

SPIROL®

PIN INSTALLATION TECHNOLOGY

Model PMH Heavy Duty Manual Pin Inserter

This exceptionally versatile tool is ideally suited for low to moderate levels of production: from a single unit for prototype assembly, to multiple units on an assembly line. The **Model PMH** easily accommodates quick change-overs. The fixture is simply replaced at the base of the machine, and the pin diameter is easily changed by switching the pin driving chuck. The precisely machined rack and casting results in smooth operation, precise positioning, repeatability, and durability.

Design Features/Benefits:

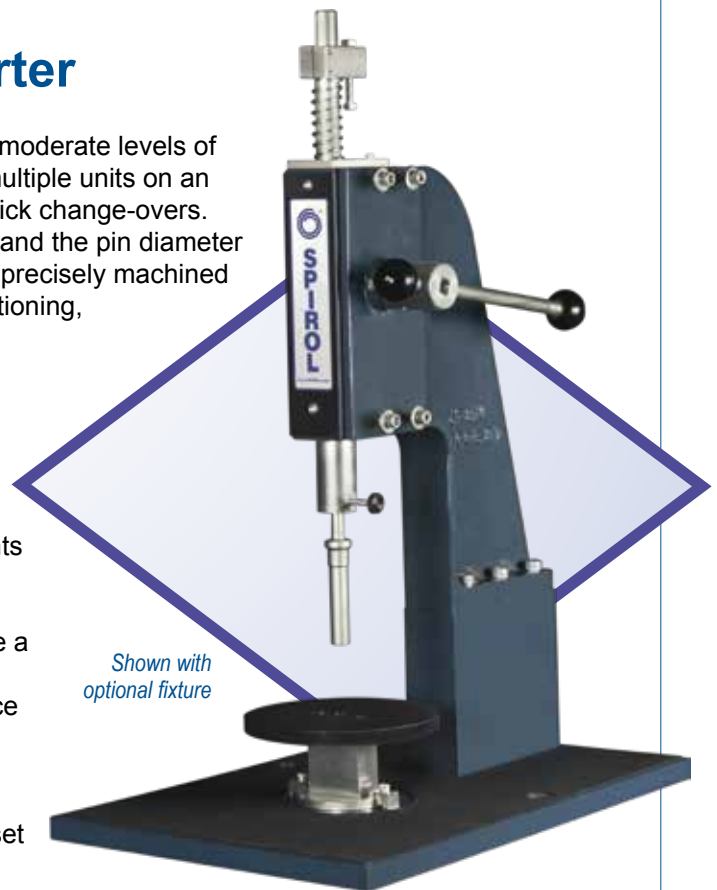
- Easy:** - Simple to operate and easily adjustable
- Accurate:** - Base plate is pre-drilled for simple and precise fixture location
- Reliable:** - Cast iron frame, all heavy duty components
- Versatile:** - Installs pins ranging in diameter from 0.8 mm to 10 mm (1/32" to 3/8")
 - Easy tooling changeover to accommodate a variety of applications
- Capacities:** - 6.7 kN (1500 lbs.) maximum insertion force
 - Vertical adjustment: Uses spacer blocks
 - Fixed throat dimension: 120 mm (4.7")
 - Stroke: 76 mm (3") – 177 mm (7")
- Options:** - Torque-controlled handle that can be preset to the desired installation force
 - Resettable counter

Simple Operation:

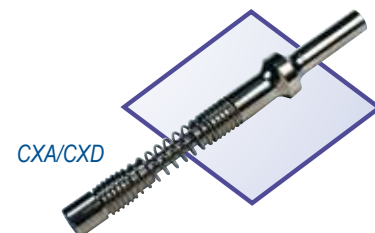
1. Load the part to be pinned into an alignment fixture
2. Manually insert a pin into the spring-loaded jaws of the pin-driving chuck
3. Pull the lever until the unit reaches a finely adjustable pre-set stop
4. Release the lever
5. Unload the finished assembly

Optional alignment fixtures available.

For higher production output, automated machines are readily available from SPIROL.



Easily accommodates
**SPIROL Pin-Driving Chucks:
CXA, CXD**



SPIROL®

Installation Made Easy



SPIROL Model PMH Manual Pin Inserter

Application:

A pump manufacturer was manually pinning brass gears to steel shafts. The objective was to assemble the gear to the shaft without damaging the gear teeth. The current process was operator dependent and the pin being installed was difficult to hold, align and hammer into place without damaging the pin or assembly. The insertion force required to install the pin was approximately 750 lbs. They were pinning several different gear/shaft assemblies, therefore, quick and easy pin diameter and fixture changeover was a major concern.

Solution:

The **SPIROL Model PMH** Heavy Duty Manual Pin Inserter was the perfect solution. The manual machine is capable of insertion forces up to 1,500 lbs, is low cost, portable, and easily convertible from one application to the next. The PMH equipped with a spring-loaded alignment pin resolved the alignment issue and provided a fixturing solution that holds the assembly in place during the pinning operation. The **SPIROL CXA Pin Driving Chuck** supports the pin during the entire installation process and the press has a positive stop for pin depth control, significantly reducing operator dependence. Various assembly sizes are easily accommodated by changing the fixture, CXA tool and fine adjustment of the installation stroke.

The Model PMH Heavy Duty Manual Pin Inserter met the assembler's need for flexibility and ease of installation for their low volume, multiple size, high insertion force applications.

*Also consider our **SPIROL Models PR and CR** machines for automatic feeding and insertion.*

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.

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

SPIROL United Kingdom
17 Princewood Road
Corby, Northants
NN17 4ET United Kingdom
Tel. +44 1536 444800
Fax. +44 1536 203415

SPIROL Germany
Ottostr. 4
80333 Munich, Germany
Tel. +49 89 4 111 905 71
Fax. +49 89 4 111 905 72

SPIROL Spain
08940 Cornellà de Llobregat
Barcelona, Spain
Tel. +34 93 193 05 32
Fax. +34 93 193 25 43

SPIROL Czech Republic
Sokola Tůmy 743/16
Ostrava-Mariánské Hory 70900
Czech Republic
Tel/Fax. +420 417 537 979

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

Asia Pacific **SPIROL Asia Headquarters**
1st Floor, Building 22, Plot D9, District D
No. 122 HeDan Road
Wai Gao Qiao Free Trade Zone
Shanghai, China 200131
Tel. +86 21 5046 1451
Fax. +86 21 5046 1540

SPIROL Korea
160-5 Seokchon-Dong
Songpa-gu, Seoul, 138-844, Korea
Tel. +86 (0) 21 5046-1451
Fax. +86 (0) 21 5046-1540

e-mail: info@spirol.com

SPIROL.com