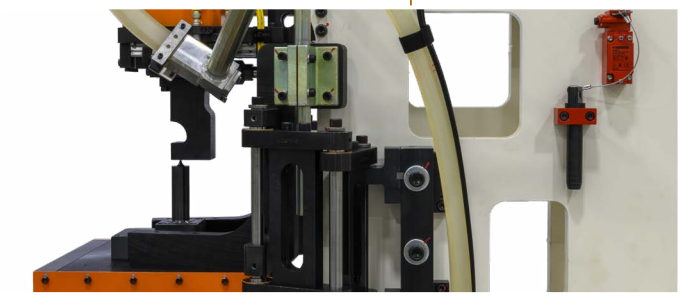
SoftMount™ Press



IMPROVE UPTIME FOR FASTENER INSTALLATION IN ROBOTIC AUTOMATION CELLS

The SoftMount™ Press is a robust solution for automated fastener installation, and capable of being integrated into CenterLine's High Speed Fastener Solution™ (HSFS) robotic production cells.

This system is available in two configurations:

- **Inverted Feed Process (IFP)** - For nut applications
- **Standard Feed Process (SFP)** - For nut and stud applications

STANDARD FEATURES

The SoftMount™ Press uses compact, compliant tooling that allows the press to mechanically fine adjust its position to a stamped hole.

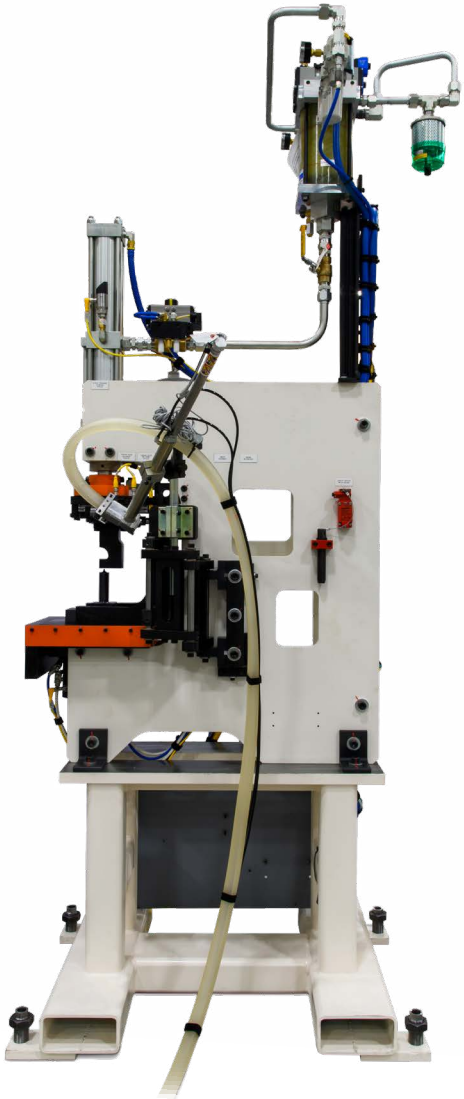
The tooling's ability to float ensures that the press produces consistent and concentric fastener installation.

ADVANTAGES

- Floating tooling adjusts itself to the hole in the stamping eliminating nuisance faults from the stamping getting hung up on the clinch pin.
- No need to use 2/4-way locators to locate stampings.
- Presses are configurable across a wide range of tonnage from 4-70 tons.
- All presses are equipped with VeriFast™ IA Fastener Detection for quality monitoring (resolution 0.02mm) and clinch set down.
- Uses the industry standard OHMA™ cylinder with a soft-touch, non-shock approach to workpiece and a 0.25-0.50" high force work stroke.
- Advance and working strokes of the OHMA™ cylinder are adjustable with regulators.
- IFP configuration utilizes CenterLine's Quick Fastener Placement (QFP) unit to bury the fastener load time, decreasing cycle time.
- The SoftMount™ Press is tested in our test bench and supplied with 3D models and documentation for easy integration. These configured products save design, build and commissioning time.
- The SFP configuration utilizes a spear feeder for fastener loading.
- An LPT is used to measure actuator travel.

