

SPIROL[®]

INSERT INSTALLATION TECHNOLOGY



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 standardised, time-tested, modular designs are robust, reliable and easily adjustable – allowing for customisation 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 specialises 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

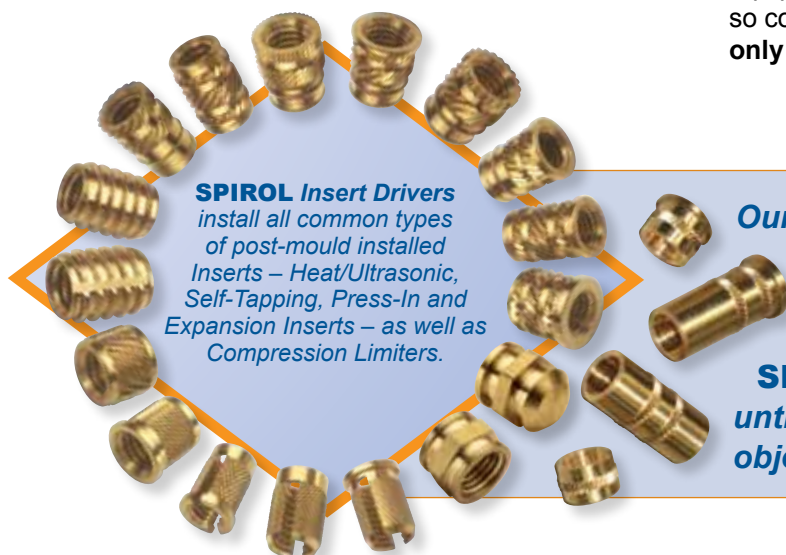
The assembly of the equipment is closely monitored by the **SPIROL** Project Engineer. The equipment is thoroughly tested at our plant.

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-mould 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

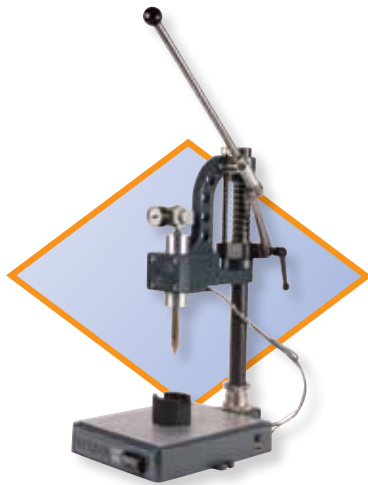
Options such as pick and place systems, rotary and linear part indexing, part and Insert presence sensing, and torque monitoring for Self-Tapping Insert installation can be added for enhanced productivity, heightened process control and error-proofing.

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.

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