



PRECISION CONTROL TECHNOLOGY FOR ALL APPLICATIONS

The MOSAIC Control is the high performance control system that controls and communicates all **MAGNA MV** machine functions and parts producing processes. MOSAIC Control provides reliability, performance, and user-friendliness to keep your process in control.

MOSAIC CONTROL FEATURES

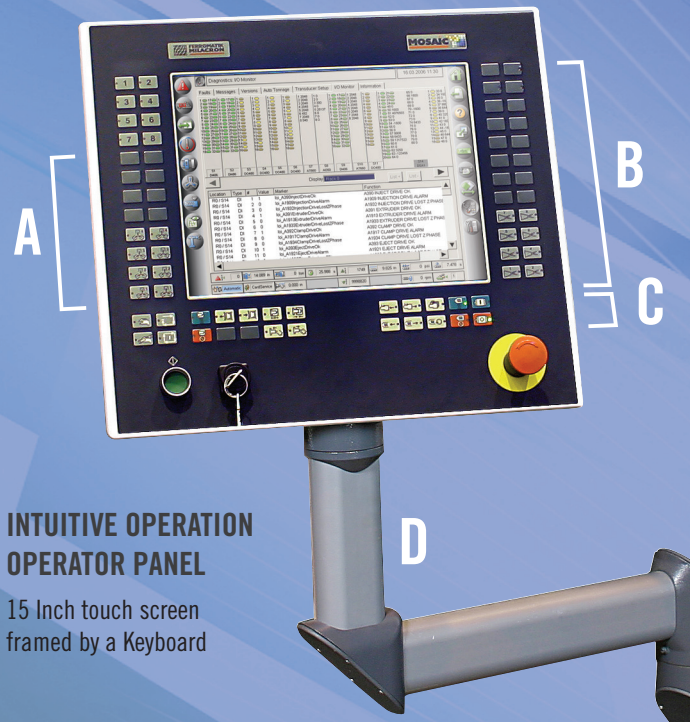
- 15 Inch Diagonal Screen
- TFT Flat Panel
- Touch Screen (Analog, Resistive)
- Dual Intel Processors
- Two USB 2.0 Ports
- Ethernet port - TCP/IP and FTP protocols
- All-digital feedback for accuracy
- Built-in Web Server
- Freely Configurable I/O
- Direct Menu Access
- Machine History Notepad
- Setpoint Overview
- Enhanced Operator ID
- Alarm Log and Change Log
- Process Monitor
- Statistical Process Control (SPC)
- Advanced Plotting Graphics
- Volume/Position/Pressure Injection Setpoints
- Choice of Language and Units of Measurement

MAGNA V

VERTICAL INSERT INJECTION MOLDING MACHINES



Rotary, Shuttle and Stationary Table Designs



INTUITIVE OPERATION OPERATOR PANEL

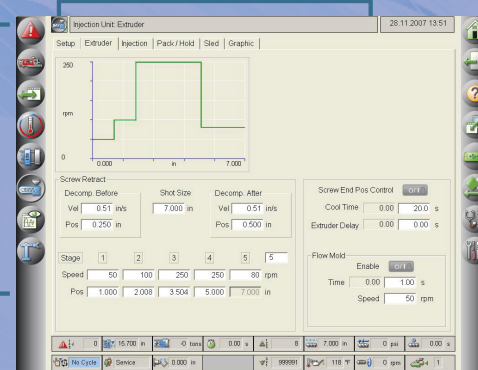
15 Inch touch screen framed by a Keyboard

- A** Individual forward and retract manual movement keys for each axis.
- B** Factory programmable buttons for added options.
- C** Logical grouping and separation of the machine function and manual operator keys.
- D** Sturdy industrial swing-arm mount can be optimally positioned for each operator, allowing for an unobstructed view of the mold area.

INTUITIVE OPERATION TOUCH SCREEN

- Access Keys:**
- Alarms
 - Overview
 - Mold Data
 - Temps
 - Clamp
 - Cores
 - Injection
 - Production Automation

Message Bar: Displays the active alarm text or the current menu if no alarm exists.



- Functions:**
- Home
 - Page Back
 - Help
 - Screen Export
 - Data Export
 - Foreground
 - Diagnostics System

Status Bar: The always visible Status Bar provides a quick glance at the current status of critical machine parameters.



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THE **MAGNA V** SERIES - VERTICAL INSERT INJECTION MOLDING MACHINES
30 - 50 - 80 - 130 - 200 - 280 U.S. TONS
FEATURES AND BENEFITS



All specifications reflect average values based upon typical machine layouts. Actual figures will vary depending on final machine configuration. If you require more specific data, consult a certified installation print for your particular machine. Performance specifications are based upon theoretical data. Due to continual improvements, specifications are subject to change without notice. © 2008 MILACRON Inc. MILACRON, CINCINNATI MILACRON, MOSAIC, MAGNA MTG and the Globe Graphic are registered trademarks of MILACRON Inc. Printed in USA. 02/08 PM935



VERTICAL INSERT INJECTION MOLDING MACHINES

VERSATILITY. SPEED. PRECISION. VERTICAL TIE-BARLESS CLAMPING.

MAGNA V Series vertical clamp machines bring you every advantage for insert molding from encapsulation of delicate electronic parts to over molding of plastic on metal for diverse automotive applications.

MAGNA V machines can be configured for every possible insert molding application by combining a wide range of clamp, table and injection unit configurations. Vertical clamps with horizontal tables let gravity gently and easily do the work of holding single or multiple inserts. Open clamp designs with rotary and shuttle tables give the advantage of working with multiple molds and simultaneous operations including pre molding, injection and post molding operation. Simultaneous operations are easily automated for consistent quality, high productivity and high profitability.

