MPI is the worldwide leader in wax-room and ceramic core equipment and the acknowledged leader in wax-room innovations. MPI has developed and introduced more systems and products than all its competitors combined and offers wax-room solutions that can’t be found anywhere else.

**WAX INJECTORS**

MPI’s wax and ceramic injection machines are the most sophisticated in the industry and generate higher casting yields, more patterns per hour, reduced scrap, and increased productivity. They’re also the most reliable in the industry, which means higher system availability, lower maintenance costs, and better performance.

**AUTOMATION**

MPI is at the forefront of automation, having automated some of the most complex processes in the investment casting industry for well over a decade. MPI’s automated injection and assembly cells provide the capability to make and assemble wax patterns from the simplest commercial parts to complex patterns required by the medical and aerospace industries, including single crystal turbine blades. MPI can automate a single process or implement full-scale automation for your facility.

**MPI TECHNOLOGY CENTER**

MPI is at its best when it can innovate. MPI prides itself at being able to look at problems and then customize solutions that help clients achieve their goals. The MPI Technology Center is a state-of-the-art wax room that allows MPI to do just that. Located at MPI’s world headquarters in New York, the Technology Center is a hub of innovation, ingenuity, and problem solving. Customers and suppliers visit this sophisticated facility to discover new ways to solve their unique wax-room challenges and to experience a totally automated facility in full operation.

**MPI EXCELS**

Most important, return on investment (ROI) is where MPI excels. MPI supports its customers’ bottom line with creative, customized products and services that fit their evolving needs. Through collaboration, we innovate, design, build, and integrate solutions that deliver measurable results.

**SMART CONTROLS TECHNOLOGY**

MPI’s Smart Controls Technology offers the most advanced controls system in the industry, allowing you to take Control of the Injection Process.

Smart Controls provides a total solution for wax injection, controlling the process, informing the operator, and providing feedback via real-time graphing of the injection cycle.
SMART CONTROLS V2
Control Your Injection Process

PLATEN CONTROL
- Digital Platen Pressure Readout
- Digital Platen Position Control

INJECTION CONTROL
- Real Time Wax Injection Graph
- Displays real-time plot of the injection data versus time
- Records actual Wax Pressure and Temperature at the nozzle tip
- Records actual Wax Flow and Wax Pressure (Requires Injection Control Option)
- Stores baseline injection graph files for process monitoring

TEMPERATURE CONTROL
- 5 Zone control provides the most accurate temperature control in the industry
- Paste wax capability

OPERATOR CONTROL
- 12” Touch Screen Operator Interface running in a Windows Environment
- Easy to use graphical interface
- Process Control Limit Alarms - Notifies and or prevents machine operation anytime the process is outside of its control limits
- Alphanumeric Injection Recipes with unlimited number of stored recipes
- 10 Level User Access Security
- Network ready with remote VPN connectivity

SMART CONTROLS FEATURES & OPTIONS

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<tr>
<td>Smart Purge (Unique MPI feature that provides the most accurate injection process control in the industry)</td>
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<td>Optional Features</td>
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Smart Purge

Programmable Nozzle Positioning

Programmable Platen Pressure Control

(845) 471 - 7630 • mpi-systems.com

WORLDWIDE LEADERSHIP OF WAX-ROOM & CERAMIC CARE INJECTION, ASSEMBLY & AUTOMATION EQUIPMENT