

# Megaject MkV

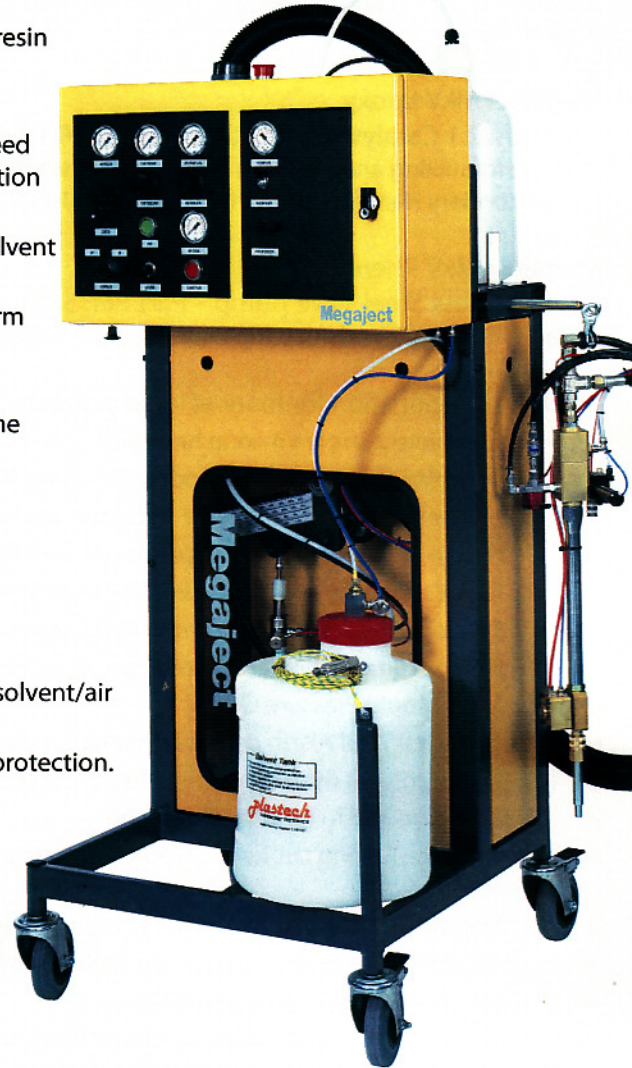


Megaject MkV Polyester Autohead – 5cc Stainless Steel slave pump  
– Part Ref 5818AUTO

Designed for injecting Polyester resins and catalyst at controlled pressures, this machine mixes on demand at the injection head.

## SPECIFICATION:

- Suitable for mixing and injecting Polyester, Vinylester and Methacrylate resin systems. The catalyst ratio can be infinitely adjusted from 0.5% to 3.5%.
- Head auto valves include valve position indicators.
- Built in pneumatic interlocks on both auto head valves provide guaranteed monitoring and security, by preventing the possibility of machine operation without resin or catalyst flow.
- Internal interlocks on both auto head valves prevent the possibility of solvent getting to the mould when flushing the machine head.
- Resin Gel Alarm system (RGA) provides intelligent visual and audible alarm conditions during and after machine injection.
- Battery powered with low battery power alarm.
- Pre-determined counter (PDC), with a count rate of every 100cc. When the pre-determined count is reached the machine stops automatically.
- Mould Pressure Guard (MPG). This feature allows the operator to pre-determine nozzle injection pressure from 0.5 - 8 bar. In operation the MPG will control the output pressure regardless of the machine pressure setting, such that the nozzle pressure will not exceed the pre-determined safe level. Controls are mounted on the control panel.
- Complete 2 stream mixing head with standard static mixer element, air/solvent/air cleaning system and head start button.
- 4m umbilical to head with industrial tough flexible chemically resistant protection.
- Heavy-duty ratio arms with precision roller bearing fulcrums.
- Ratios manually adjusted using low friction lead screws.
- 100cc Primary Resin Pump with inlet hose and filter suitable for a 200kg drum.
- Full instrumentation and control panel, housed in steel lockable cabinet.
- Gel timer with alarm and alarm volume control.
- Timed solvent flush of machine head (cancels gel timer).
- Air purge and head dry out control.
- Safe, 20lt heavy-duty non-pressurised polypropylene solvent tank featuring submersed (SP-3) solvent pump system. Safely positioned, the frame mounted tank offers visual level indication without the need to remove the tank lid.
- Highly efficient solvent/air emulsifier ensuring lower solvent consumption per head flush.
- Emergency stop, air failure machine shutdown with safe automatic restart on reset.
- Machine guards complying with CE Machinery Directive regulations.
- 8 litre catalyst bottle with filtered inlet line.
- Catalyst over-pressurisation, auto machine stop.
- The machine comes with comprehensive commissioning and installation instructions and signed factory test and calibration sheets, where applicable.



