



PRECISION CONTROL TECHNOLOGY FOR ALL APPLICATIONS

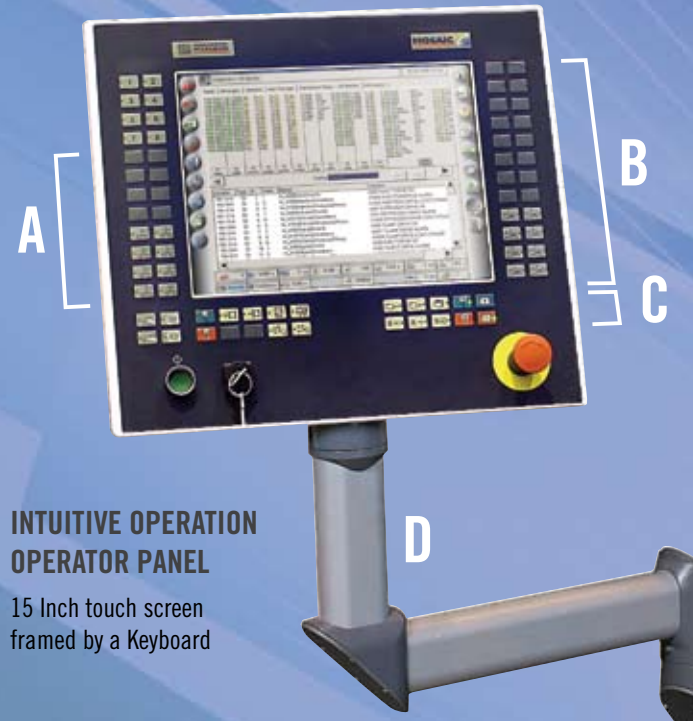
The MOSAIC Control is the high performance control system that controls and communicates all **MAGNA MM** machine functions and parts producing processes. MOSAIC Control provides reliability, performance, and user-friendliness to keep your process in control.

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

MAXIMA MM

2-PLATEN HYDRAULIC INJECTION MOLDING MACHINES



- 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.



310 WP - 450 - 550 - 580 WP - 725 - 950 WP U.S. TONS



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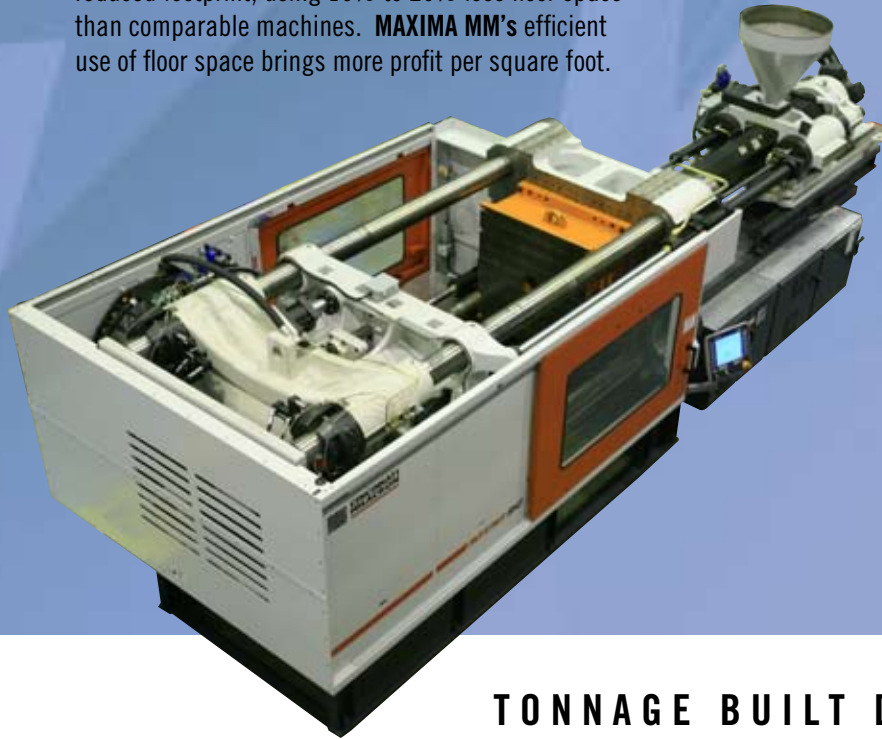
THE **MAXIMA MM** SERIES INJECTION MOLDING MACHINES
310 WP - 450 - 550 - 580 WP - 725 - 950 WP U.S. TONS
FEATURES AND BENEFITS



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

2 - PLATEN HYDRAULIC PRODUCTIVITY

MAXIMA MM Series machines bring you production in a reduced footprint, using 10% to 20% less floor space than comparable machines. MAXIMA MM's efficient use of floor space brings more profit per square foot.



