HIGH SPEED MULTI-HEAD | COIL LINE WELDER

The Original - 50 Feet Per Minute - Coil Line Pinner

Most coil lines are capable of running at 50 feet per minute, but had to slow down to 25 ft/min. when applying welded duct liner fasteners. Gripnail introduced the industry's first 50 ft/min. two decades ago. Ever since we have been centered on continuously making industry leading improvements to the design. The PowerPinner 50 is capable of placing full range of weld pins up to 2" as close as 6" apart to metal as thick as 16 gauge without any extra modifications. The PP50 comes standard with a multitude of quality ensuring features that lead to unprecedented reliability.

The PowerPinner 50 can be fitted with 5 or 6 adjustable heads to accommodate for TDC and Slip & Drive duct work.

Features Include:

Dependable Electronic Controls - A PLC (Programmable Logic Control) unit replaces all timers, relays , reed switches and circuit boards.

High Capacity, Split Weld Pin Track System - Upwards of 25 pins are available from the lower track on the moving carriage before additional pins are speed loaded from the stationary upper track at the home position. The split pin track allows the carriage to move with the duct work at 50 ft/min without having to return to the home position for more weld pins.

Moving Carriage - The lightweight aluminum carriage allows the PP50 to operate at the same 50 feet per minute pace that the fiber belts move the ductwork.

Compatible With The Following Coil Lines:

Iowa Precision®, Vicon Machinery®, Engel Industries®, Jinwoong Technology LTD®

GRIPNAIL FASTENING SYSTEMS
(401) 216-7900
www.gripnail.com

Machine Operation

A simple *Chain Drive* connects the PowerPinner 50 and the coil line's insulator. This drive powers the heads forward at the same speed as the sheet metal whenever the machine is pinning. Immediately after the machine stops pinning, air cylinders move the drive heads back towards the insulator. The PLC optimizes the head travel so that full ten-foot sheets may be insulated with pins on six inch centers. The split pin track keeps a reserve of pins ready to speed load in the lower track every time the heads return to the home position.

Additional Features

Programmable Logic Controller - Inside the control box is a PLC, which has been programmed here in the USA, to coordinate welding and machine function resulting in the fastest and most perfected weld every time. Machine operators only need to increase the weld setting for longer pins or thicker sheet metal, and the PLC will set the dwell time and coordinate the feed cycle. Minimal operator training is needed for this machine which means maximum flexibility. The PLC even has a diagnostic screen should a machine element require attention. The PLC allows for minimum operator intervention during setup or job changers, all while producing maximum performance at industry leading speeds.

Chamfered & Recessed Weld Tip - The magnetic upper weld tip is specially designed with a chamfered edge and recessed center to optimize the weld quality of PowerPoint weld pins. The unique characteristics of the PowerPoint weld pin's noninvasive protruding shank captures and centers the weld pin to ensure consistent loading, while the beveled retaining cap prevents it from shifting off the weld tip when the pin is being set through the insulation. Although the PowerPinner 50 works with a variety of weld pins, using our PowerPoint's precision manufacturing process assures a trouble free operation with the best quality weld possible.

Double-Acting Load Cylinder - To keep up with the intense speeds of the PLC, double-acting load cylinders are standard on every machine. This ensures that each Weld Pin is loaded at maximum speeds without the danger of a component collision potentially possible with single-acting cylinders, which may lag due to its dependence on spring tension.

Simplified Controls - A single weld-setting switch controls the weld time while the PLC optimizes the dwell time. The other controls are individual Weld Head on/off switches and matching feeder bowl speed control.

Safety

A high visibility power switch comes standard with a simple to use Lockout/Tagout feature.

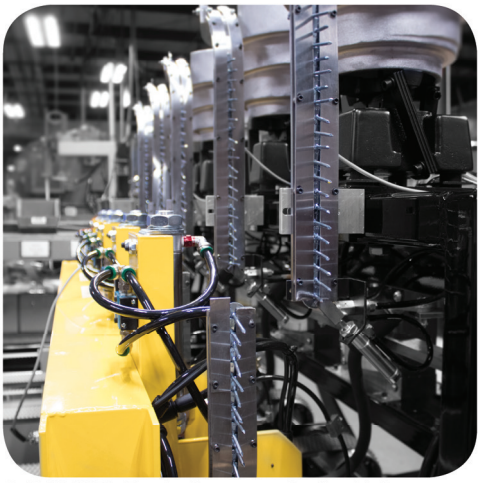
NEMA® Type 12 Electrical Enclosures - To prevent vital components from the rigor of most manufacturing environments, every electrical enclosure is rated to the National Electrical Manufacturers Association's Type 12 standards. This protects your investment from dust, debris, adhesive remnants and oil vapor from reaching operation critical components.

Moving Carriage - The lightweight aluminum carriage allows the PP50 to operate at the same 50 feet per minute pace that the fiber belts move the duct work.

Magnetic Drive Belts - The magnetic drive belts hold the sheet metal in place and keep insulation ductwork from shifting. This allows for precise and uniform welds in large ductwork. Two electronic clutches at the end of the drive belts push the carriage to match coil line speed.

Optional SAM Controller **-** The Spacing Acquisition Module replaces damaged or outdated control systems on older coil lines.

Chamfered & Recessed Weld Tip *matches PowerPoint Weld Pins with precision for increased reliability.*



Split Weld Pin Track *allows a supply of weld pins to move with the carriage during welding so the carriage is not required to travel back to the home position each time.*

Magnetic Fabric Belts *located bellow the carriage move the ductwork at 50 feet per minute.*

Specifications

Input Voltage	190-240 VAC 60Hz, 1 Phase, 100 Amp	**Pass Height**	36"
Air Requirement	5 CFM, 80 PSI	**Total Depth**	48"
Total Width	5-Head = 78" / 6-Head = 90"	**List Weight**	1,589 lbs.
Freight Class	70	**Shipping Weight**	1,810 lbs.

ISO 9001 Certified
Made in the U.S.A.
An Employee Owned Company

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