

Equipment Manufacturers International, Inc.

Foundry Equipment...By Design

AUTOMATIC MATCHPLATE SOLUTIONS

High Performance Matchplate Molding Machines

Machine Highlights:

- · Reduce cycle times and improve mold quality
- Reduce maintenance costs
- · Available in all HMP matchplate sizes
- · Enhance performance and machine reliability

Mechanical Benefits:

- Draw guides with linear shafts and precision bushings
- Tapered mold pins that center the bottom board in the same location every time
- Tapered mold pins accurately center the bottom board on the squeeze platen and eliminate board movement
- Bin gate operated by single cylinder using extended force to close gate

System Components:

- Eliminated mold shift related to squeeze station misalignment
- Reduced machine cycle time, typically 25-40%
- Existing matchplate patterns and tooling can be used
- Prepared sand feeder, spill collection, mold handling system, etc. can all be used with little or no modification
- New machine is plug and play with your existing system, and can be installed during a weekend

Electrical Components:

- Control system can be remotely located to reduce vibration and extend electronic component life
- Position transducer installed within the platen and hopper car cylinder
- · Hydraulic and pneumatic
- · Pressure transducers
- Integrated light curtains for easy access and increased operator safety
- Proximity sensors with quickconnect wiring harnesses.
- · Position transducer for rollover control

American Made American Owned

At EMI we have specific solutions to your molding and core room production requirements

Hydraulic & Pneumatic Components:

- Dual pump hydraulic system
- Hydraulic system simplified to standard OEM components (pumps, manifold, valves and tubing)
- · Troubleshooting is greatly simplified
- Large capacity oil reservoir with proportional valves for fast and smooth control of drag flask, hopper car, platen, board feeder, and rollover
- Oil temperature control to maintain maximum operational performance for the entire production period
- Lower compressed air requirements

Operator Interface:

- Cycle time breakdown
- · Productivity measurement tools
- Motion alarms to warn against problem cylinders
- Alarms and diagnostic tools
- Maintenance reminders
- · Recipe management



Specifications

MODELS	1419 355 x 483mm	2024 508 x 610mm	2026 508 x 660mm	3032 762 x 813mm
Mold Size Width Length	14.0 " (355mm) 19.0 " (483mm)	20.0 " (508mm) 24.0 " (610mm)	20.0 " (508mm) 26.0 " (660mm)	30.0 " (762mm) 32.0 " (813mm)
Cope Height	5.5 " (140mm)	Shallow/Deep 6.5" / 8.5" (165mm / 216mm)	11.5 " (292mm)	12.0 " (305mm)
Drag Height	4.5 " (114mm)	5.5" / 7.5" (140mm / 190mm)	9.0" / 11.0" (229mm / 280mm)	11.0 " (280mm)
Molding Speed Cycles/Hour	160	150	120	60
Sand Requirements lbs. (kg) / Mold	150 lbs. (68 kg)	400 lbs. (181 kg)	630 lbs. (285 kg)	1200 lbs. (544 kg)
Squeeze Surface Pressure Variable to Maximum	140+ psi	140+ psi	140+ psi	140+ psi
Pump Motor (horsepower)	20	40	50	60
Machine Dimensions Length Width Height Weight	137" (3485mm) 62" (1575mm) 116" (2950mm) 9980 lbs. (4536 kg)	157" (3990mm) 62" (1575mm) 125" (3190mm) 15,000 lbs. (6804 kg)	160" (4064mm) 68" (1727mm) 160" (4064mm) 17,000 lbs. (7710 kg)	200" (5085mm) 62" (1575mm) 157" (3990mm) 27,000 lbs. (12273 kg)

Other Machine Sizes Available: 16 x 20

EMI's Growth Continues...

EMI is your trusted resource for best in class automatic matchplate molding machines and custom mold handling solutions.

EMI is well-positioned to support the automatic matchplate molding requirements of customers, having served the foundry industry for 40+ years with a broad range of high-quality, market-leading product lines such as EMI, Osborn, SPO, Sutter, +Impact+, and Herman along with an equally diverse range of core competencies, including design engineering, turnkey installations, manufacturing, and long-term service support.



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