STRONG AND RIGID CLAMP

The direct-acting clamp of the MAXIMA MM machines gives processors an advantage by building tonnage in the center, directly behind the mold. Benefits:

- Tonnage Build is a short stroke compressing a small amount of oil, resulting in fast tonnage build times.
- Tonnage build is reliable, with only one piston to control, not four.
- Tonnage force directly behind the mold provides symmetrically distributed clamp forces in the mold area.
- Better alignment, assuring reduced mold wear.
- Greatly reduces platen deflection.
- Better part quality and higher productivity.
- Simple and proven design, resulting in improved uptime.
- Reliable and durable.

TONNAGE BUILT DIRECTLY BEHIND THE MOLD.

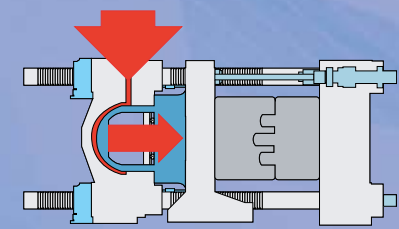
A The MAXIMA MM tie bars are fully supported end-to-end by a rigid frame structure to ensure platen parallelism.

B The MAXIMA MM features a rigid I-beam and plate construction base for strength, rigidity and durability.

C Split locking nuts on buttressed grooved tie bar threads ensure aligned clamp lock-up.

D Rapid traversing cylinders open and close the clamp.

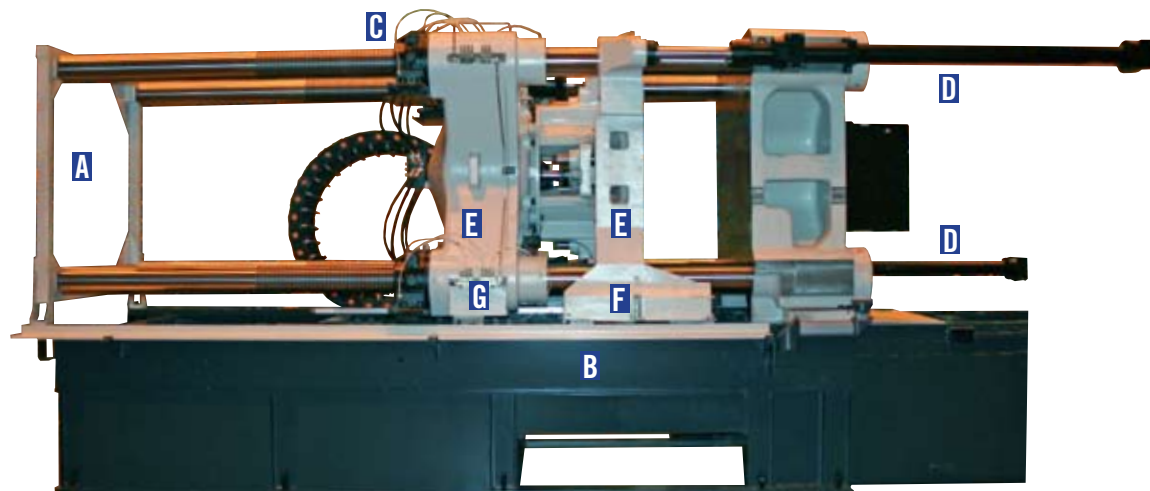
MAXIMA MM 2-Platen Direct Acting Ram with High Pressure Build Up Directly Behind the Mold.



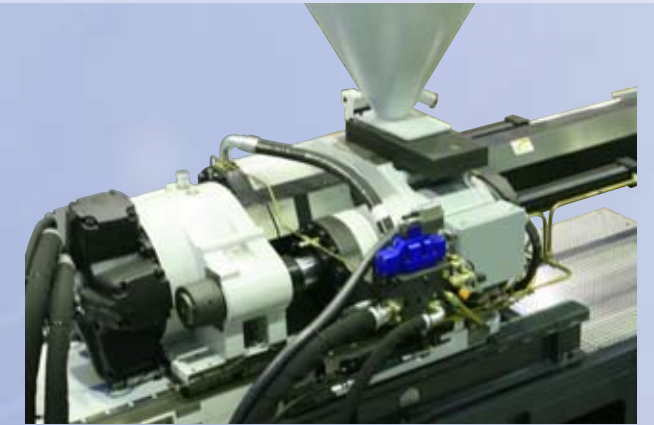
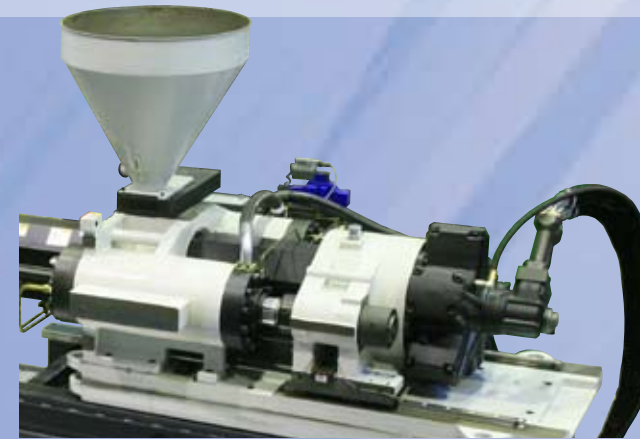
E The moving platen and cylinder platen together form a deep box structure for minimal deflection and optimal support for the mold.

