

EXPERIENCE THE DIFFERENCE

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.

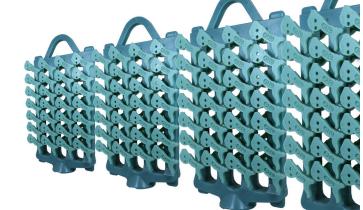
MPI TECHNOLOGY CENTER

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.





SA20-06-06

You Tube Linked in f





MODEL 55IGT-100 WAX INJECTOR shown with optional crane, magnet, & thru-shuttle no

C-FRAME WAX INJECTOR

MPI 55IGT

(845) 471-7630 • mpi-systems.com



MPI 55IGT

C-Frame Wax Injector

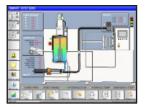
The Model 55 IGT Series wax injector is a C-Frame hydraulic press designed specifically for **Industrial** Gas Turbine products. The machine is available in 50 and 100 ton clamping forces. The C-Frame clamping unit is the most ergonomic for the operator, providing unobstructed access to their work area. The unique frame design allows the operator to remove large patterns without having to climb onto the machine.

- Rigid C-Frame, Parallel Die Opening, Uniform Die Clamping, Easy Die Access
- Smart Controls Process Control, with real time injection graphing
- Injection System Tightest temperature control in the industry
- Inject your wax into your dies at MPI and decide for yourself
- Safely remove wax patterns without climbing the machine
- The only C-Frame IGT press with 3-axis nozzle positioning

Process Control

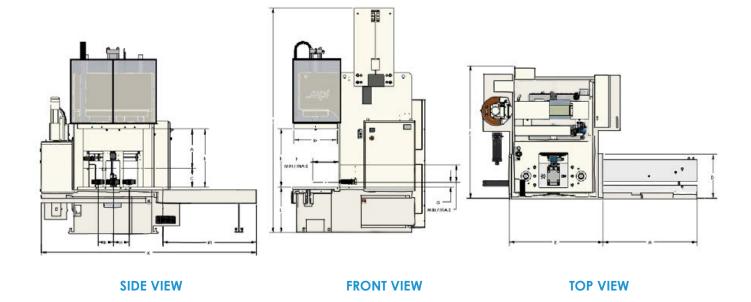
All MPI machines are equipped with Smart System Process Controls that provide state-of-the-art process control utilizing user-friendly

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 baselines 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.



MODEL 55-50 IGT US (60 HZ) 55-100 IGT US (60 HZ) Clamp Force 12.5-50 ton 20-100 ton 40 in 50 in A. Daylight Maximum 6 in B. Daylight Minimum 50 in 60 in C. Width of Platens 132 in 151 in D. Overall Height E. Overall Width 116 in 116 in Wax Reservoir Capacity 30 gal 1130 cu in Single Shot Capacity 400 cu in Injection Pressure 50 - 1000 psi Injection Rate 0 - 15 cu in / sec 0 - 999 sec Injection Time 460V, 60Hz, 3ph Electric Standard 90 psi Air Requirements Machine Weight 23,000 lb 40,000 lb

Notes: Shuttle work table work area reduced when supplied with platen guarding. Optional equipment may alter the machines overall dimensions, weight, and power requirements. The daylight described herein is a nominal dimension. The actual daylight for your machine may be up to 3/8"(9.5mm) less than this dimension. Contact MPI sales department for additional information. We reserve the right to change specifications without notice

Innovative Features

TEE SLOTS

PASTE WAX

wax temperature.

Parallel tee slots on each platen, running perpendicular to the nozzle, provide full coverage die clamping and eliminate stripped threads.



TWO SHUTTLE TABLES

Increase machine utilization by injecting one die while performing die disassembly and pattern removal on a second die.



HYDRAULIC PATTERN EJECTION

Controlled pattern removal from the lower stationary platen.



JIB CRANE

The unique combination of Jib Crane and Hydraulic Shuttle Table allow quick, safe pattern removal and die changeovers by a single operator.



THREE AXIS NOZZLE **POSITIONING**

Total alianment Motor driven x-v-z nozzle positioning allows for die designs with the most direct wax flow



(845) 471-7630 • mpi-systems.com