL** will send a qualified technician to your facility to set-up the machine and train your operators on the use and maintenance of the equipment. Only after you are satisfied with the quality and performance of the equipment is it turned over to you.

### STEP 5 We provide total customer satisfaction

We have a long history of providing installation equipment of the highest quality and reliability. We are so confident in our equipment that **SPIROL offers the only performance warranty in the industry.**



**SPIROL Insert Drivers** install all common types of post-mold installed Inserts – Heat/Ultrasonic, Self-Tapping, Press-In and Expansion Inserts – as well as Compression Limiters.

*Our objective is to enhance your competitiveness through product quality, increased productivity and reduced manufacturing cost. **SPIROL** remains part of the process until the machine is meeting your objectives and paying for itself.*

# Quality installation with enhanced productivity

*Manual, semi-automatic and fully automated solutions available*

*Insert performance is a direct result of installation quality*



**Model HP Pneumatic Heat Insert Driver**

Designed to install virtually any type of Heat/Ultrasonic style Insert



Shown without safety guard

**Model HA Automatic Heat Insert Driver**

Designed to automatically install virtually any type of Heat/Ultrasonic style Insert



**Model TA Automatic Threaded Insert Driver**

Designed to automatically install Self-Tapping Threaded Inserts

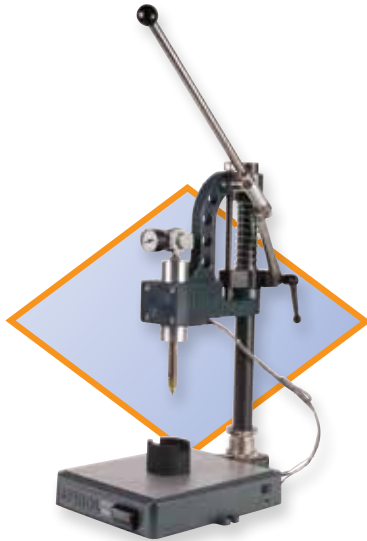
Options such as pick and place systems, rotary and linear part indexing, part and Insert presence sensing, and torque monitoring for Self-Tapping Insert installation can be added for enhanced productivity, heightened process control and error-proofing.

*Dual and triple versions of most semi-automatic models are readily available to suit your assembly objectives.*



## Model PH Platen-style Multi-tip Heat Insert Driver

Designed to install virtually any type of Heat/Ultrasonic style insert — up to 20 Inserts simultaneously on different levels



## Model HM Manual Heat Insert Driver

Manual drivers are extremely versatile and easily adjustable to accommodate a myriad of applications

**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](http://www.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

e-mail: [info@spirol.com](mailto:info@spirol.com)