

MODEL FG-1 AUTOMATIC PINSPOTTER

**Bulk feed type
pinspotter.
Fast, trouble-free,
reliable performance.**



Item# 17299-5' Throat

Extensive experience and research with welding techniques and equipment resulted in the development of Duro Dyne's Pinspotter line - from the hand held LF to the fully automatic RH.

Recognizing the need for a reliable, stationary automatic Pinspotter, Duro Dyne Corporation sought to develop a "hopper" fed fixed position fastening unit, incorporating the inherent fastening strength of a welding system. The result is our model FG-1 fixed position Pinspotter.

Automatic Bulk Feeding System

The FG-1 utilizes an easily accessible vibratory parts feeder capable of holding approximately one thousand 1" weld pin fasteners. An air actuated sensing device automatically loads weld pin into the tracking system as needed.

Reliability

The model FG-1 Pinspotter is not only fast, but quiet - no hammering. Most important, the installed clip holds stronger than any other commonly used fastener for "when you weld, it's held."

Fastening Time Minimized

Simply press the footswitch, and in a fraction of a second, a weld pin pressed through the liner and welded to the metal sheet. After the welding tip retracts another weld pin is instantly fed into position under the welding tip.

Proven Reliability

The FG-1 utilizes the same solid state components as are in our model RH Pinspotter. Duro Dyne distributors and sales engineers are available throughout the country to provide continuing service.

Superior Holding Power of a Weld Fastener

Only through welding can the fastener become united with the metal. Fastener failure during fabrication, transport and installation is eliminated.

Meets SMACNA Specifications

The welded fastener fully meets specifications for such fastening as outlined in the SMACNA manual pertaining to the insulation of ducts.

Fastens Two Inch Liner

The FG-1 is capable of automatically feeding and fastening 1 1/2" long weld pins through 2" liner.



DURO DYNE EAST
Route 110
Farmingdale, NY 11735
631-249-9000
FAX: 631-249-8346

DURO DYNE MIDWEST
3825 Symmes Rd.
Fairfield, OH 45011
513-870-6000
FAX: 513-870-6005

DURO DYNE WEST
15005 marquardt Ave.
Santa Fe Springs, CA 90670
562-926-1774
FAX: 562-926-5778

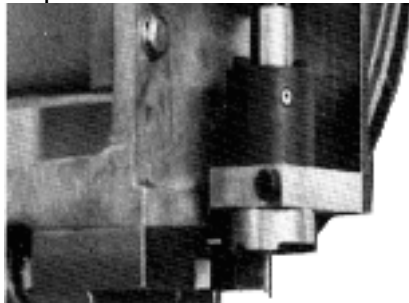
DURO DYNE CANADA
5030 Francois-cusson
Lachine, Quebec, Canada H8T 1B3
514-422-9760
FAX: 514-636-0328

Features of the FG-1 Pinspotter



Hoppers

A special design vibratory parts feeder holds approximately 1000 1" weld pins. Weld pins are automatically fed into the tracking system as the track supply is depleted.

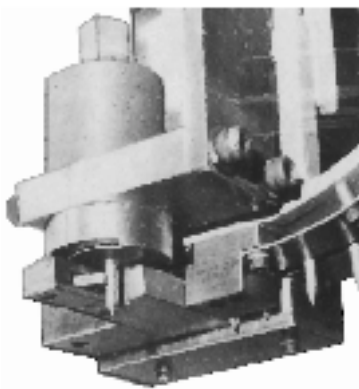


Pin and Tip

Weld pins are magnetically held by the upper electrode ready to be pressed through the insulation and welded to the duct in a fraction of a second.

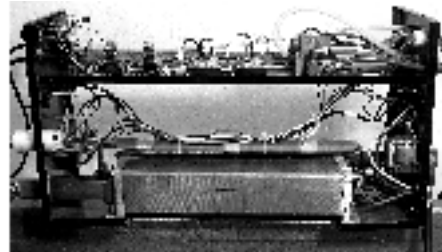
Superior Holding

The welded fastener is unsurpassed in holding power because it becomes part of the material it is welded to. In tests by an independent testing laboratory, welded fasteners samples exhibited a holding strength averaging three times that of the nail type fasteners under controlled conditions.



Feeding Track

A tested gate design feeding track insures jamless feeding of weld pins. Double feeding (the feeding of two fasteners at once), which causes costly fastener waste is eliminated.



Component Tray

Solid state pneumatic head design provides extremely reliable operation with a minimum of components. Repairs, should they be required, are performed by modular component replacement. 24 volt circuitry provides for safe maintenance and ease of operation.



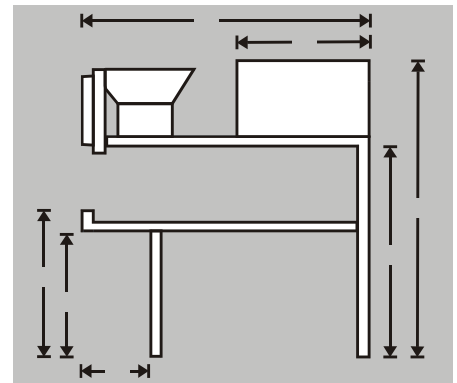
Operation

The operator depresses the footswitch, a weld pins penetrates the duct liner and is welded to the duct work. After the welding tip retracts, a new Weld Pins is automatically positioned under the welding head; awaiting the operator's signal to reactivate the cycle.

As Weld pins are fed from the storage track to the weld tip, an air operated sensor activates the vibratory parts feeder to replenish the fasteners in the storage track. As with all Duro Dyne welded fasteners, the holding power of an installed clip is superior to that of any other commonly used fastener.

Also available for difficult to work areas is a remote hand gun and ground cable set which connects to fittings on the FG-1 frame and power pack. Just place a clip on the magnetic welding tip, insert the pin through the liner, twist the gun slightly and pull the trigger.

Technical Specifications



Air Requirements

The automatic head is supplied with an air filter assembly which includes an on-off switch. The input pressure required to operate air head is 80 PSI.

Electrical Specifications

Input voltage 220V 60HZ single phase. The FG-1 unit should be located close to the power source, to minimize voltage drop from source to unit. Sufficiently heavy 3 wire cable (usually 3 wire #8 conduit) is to be used. Fuse for 30 amps.

Item#	Clip Pin	Approx. Clip Size	For Liner Size	Quantity
26033	CP-12	1/2"	1/2"	1M
26028	CPB-12	1/2"	1/2"	10M
26024	CP-34	3/4"	1"	1M
26029	CPB-34	3/4"	1"	5M
26025	CP-100	1"	1" Heavy Density	1M
26030	CPB-100	1"	1" Heavy Density	5M
26026	CP-150	1 1/2"	2"	1M
26031	CPB-150	1 1/2"	2"	3M
26027	CP-200	2"	2"	1M
26038	CPB-200	2"	2"	3M

CP-200, CPB-200 can be hand loaded and welded with FG-1.