COMPRESSION LIMITER INSTALLATION TECHNOLOGY

Model CP Pneumatic Compression Limiter Installation Machine

The Model CP Pneumatic Compression Limiter Installation Machine provides an accurate and consistent method to install virtually any Compression Limiter into plastic applications requiring up to 4.5kN (1000 lbs). Install just one Compression Limiter into one assembly, or several Limiters across multiple assemblies simultaneously for increased productivity. The Model CP's quick-change tooling creates the flexibility to adapt the platform to a variety of products within seconds. The Model CP has a 230mm x 280mm (9"x11") work area and is built on a rigid steel frame with high-precision shafting and linear bearings resulting in smooth operation, precise positioning, repeatability, and durability.

Design Features/Benefits:

Precise:	 Individually adjustable tips for precise positioning Doweled component location for repeatable alignment Pneumatic operation to control insertion force and speed Full stroke detection to validate fastener installation
Built to Last:	 Cushioned cylinder return stroke reduces noise while protecting components from shock Rigid steel C-frame design accommodates high loads, and precise alignment Hardened tool steel anvils for durability
Versatile:	 Quick-change tooling to easily adapt to a variety of applications Installs Compression Limiters of various sizes and shapes
Safe:	 Dual opto-touch activation with safety relay and fixed guarding protects the operator from pinch points Ergonomic part loading
Easy to Use:	 Multi-color LED fault Indicator for fast visual indication and problem resolution Optional sensors verify part installation at all locations ensuring product quality



R

The Model CP can install any number of Compression Limiters that fit within the work area.

Optional enhancements include: HMI, Vision Sensing, Fixture Identification, Force Monitoring, Machine Table, and more!

SPIROL Installation Made Easy

Application: Automotive Electrical Enclosure Cover

A leading manufacturer of plastic components for the automotive industry required a method to install (4) post-mold, oval Compression Limiters into electrical enclosure covers. Prior to SPIROL's involvement, the installation was done manually using a small arbor press.

Solution:

SPIROL Engineers reviewed the application, and recommended the Model CP Pneumatic Compression Limiter Installation Machine. Given the available space of the Model CP's working area, SPIROL designed the installation machine to install Limiters into (2) different assemblies - at the same time.

As an added bonus, the Model CP is flexible such that SPIROL was able to provide fixturing and tooling to install various sized Compression Limiters into (10) different assemblies. The transition from one assembly to another is a simple tool change that the operators could easily do without the help of technicians or mechanics. All fixtures were equipped with part sensing to ensure that Compression Limiters were fully installed at all locations.

The Model CP Pneumatic Compression Limiter Installation Machine was quickly built and delivered along with SPIROL's unique performance warranty - taking the risk off the customer and assuring high guality assembly and reliable long-term attainment of production objectives.



SPIROL Series CL400 Split Seam **Oval Compression Limiters**

Custom fixture enables simultaneous installation into (2) different assemblies

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.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 Canada

3103 St. Etienne Boulevard Windsor, Ontario N8W 5B1 Canada Tel. +1 519 974 3334 Fax. +1 519 974 6550

SPIROL Mexico

Avenida Avante #250 Parque Industrial Avante Apodaca Apodaca, N.L. 66607 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 United Kingdom

17 Princewood Road Corby, Northants NN174ET United Kingdom Tel: +44 (0) 1536 444800 Fax: +44 (0) 1536 203415

SPIROL France

Cité de l'Automobile ZAC Croix Blandin 18 Rue Léna Bernstein 51100 Reims, France Tel: +33 (0) 3 26 36 31 42 Fax: +33 (0) 3 26 09 19 76

SPIROL Germany

Ottostr. 4 80333 Munich, Germany Tel: +49 (0) 89 4 111 905 71 Fax: +49 (0) 89 4 111 905 72

SPIROL Spain

Plantes 3 i 4 Gran Via de Carles III 84 08028, Barcelona, Spain Tel/Fax: +34 932 71 64 28

SPIROL Czech Republic Evropská 2588 / 33a 160 00 Prague 6-Dejvice Czech Republic Tel: +420 226 218 935

SPIROL Poland ul. Solec 38 lok. 10 00-394, Warsaw, Poland Tel. +48 510 039 345

Pacific

Asia SPIROL Asia Headquarters 1st Floor, Building 22, Plot D9, District D No. 122 HeDan Road Wai Gao Qiao Free Trade Zone Shanohai, China 200131 Tel: +86 (0) 21 5046-1451 Fax: +86 (0) 21 5046-1540

SPIROL Korea

16th Floor, 396 Seocho-daero, Seocho-gu, Seoul, 06619, South Korea Tel: +82 (0) 10 9429 1451

e-mail: info@spirol.com

