

CIJECT 2

Equipment Information

CIJECT 2 with Integrated Tanks



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The most sophisticated machine in the range, the CIJECT Two is based around a powerful modular touchscreen PLC, enabling the addition of a wide range of options and control functions.

Features include:

- Fully enclosed cabinet with full operator control
- Mixed output from 0.1kg up to 10kg per minute (resin viscosity dependent)
- Injection pressure range: -1 to 9 bar gauge.
- Injection Valve included as standard, to provide a clean and efficient process.
- In mould pressure sensors (IMPS) can be connected to the machine to enable pressure control based on internal mould pressures.
- Fully automatic open / close mixing head.
- Low volume / high velocity mixing head flush system, to ensure simple and quick cleaning with minimal solvent use.
- 20 litre non pressurised solvent tank
- Unique hardener monitoring system.
- Catalyst system includes return isolation valve to provide additional security.
- In-line resin and hardener filters to allow cleaning without removing loading hose from material
- Purpose designed resin and 316 stainless steel hardener pumps for high reliability and simple maintenance.
- Seals designed and tested for service life in excess of 250000kg of resin.



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Control System:

- 110-240V industrial Siemens modular PLC
- 7" colour HMI touch screen 480x320 resolution with adjustable brightness / contrast
- Datalogging to USB, in .csv format.
- Intelligent machine program - prevents operator error (eg flushing while injecting)
- Over 100 recipes for operator programmes
- Password protection for configuration and programming screens
- Programmes enable input of injection volume, injection pressure, start and end hardener percentage.
- Machine operation log screen records machine actions
- Average flow rates displayed during injection.
- Automatic recirculation feature with used programmable timers.
- Automated flush sequence
- Adjustable flush alarm to warn operator if flush has not been carried out
- Adjustable machine stall warning / alarm.



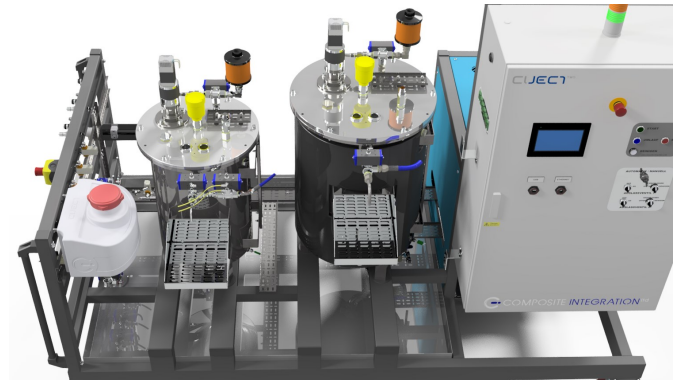
Machine Options Included:

- Solvent level sensor
- Resin and hardener flow meters
- Pre injection vacuum test
- IMPS Input Module - 2 input.
- Data recording

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Dual Tanks: 150 Litre & 50 Litre

- Frame built, integrated with injection machine.
- Reinforced flange
- Silicone lid seal
- Conical base
- Tanks specified to allow use with vacuum down to 1mb Abs
- Through lid vent / isolation ball valve
- 2 x cable / pipework mounting saddles on side of tank.
- Tanks specified to allow used with vacuum down to 1mb Abs
- K type thermocouple mounted through the base of the tank for accurate material temperature monitoring.



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- Lid mounted microwave level sensing unit.
- Provides 4-20mA output as part of integration to CIJECT injection machine PLC for intelligent level monitoring.
- Filtered air inlet, with desiccant, to prevent moisture entering the tank.
- Tank mounted pressure sensor - 0-1.6 Bar absolute.
- CIJECT machine provides software control of the degassing process, and vacuum monitoring of the material tank.,
- Actuated material sampling point, for use while the CIJECT machine is in recirculation mode.
- Includes container platform for sampling container.
- Water tank heating, including integral fabricated stainless steel water jacket to enable accurate tank heating.
- Electrically powered, low speed stirrer, mounted through the tank lid.
- Includes simple on / off control, with additional control through the CIJECT injection machine.



Material Tank Options:

- Integration with CIJECT injection equipment.
- Water heating (on A Component tank)
- Vacuum rated for degassing for A Component tank.
- Electrical agitator.
- Pressure sensor for vacuum monitoring during degassing.
- K Type Thermocouple for monitoring resin temperature.
- Onboard vacuum pump system, supporting degassing and vacuum loading of material tanks.
- Actuated material sampling points.
- Microwave level sensing.