



PRESS-N-LOK™ PINS IN A CATHETERIZATION DEVICE HANDLE

APPLICATION ENGINEERING

CUSTOMER CHALLENGE

A medical device manufacturer was using adhesive to bond two halves of a plastic housing for a handheld catheterization device. While glue provided an initial means of attachment, it introduced several manufacturing challenges. The dispensing process required tight control to avoid excess material, inconsistent bond lines, and cosmetic defects. Cure time also created a bottleneck, limiting throughput and increasing work-in-process.

In addition, adhesive bonding introduced variability into the assembly process. Too little adhesive could compromise retention, while excess glue could contaminate adjacent features or require secondary cleanup. The manufacturer needed a more repeatable and efficient method of joining the housing halves.

The medical device manufacturer approached SPIROL for a fastening solution that would increase assembly speed, reduce process variation, and provide reliable retention without the drawbacks associated with adhesive/glue.

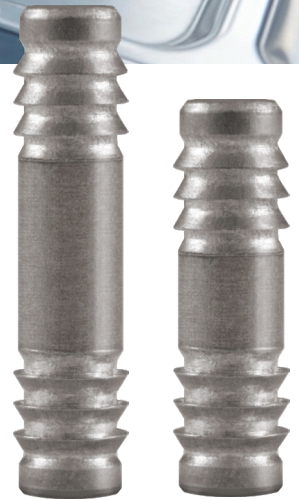
SPIROL SOLUTION

SPIROL Engineering recommended a **Press-N-Lok™ Pin** as the optimal solution for the medical device handle. Designed specifically for plastic assemblies, Press-N-Lok™ Pins provide fast, consistent installation - making them ideal for high-volume medical device production where consistency and cycle time are critical.

Unlike glue, which requires controlled dispensing and curing time, Press-N-Lok™ Pins are installed in a simple press-in operation that provides immediate retention. This significantly streamlines the assembly process and eliminates cure-time delays associated with adhesives. In addition, because retention is achieved mechanically, the assembly process becomes far more repeatable and independent of operator technique or material variation.

The Press-N-Lok™ Pin securely joins the housing halves by providing strong retention in the plastic while supporting a clean, efficient assembly process. Replacing adhesive with a mechanical fastening solution also helped the medical device manufacturer reduce process complexity, improve line productivity, and minimize the risk of assembly defects associated with inconsistent adhesive application.

By replacing adhesive with SPIROL Press-N-Lok™ Pins, the medical device manufacturer reduced process complexity, improved throughput, increased process consistency, and achieved a more robust fastening solution for its handheld catheterization device.



SPIROL Press-N-Lok™ Pins

Learn more about the Press-N-Lok™ Pin:

Scan the QR Code or visit <https://ca.SPIROL.com/Press-N-Lok/> to learn more about SPIROL's Press-N-Lok™ Pins.





**Innovative Fastening Solutions.
Lower Assembly Costs.**

Technical Centres

Americas

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

SPIROL International Corporation
+1 860 774 8571
info@spirol.com

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

SPIROL Mexico
+52 81 8385 4390
info-mx@spirol.com

SPIROL Brazil
+55 19 3936 2701
info-br@spirol.com

Europe

SPIROL United Kingdom
+44 (0) 1536 444800
info-uk@spirol.com

SPIROL Ford
+44 (0) 1914 540141
contactus@ford-aerospace.com

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

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

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

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

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

Asia Pacific

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

SPIROL Malaysia
+60 77 063 960
info-my@spirol.com

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



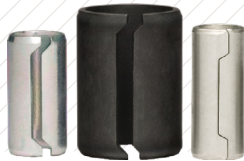
Coiled Spring Pins



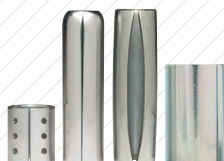
Slotted Spring Pins



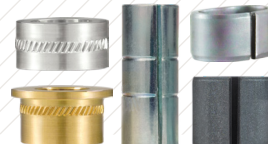
Solid Pins



**Alignment Dowels /
Bushings**



**Spacers & Rolled
Tubular Components**



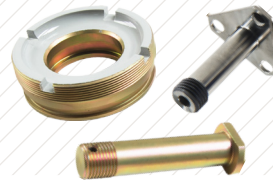
**Compression
Limiters**



**Threaded Inserts
for Plastics**



Disc Springs



**Machined Aerospace
Components**



**Precision Shims, Washers
& Metal Gaskets**



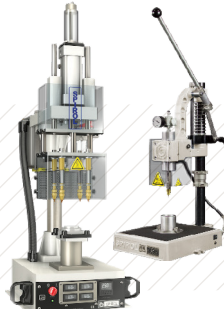
Laminated Shims



Parts Feeding Technology



**Pin Installation
Technology**



**Insert Installation
Technology**



**Compression Limiter
Installation Technology**

Please refer to **SPIROL.ca** 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.ca**.

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