The SoftMount™ Gun is designed to mechanically fine adjust its position to a stamped hole to consistently projection weld a fastener. It is ideal for robot applications where part dimensions, hole locations, or tooling are slightly inconsistent.

HOW IT WORKS

Proprietary Quick Fastener Placement Unit loads the fastener

Robot presents part to the weld gun

Nut or stud welding pin advances into the part

Gun adjusts to a position to allow the pin to fully engage the part

► When encountering any misalignment between the weld pin and the hole, the welding pin taper and radius, upon pin advancement, generate a sideways (horizontal) force on the gun. This force and the gun’s compliance feature cause the gun to adjust to a position so the pin can fully engage the part.

► Once in position, the fastener is welded to the part.

The gun’s compliance feature and the entire gun design have been optimized to create the best balance between stability and ease of movement. The compliance mount assembly is set far enough from the weld plane that it does not introduce variation to the welding process itself.

ADVANTAGES

► Reduces downtime and quality issues caused by improperly positioned and, therefore, welded fasteners.

► Reduces side loading on misaligned nut weld pins which can cause wear or breakage of pins

► Simplifies the need for meticulous robot teaching thus reducing setup time.

► Nut welding applications using the Quick Fastener Placement (QFP) Unit achieve better cycle times than traditional nut welding. This is due to the patented inverted weld nut position and the ability to feed the weld nut during robot moves or idle process opportunities.

► Uses both VeriFast™ LVDT and LPT monitoring for reliable error detection.

► Comes equipped with the VeriFast™ MicroView for process monitoring.
**ADDITIONAL ADVANTAGES**

- Helps forgive small dimensional inconsistencies in parts.
- Helps forgive part variations that can occur with hot stamped parts & laser cut holes.
- Eliminates the need to employ expensive and complex methods to detect weld fastener locations.
- Often allows for simpler and sometimes fewer end of arm tooling (EOAT) designs that can be leveraged across multiple parts.

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**STANDARD FEATURES**

- Patented VeriFast™ LVDT for accurate detection of fastener presence, orientation, and measurement of set down
- Patented Quick Fastener Placement (QFP) Unit for rapid nut feed and fast changeovers
- Patented C-Frame mounting style to return the gun to initial position without external force
- Low-impact actuator choices to achieve a wide range of welding forces
- PedTec™ weld gun stand
- Full leveling adjustment for reliable setup

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**Contact CenterLine today to learn how the SoftMount™ Gun can improve your fastener welding applications.**

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