

C-FRAME CERAMIC INJECTOR

The MPI 56 Semi-Automatic C-Frame Ceramic Injector is engineered specifically for operation with thick viscosity, abrasive mixtures used to produce ceramic cores, ceramic parts, and MIM (metal injection molding) patterns. The MPI 56 features easy maintenance and fast material changeover. Precise temperature control prevents binder separation and a unique injection valve system reduces wear. The MPI 56 is designed to meet all your thermoplastic binder, abrasive material injection needs.

The MPI 56 is available with clamping force of 25, 38, 50, or 100 tons. An impressive list of standard features and a wide range of options are available. Our engineering support staff is prepared to help determine the configuration that will meet your needs and optimize your throughput.



MPI Model 56-50-27
Shown with optional Light Guard

Built for the abrasive environment

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 injection temperature, injection flow, injection 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.



The MPI 56 features:

- Injection capacity: 10.6, 200, 323 cu in (.17, 3.2, 5.3 liter)
- Horizontal parting line injection
- 2-Axis nozzle positioner
- Ceramic reservoir
- Smart Controls
- Easy Maintenance
- 3 Injection Modes
- Accurate 6-zone ceramic temperature control
- Sliding spool transfer valve
- Hardened injection components
- CE conformity

Optional Features:

- Platen Temperature Control
- Quick Change Die Clamping
- Pattern Ejection

Capacity plus precise control equals improved throughput

STANDARD:

Injection Valve Assembly

The proprietary design of a sliding spool transfer valve reduces wear of the injection piston and injection valve. Less wear means more throughput and less downtime.



Ceramic Reservoir

Easy removal of the mixer motor assembly for reservoir clean out and mix change-over.



Injection Cylinder Piston

The unique design allows easy seal replacement with no tools required. In maintenance mode, the face of the injection piston descends below the cylinder wall. A tee slot allows for quick removal. A new seal can then be installed and the piston quickly repositioned into the cylinder.



Optional Features

Hydraulic Pattern Ejection

Controlled pattern removal from the lower stationary platen.



Tee Slots

Three parallel tee slots per platen, running perpendicular to the nozzle, provide full coverage die clamping and eliminates stripped threads.



Quick Change Die Clamping

Rapid hydraulic clamping of the die to the platens with nozzle to die alignment provides one minute die mounting.



Two Platen Heating/Cooling

This option provides superior die temperature control in production and allows for temperature changes above and below room temperature during die changeover.