SoftMount™ Press
Standard Feed Process (SFP)

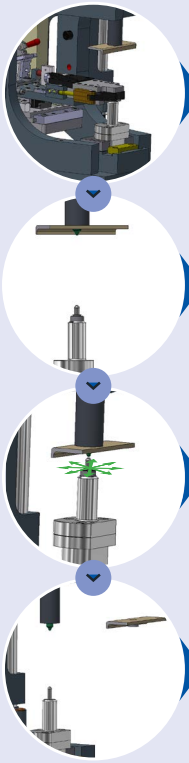
For Nut & Stud Applications



REDUCE CYCLE TIME AND MAINTENANCE

HOW IT WORKS

Clinching process with SoftMount™ IFP and QFP unit.



Workpiece is presented to the SoftMount™ Press.

Clinch pin is extended into the hole in the workpiece. The profile of the clinch pin allows the floating C-Frame to align to the workpiece ensuring the fastener and hole in workpiece are concentric.

Actuator is extended, LPT and VeriFast™ IA confirm a fastener is present and in the correct orientation to be clinched.

Actuator intensifies, VeriFast™ IA confirms setdown.

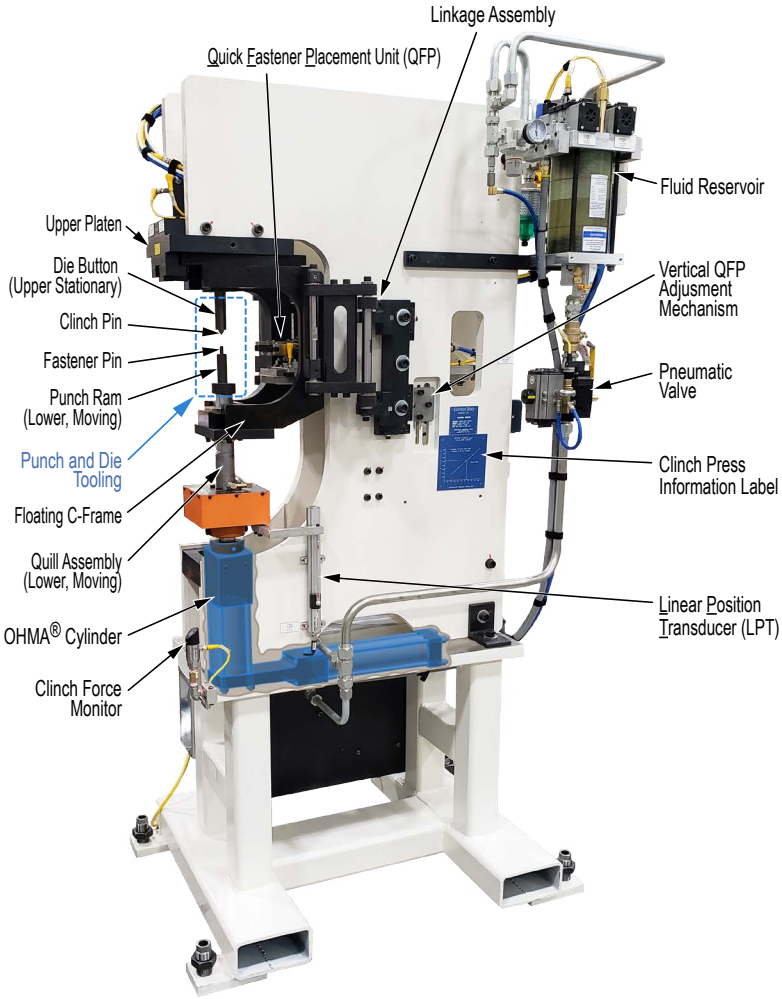
Actuator retracts, the QFP places the next fastener while piecework is moved to the next position or removed from the press, burying the feed time.

The compliance feature of the SoftMount™ Press and the entire press design have been optimized to create the best balance between stability and ease of movement. The hinge design allows for the floating C-Frame to align to the hole in the workpiece with very minimal force.

SoftMount™ Press

Inverted Feed Process (IFP)

For Nut & Stud Fastener Applications



Patent: www.cntrline.com/patent

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