

THE LEADING MANUFACTURER OF  
WAX-ROOM EQUIPMENT  
WORLDWIDE

MPI  
45

## AUTOMATIC HORIZONTAL WAX INJECTOR

*...the innovative, high volume wax injector designed to increase wax pattern quality, quantity, throughput, and ...your bottom line.*

*The MPI45 incorporates the latest MPI systems technology in a compact, automated, cost-efficient unit, designed to increase throughput. Everything about this unit saves you time and money. Both the basic and enhanced robotic configuration are loaded with features that make it a real performer.*

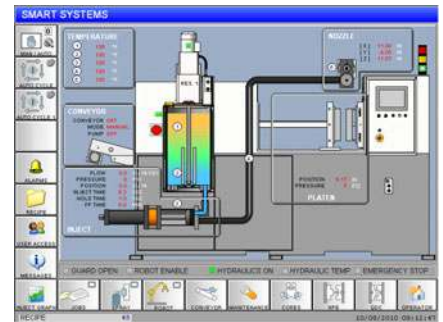
*Check out how MPI's Integrated Robotic Systems offer automated pattern processing from tool to tray, trimming, and coming soon, optical inspection. MPI's Integrated Robotic Systems will dramatically improve the cost effectiveness and efficiency of your wax room.*



Model 45-12

### Process Control

All MPI machines are equipped with **Smart System Process Controls** that provide state-of-the-art process control utilizing user-friendly Windows-based injection control software that features an intuitive touch-screen display. Our Smart System consistently monitors and controls all variables in real time against your pre-established base lines for wax temperature, wax flow, wax pressure, injection time and viscosity, resulting in patterns that are consistent and of the highest quality. This technology eliminates the possibility of accidentally making an out-of-tolerance wax pattern. No one else even comes close.



### Standard Models

**MPI 45-12** 12 ton (10.7 metric tons) 30" (762 mm) daylight

**MPI 45-25** 25 ton (22.3 metric tons) 35" (889 mm) daylight

## Optional Features

### MPI Wax Cell with Smart Controls and Robotics

Fully automated pattem processing, from tool to tray, is now available. Pattens are carefully removed from the tool by MPI Robotics quick change end-of-arm tooling, then runners are automatically trimmed and pattens accurately placed on conveyors, trays, or jigs for final pattem assembly, or interface with the MPI20-10 APAS Automated Pattem Assembly System.

Smart controls are all in one location, easy to read and adjust. A built-in operator interface terminal stores injection programs.



*Fast, accurate, high throughput casting operations*

### Pattem Removal Conveyor

The Model 45 Automatic Injection machine is supplied standard with a conveyor for automatic pattem removal. The pattem is ejected from the tool and dropped into a pool of water where it is allowed to cool before being carried out of the machine frame by the conveyor.



### Jib Crane

The unique combination of Horizontal C-Frame and Jib Crane allow quick, safe change overs of wax dies by a single operator.



### QuickChange Technology

From Die Clamping to instant unloading of pattem "recipes" the MPI 45 is engineered to minimize transition times and maximize the throughput of quality pattens.



### Full Sweep Horizontal Die Lubrication System

Consistent pattem ejection with no sticking is achieved through a fully adjustable, programmable system controlling spray on/off position, number of nozzles, spray frequency, and core lubrication in both extended or retracted position.