Designed to connect to and control: TURBO AUTOSPRUE - Automatic injection valve.  
PV SENSOR – For precise mould pressure control

## NOTE:

The Polyester AutoHead machine described above is only suitable for use with Polyester, Vinylester and Methacrylate resin systems. Should you wish to retain the option of changing the pump over to use Phenolic or Epoxy resins in the future; then the manual head Megaject MkV should be considered, see over.

# Megaject MkV

## Manual Head Megaject MkV

### Megaject MkV Polyester

5cc Stainless Steel slave pump – Part Ref: 5818

Suitable for mixing and injecting Polyester, Vinylester and Methacrylate resin systems. The catalyst ratio can be infinitely adjusted from 0.5% to 3.5%.

### Megaject MkV Epoxy

Part Refs: 2:1 Catalyst Pump Ratio = 5819 OR 1:1 Catalyst Pump Ratio = 5820

Suitable for mixing and injecting Epoxy resin systems. The Hardener ratio can be infinitely adjusted from 8% to 100% when using either: 50cc secondary Hardener pump (2:1) 8% - 50% 100cc pump (1:1) 20% - 100%

### Megaject MkV Phenolic

20cc Stainless Steel slave pump – Part Ref: 5821

Suitable for mixing and injecting Phenolic resin systems. - The catalyst ratio can be infinitely adjusted from 3% to 20%.

### Machine specification for manual head polyester, epoxy and phenolic:

- Complete 2 stream mixing head with standard static mixer element, air/solvent/air cleaning system and head start button.
- 4m umbilical to head with industrial tough flexible chemically resistant protection.
- Manual Resin and Catalyst re-circulation at head with manual valve interlocks.
- Heavy-duty ratio arms with precision roller bearing fulcrums.
- Ratios manually adjusted using low friction lead screws.
- 100cc Primary Resin Pump with inlet hose and filter suitable for a 200kg drum.
- Full instrumentation and control panel, housed in steel lockable cabinet.
- MPG, Mould Pressure Guard.
- RGA, Resin Gel Alarm provides intelligent visual and audible alarm conditions during and after machine injection.
- Timed solvent flush of machine head (cancels RGA).
- Air purge and head dry out control.
- Pre-determining stroke counter (count rate every 100cc). When the predetermined count is reached the machine is stopped automatically.
- Frame mounted 20lt heavy-duty polypropylene non-pressurised solvent tank with submersed solvent pump system, SP-3.
- Highly efficient solvent/air emulsifier ensuring lower solvent consumption per head flush.
- On board mould vacuum facility.
- Emergency stop, air failure machine shutdown with safe automatic restart on reset.
- Machine guards complying with CE Machinery Directive regulations.
- Catalyst over-pressurisation, auto machine stop
- The machine comes with comprehensive commissioning and installation instructions and signed factory test and calibration sheets, where applicable.

Designed to connect to and control: TURBO AUTOSPRUE - Automatic injection valve.

PVSENSOR – For precise mould pressure control

For more information, contact:

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