

# LIMITLESS POSSIBILITIES



## 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.



SA55-25-24  
C-Frame Wax Injector



SA20-06-06  
Automated Pattern Injection Cell

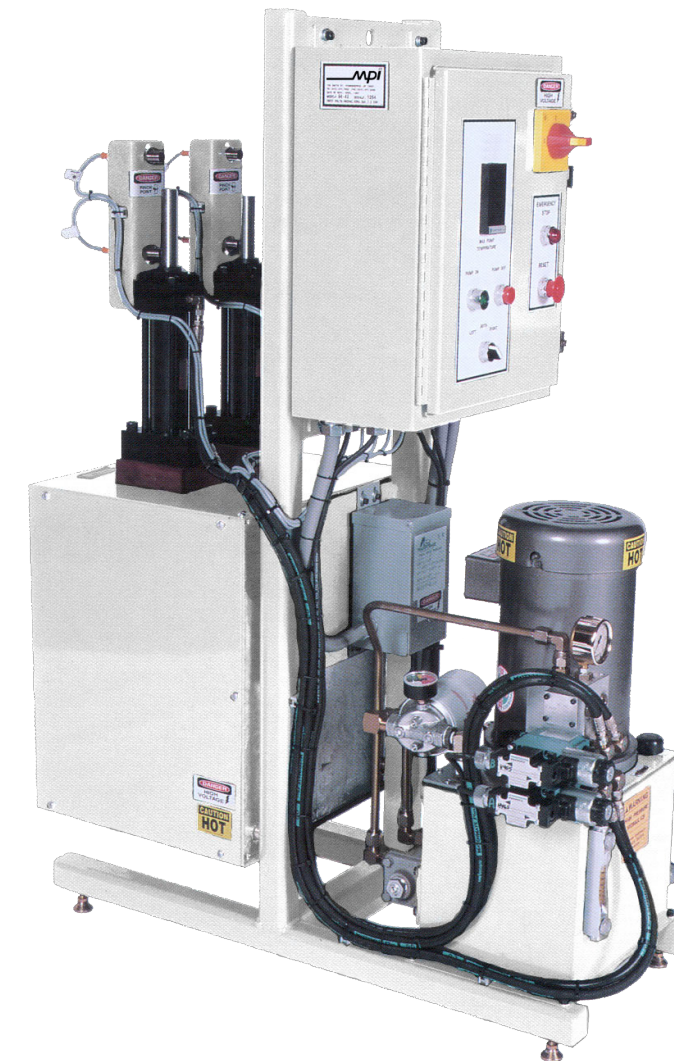
### MPI TECHNOLOGY CENTER

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.

# MPI = ROI



MODEL 96 HYDRAULICALLY DRIVEN WAX PUMP SHOWN

## WAX PUMP MPI 96

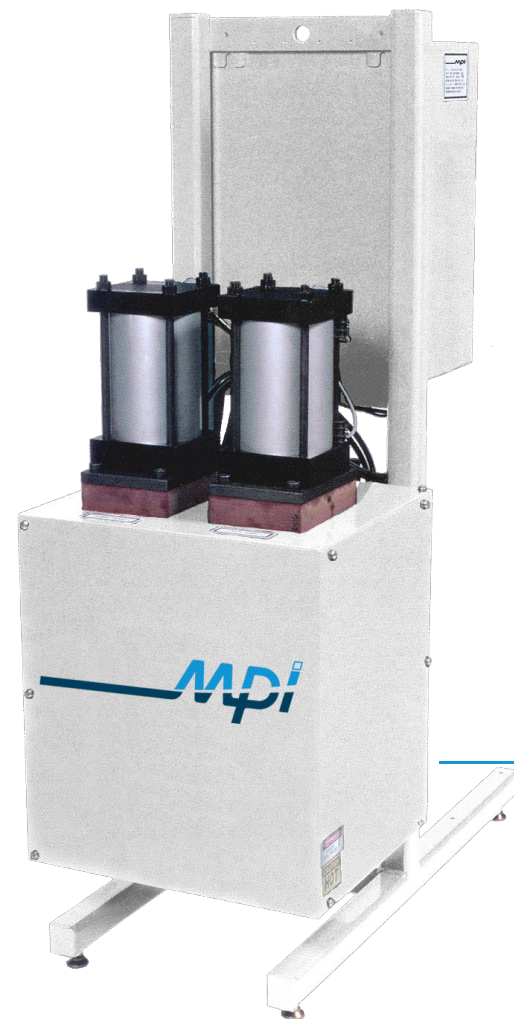


# MPI 96

## Wax Pump

Finally a pump designed for wax:

- Long lasting, smooth operation
- High volume output with less seal wear
- Two single-acting pumps with no downtime
- Available in Hydraulic or Pneumatic versions
- 10 minute seal replacement



### PNEUMATICALLY OR HYDRAULICALLY DRIVEN PUMPS

- A pump perfectly suited to your application
- Pneumatic Pump, 200 PSI (14 bar) - ideal for closed loop or deadheaded wax transfer
- Hydraulic Pump, 700 PSI (49 bar) - ideal for closed loop, long distance wax transfer (e.g., your entire wax room)

### TWO SINGLE-ACTING 42 CU. IN. (0.7L) PER STROKE WAX PUMPS

- Reduced maintenance
- Two pumps alternate for continuous wax flow. Single-acting design eliminates wax rod seals, the highest point of wear on common double acting pumps

### EASY SEAL REPLACEMENT

- MPI's unique design - no downtime
- Replace piston seals while one pump remains in operation; one pump continues to run at half volume (select Pump 1, Pump 2, or both)

### LOW MAINTENANCE WAX VALVES

- MPI's unique design - no downtime
- Check valves are hardened metal to metal for long life

Model	96 (Hydraulic)		96 (Pneumatic)	
	US (60Hz)	METRIC (50Hz)	US (60Hz)	METRIC (50Hz)
A. Overall Height	56 in	1422 mm	56 in	1422 mm
B. Overall Width	38 in	965 mm	38 in	965 mm
C. Overall Depth	21 in	533 mm	21 in	533 mm
Hydraulic Power Pack:				
Motor	5 HP	3.75 kw	N/A	N/A
Hydraulic Pump Output	2.3 GPM	8.7 l	N/A	N/A
Hydraulic Reservoir Capacity	5 gal.	19 l	N/A	N/A
Two Single-Acting Pumps:				
Wax Pressure	670 PSI	46 bar	200 PSI	13.8 bar
Wax Pump Output	2.6 GPM	9.8 l	2.6 GPM	9.8 l
Air Requirement	N/A	N/A	13 CFM @ 80 PSI	.3679 CMM @ 5.5 bar
Machine Weight	750 lb.	340 kg	600 lb.	272 kg

DS-96-07-26-21