F The large, wide platen skate design assures platen and mold half parallelism. The robust skate design accommodates a 2/3 maximum mold weight to be mounted on either moving or stationary platen.

G The moving platen adjustable skates ride on hardened steel ways and can be precisely adjusted as needed over time.



PRECISION PROCESSING PERFORMANCE



The MAXIMA MM Series injection units are equipped with twin injection cylinders and twin pull-in cylinders for precise alignment. Precision Ways improve misalignments affecting screw pick-up and cylinder leaks.

Clean, clear access to the purge area is provided on both the operator and non-operator sides of the machine. The injection unit can be swiveled to accommodate screw and end tip removal.

The MAXIMA MM Series provides versatility with multiple injection units available with A-B-C barrel and screw combinations.

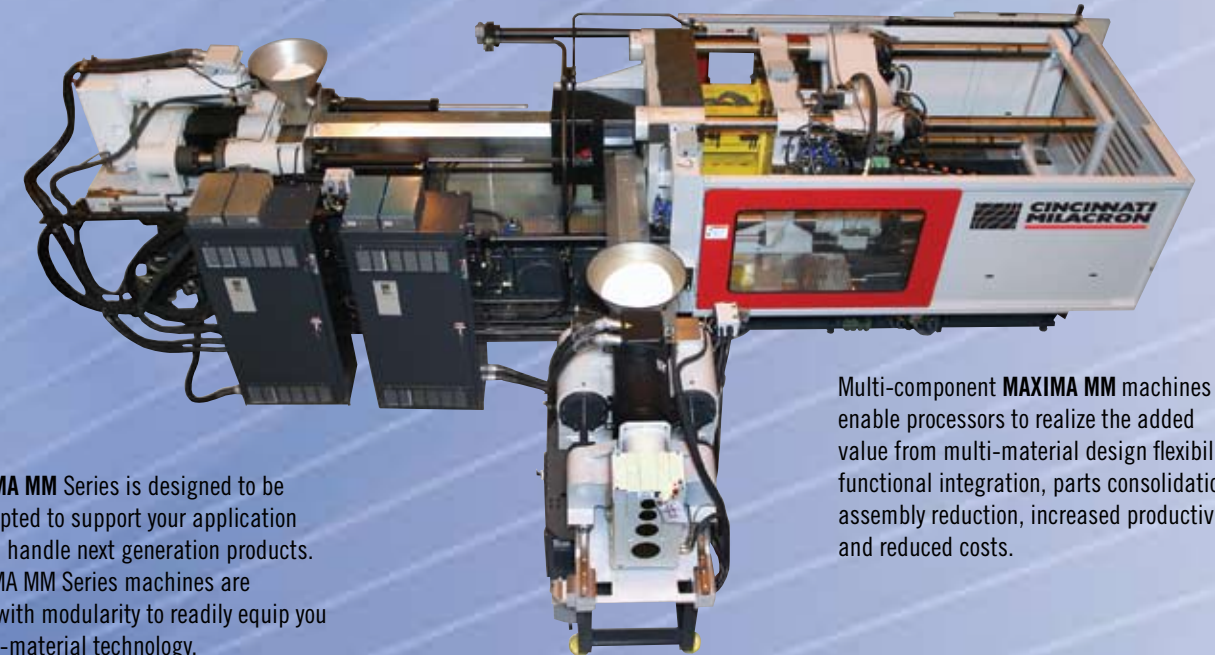
Injection performance is assured with closed-loop control of injection velocity and pressure.

The extruder features 5 stage screw RPM for precise melt quality as well as closed loop back pressure control.

The MAGNA MT[®] Series has a wide selection of injection units and screw geometry available. This means application specific solutions for every material formulation and plasticizing rate, including SERVTEK packages for:

- High performance, high throughput
- Lower melt temperatures
- Better mixing and melt homogenization
- Wear resistant protection

ADDING VALUE THROUGH MULTI-MATERIAL TECHNOLOGY



The MAXIMA MM Series is designed to be easily adapted to support your application needs and handle next generation products. The MAXIMA MM Series machines are designed with modularity to readily equip you with multi-material technology.

Multi-component MAXIMA MM machines enable processors to realize the added value from multi-material design flexibility, functional integration, parts consolidation, assembly reduction, increased productivity and reduced costs.

MAXIMA MM Multi-Component Machine with Second Injection Unit