



S1138 Multi-Hit Rotary Endform Machine

Designers and Manufacturers of Machines • Tools • Fixtures • Test Equipment

- **Up To Six Endform Operations in 4.0 - 5.0 Seconds**
- **Automatic load and unload.**
- **Tube is clamped one time, eliminating multiple clamp reduction.**
- **Utilizes Industry Standard Tooling**
- **Tooling Changeover in Less Than 45 Minutes**
- **Servo Index**



Patent Number: 6,233,992

The S1138 Multi-Hit Hydraulic Endformer represents the latest in machine design innovation from Lomar. Designed to “do-it-all”, the S1138 makes a revolutionary leap forward in endforming technology by incorporating rapid endforming, grooving, and cutting operations in one machine.

Combining key design features of other Lomar Machine products with new, patented technology enables the S1138 to achieve a new performance standard in tube forming.

The Lomar S1138 utilizes an 8-station rotationally indexing turret, which incorporates up to 8 individual sets of clamp tooling.

Station 1 is a load position, stations 2 through 7 are “work” stations, and station 8 is an unload station.

Once clamped, the work piece is not released or re-clamped until all operations on that piece are completed. With each 45° index of the turret, a new work piece is loaded at the first station, and a finished piece is unloaded at the eighth station.

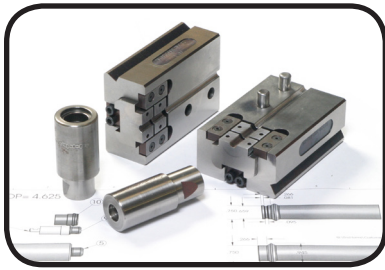
The result of this manufacturing process is a complete, finished part, with up to 6 endform operations, without excessive diameter reduction, in 4 - 5 seconds.



Features



Control panel



Utilizes Industry Standard Tooling

- Allen-Bradley Panelview controller (shown) has the capability to retain twenty five endform configurations making change-over quick and efficient.
- 8-Stations, 1-Load, 5-Endform, 1-Groove or Cut station and 1-Auto Eject Unload station.
- Self-contained hydraulic power unit with air-cooled oil cooler.
- Store multiple part numbers for roll grooving.
- Easily accessible quick-change tooling.
- Accepts industry standard tooling.
- Mechanical toggle and link mechanism is used to clamp standard 4" clamp blocks.
- Lomar quick change tooling cartridge system retains tooling set-up for repeat jobs.
- Small overall size, footprint (108" L (2743mm) x 80" W (2032mm) x 78" H (1981mm)).

Capabilities



Roll Grooving Part Samples

- Material: Aluminum, Mild Steel, Stainless Steel, Copper and Brass.
- Diameters: 5/16" through 3/4".
- Wall Thickness: Aluminum up to .080, Steel up to .049.
- Shortest/Longest Tube: 4.25" to 60" long.

The above are general guide lines, if you have other applications we will be glad to review them.

Specifications

DIMENSIONS:

108" L (2743mm) x 80" W (2032mm) x 88" H (2,235mm)

SHIPPING WEIGHT: 8,000 lbs

ELECTRICAL REQUIREMENTS: 480V 3 PH, 60Hz (Other requirements available. Contact Lomar.)

ELECTRIC MOTOR: 40 HP

HYDRAULIC PUMP: 28 & 6 GPM

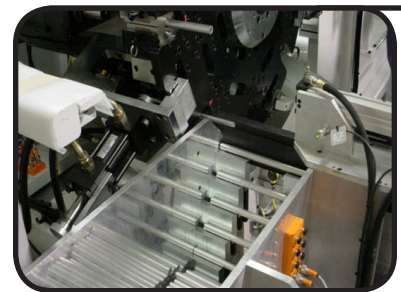
RESERVOIR CAPACITY: 80 U.S. Gallons

CYLINDER TONNAGE: 3.65 tons @1,500 PSI

STROKE LENGTH: 5" Approximately 4 seconds

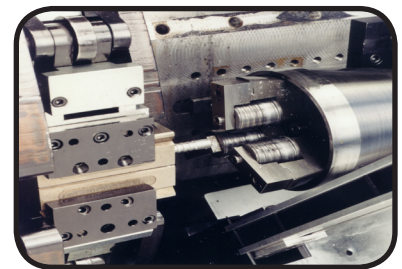
MACHINE CYCLE TIME: Approximately 4 -5 seconds

Options



Hopper feeder/loader

- Hopper feeder/loader (shown) can accommodate a wide range of tube diameters and lengths.
- Safety mat, light curtains, perimeter guarding to meet specific applications.
- Robotic integration for part loading, unloading and transfer.
- Unload systems.



Electric Servo Grooving Station

- Electric servo grooving station (inset photo) with variable speed spindle drive for rolling or cutting grooves.
- Bowl feeders for ferrules, blocks, & inserts.
- Flood lubrication system or Uni-Mist lubrication system.
- CE/CSA Compliance available.
- Inspection devices.
- Complete forming cells.



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Product Video