Insert molding is the process in which one or more plastic materials are injection molded around one or more inserts. The inserts may consist of a variety of materials including metal stampings, wire, mesh screens, or even another plastic part. Why insert mold?

- Easily combine two materials.
- Encapsulate delicate parts.
- Reduce assembly costs.
- Reduce post-molding operations.
- Impart damping and insulating properties.
- For molding aesthetics, design features, feel.



MAGNA V high-speed, high-high volume vertical insert injection molding productivity is ideal for:

- Automotive
- Medical
- Electronic
- Industrial
- And all other precision insert molding requirements

ROTARY TABLE

- Multi-station flexibility for multiple operations to maximize productivity. Standard configurations available for 2 or 4 stations (mold bottoms) and custom for 3, 6 and other required numbers of stations.
- All-around light curtain allows for multiple operations around the table without cumbersome guarding.
- Easy to automate several stations.
- Easy access for mold setup and operation.



STATIONARY TABLE

- Best for dedicated applications.
- Flexible to run a wide range of parts from simple to complex and for low volume applications or where multiple molds are not required.

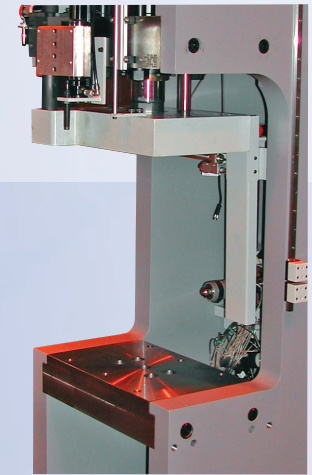
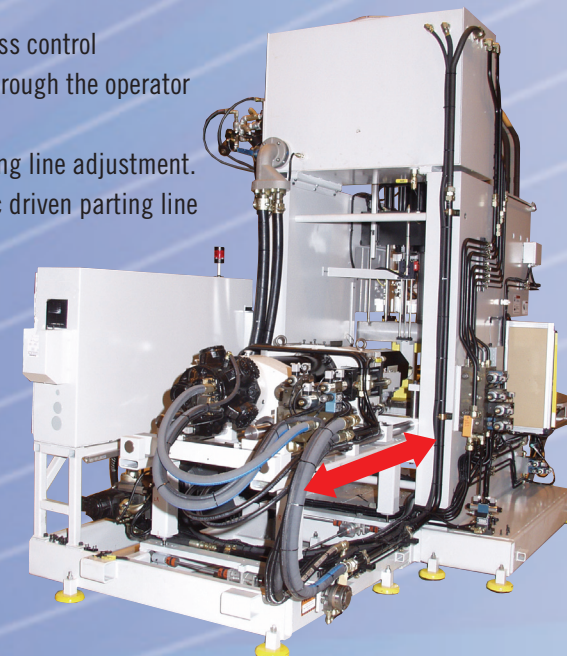


SHUTTLE TABLE (side-to-side)

- Simultaneously load/unload parts during molding using two mold bottoms.
- Ability to run long inserts applications that are too long for rotary tables.
- Flexibility to run a single mold.
- Shuttle table is moved side-to-side by hydraulic cylinder with precise positioning through use of position sensors and mechanical stops.

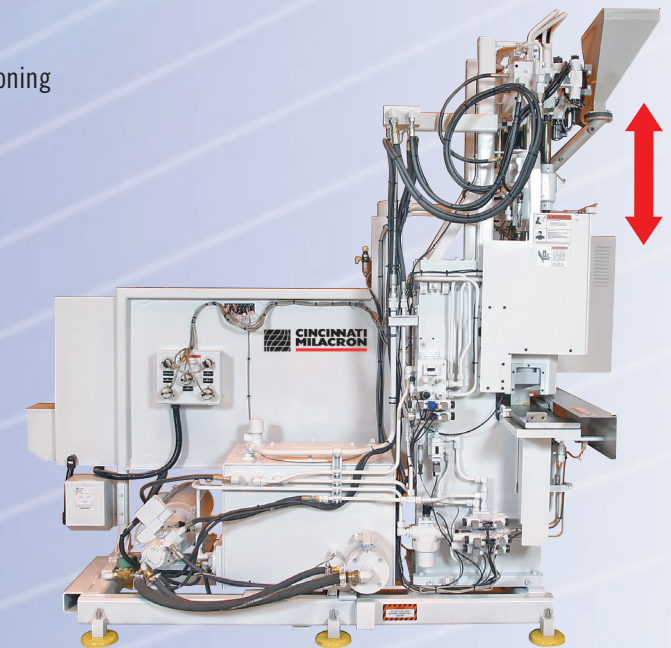
Precision Processing Features

- Closed-loop process control
- Sled control set through the operator interface.
- Single-point parting line adjustment.
- Optional hydraulic driven parting line adjustment.



MAGNA V's Vertical Clamp Design is Open for Easy Production or Automation. The clamp design is a robust vertical C-frame that is open in the front and on the sides.

- No tie bars to interfere with inserts that extend beyond platens.
- Can use large rotary and shuttle tables for increased mold capacity with less floor space.
- East access for mold changing and plumbing.
- Easy Access to molds for automation.



Horizontal and Vertical Injections Units

Two design configurations to fit application requirements: Standard **Horizontal injection units** for parting line applications and optional **Vertical injection units** for center-gated applications.