

SPIROL®

COMPRESSION LIMITER INSTALLATION TECHNOLOGY

Model CL Compression Limiter Installation Machine

This robust, vertical installation machine is specifically designed to install Compression Limiters into a variety of plastic components. The Model CL is available in two standard insertion force options: 4.5kN (1,000 lbs) and 9 kN (2,000 lbs). Higher force configurations can be provided to meet specific application requirements.

To operate, load the plastic part(s) and the Compression Limiter(s) over the fixture locating post(s). Automatically lock the fixture into place by moving it into the work zone. Upon removal of the operator's hands, the light curtain is clear and the machine can be activated. All Compression Limiters are installed simultaneously.

The Model CL is equipped with installation verification to ensure that the machine has completed a full installation cycle and a Compression Limiter was installed at each location. In the event of a fault, the touchscreen will flash an error message. The fixture slide locks in place until the operator acknowledges the message and places the machine back into operation mode.

Design Features/Benefits:

- Precise:**
 - Fine tip adjustment for depth
 - Precision ground work table
- Versatile:**
 - Single or multiple part installation
 - Available with multiple installation tips in nearly any configuration at various elevations
 - Installs different size Compression Limiters
- Easy to Use:**
 - 7" (178mm) Touchscreen interface
 - LED work surface illumination
 - Ergonomic part loading
 - USB and Ethernet ports
- Safe:**
 - Full perimeter guarding with light curtain
 - CE certified / Safety Controls meet safety category 4 per EN 954-1 / Performance Level PL_e per ISO 13849-1
- Installation:**
 - Full stroke sensor confirms cylinder reached preset installation elevation
- Verification:**
 - Sensors verify part installation at all locations



Visit **SPIROL.com**
for more information

See the Model CL in action:
<https://youtu.be/50h3jkkxxdl>



Optional enhancement features include:

- Andon stack light for visual indication of machine status
- Audible alarm for fault notification
- Tool kits to accommodate various assembly designs with automatic fixture recognition
- Powered fixture slide
- Fastener presence confirmation prior to machine cycle start
- Data acquisition
- Park marking upon successful completion of machine cycle
- Password reset after any machine fault



Read how SPIROL suggested the Model CL to a customer to improve the installation of multiple fasteners into their plastic component, saving them time and reducing waste.

Please refer to www.SPIROL.com for current specifications and standard product offerings.

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**
Connecticut, USA
+1 860 774 8571
info@spirol.com

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

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

SPIROL Mexico
Apodaca, Nuevo León
+52 81 8385 4390
info-mx@spirol.com

SPIROL Brazil
Indaiatuba, São Paulo
+55 19 3936 2701
info-br@spirol.com

Europe **SPIROL United Kingdom**
Corby, Northants, England
+44 (0) 1536 444800
info-uk@spirol.com

SPIROL Ford
South Shields, Tyne & Wear, England
+44 (0) 1914 540141
contactus@ford-engineering.com

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

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

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

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

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

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

SPIROL Malaysia
Iskandar Puteri, Johor
+60 77 063 960
info-my@spirol.com

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