

SPIROL®

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



Custom
alignment
fixtures
available

*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!**

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 quality 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.ca.

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