

# SPIROL<sup>®</sup>

## PIN INSTALLATION TECHNOLOGY

### Model PMX Extra Heavy Duty Manual Pin Inserter

This versatile tool is ideally suited for low to moderate levels of production for assemblies that require installation forces up to 22.2 kN (5,000 lbs). The Model PMX 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. This extra heavy duty manual pin inserter will provide smooth operation, repeatability and durability.

#### Design Features/Benefits:

- Easy:**
- Ergonomic high mechanical advantage ratchet action
  - Simple and quick tool changeover
- Accurate:**
- Positive mechanical stroke stop for precise, repeatable installation depth
- Reliable:**
- Heavy duty cast iron frame
  - Hardened steel rack, pinion, and pawl
- Versatile:**
- Throat height accommodates a large array of parts
  - Rapid ram advance and retract accommodates many different size and shape parts
  - Precision ground oversize baseplate provides a large area for mounting part tooling
  - Accepts both CXA and CXD pin driving chucks
- Capacities:**
- 22.2 kN (5,000 lbs) maximum insertion force
  - Stroke: 380mm (15") in 50mm (2") increments
  - Adjustable throat height: 300mm (12")
  - Fixed throat depth: 125mm (5")

#### Simple Operation:

1. Load the part to be pinned into a holding fixture on the baseplate
2. Place a pin into the jaws of the pin driving chuck
3. Using the handwheel, advance the pin driving chuck to within 2mm (.078") of the hole in the host component
4. Pull the lever to the preset positive stop
5. Release the lever
6. Using the handwheel, return the pin chuck to the full up position
7. Unload the finished assembly



*Shown with optional fixture*

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



See the **Model PMX** in action:  
<https://youtu.be/9wSxmfvgXc>



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Coiled Spring Pins



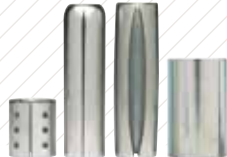
Slotted Spring Pins



Solid Pins



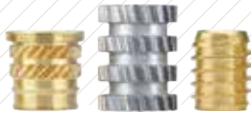
Alignment Dowels /  
Bushings



Spacers & Rolled  
Tubular Components



Compression  
Limiters



Threaded Inserts  
for Plastics



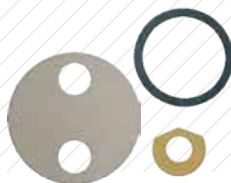
Railroad Nuts



Disc Springs



Precision Shims &  
Thin Metal Stampings



Precision Washers



Parts Feeding  
Technology



Pin Installation  
Technology



Insert Installation  
Technology



Compression Limiter  
Installation Technology

Please refer to [www.SPIROL.co.uk](http://www.SPIROL.co.uk) 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.co.uk](http://SPIROL.co.uk).