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smart M

Smart Mixing, Metering & Dispensing & control system

Product Description	Automated Degassing, Metering, Mixing and dispensing system, for 2K epoxy resin. All system operations are controlled via user friendly design HMI using full colors 12" touch screen.

Features & Benefits	● High accuracy, Variable Mix Ratio from 1:1 to 20:1 ● Continuous controlled flow via Dynamic/Static mixer. ● Unique integrated compact design, CE marked ● High Flow Rate at Low Pressure, up to 2 liters per minute.

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High Volume Degasing Tank

Tank	Standard	38 liters (10 gallon) Stainless Steel Pressure Tanks
	Optional	57 liters (15 gallon)
Heating	Standard	No heating, only silicone rubber insulation jacket.
Feeding	Standard	Hand operated ¾" feeding ball valve, via 1" PVC steel wire feeding hose.
Level sensing	Standard	Two, High/Low level, DC capacitive proximity sensor.
Tank outlet	Standard	Hand operated 1" ball valve, via 1" Teflon/Stainless steel braided hose.

Low Volume Degasing Tank

Tank	Standard	18 liters (5 gallon) Stainless Steel Pressure Tanks
	Optional	38 liters (5 gallon)
Agitator Drive	Standard	No agitator
Heating	Standard	No heating, only silicone rubber insulation jacket.
Feeding	Standard	Hand operated ¾" feeding ball valve, via 1" PVC steel wire feeding hose.
Level sensing	Standard	Two, High/Low level, DC capacitive proximity sensor.

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	Tank outlet	Standard	Hand operated 1" ball valve, via 1" Teflon/Stainless steel braided hose.
High Volume Metering Pump	**Pump Type**	Standard	Precise, consistent and reliable Progressive Cavity pump. Flow rate up to 1.2 liter per minute.
	Pump Drive	Standard	200W Servo motor via 20:1 planetary gear, for pulsation-free, constant metering.
	Pump Heating	Standard	No heating
	Pressure Sensor	Standard	0-40 bar Pressure Sensor. Corrosion resistant, stainless steel, with internal and front flush diaphragm.
Low Volume Metering Pump	**Pump Type**	Standard	Precise, consistent and reliable Progressive Cavity pump. Flow rate up to 0.6 liter per minute.
	Pump Drive	Standard	200W Servo motor via 20:1 planetary gear, for pulsation-free, constant metering.
	Pump Heating	Standard	No heating
	Pressure Sensor	Standard	0-40 bar Pressure Sensor. Corrosion resistant, stainless steel, with internal and front flush diaphragm.
High Volume Supply Hose	**Pressure hose**	Standard	Pressure resistant and chemical resistant PTFE-

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		inner house, 3/8" inner diameter with Stainless steel braided sleeve.
Hose fittings	Standard	High pressure and thermal shock resistance JIC flare fittings.

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Low Volume Supply Hose	**Pressure hose**	Standard	Pressure resistant and chemical resistant, steel braided, PA6 tube - 1/4" inner diameter.
	Hose fittings	Standard	High pressure and thermal shock resistance JIC flare fittings.

Mixing Head	**Mix Head**	Standard	GP18 Static-Dynamic mixing head with pneumatically controlled, 2 material ports for resin and 1 flushing port.
	Mixer Drive	Standard	High Speed, 0.22 hp air motor.
	Static Mixer	Standard	Rotary static mixers, MSR 13-12T, 13mm ID 12 mixing elements.
	Mixer Sleeve	Standard	Custom made, stainless steel protective sleeve with POM end adaptor for injection hose connection.

Solvent Flush	**Solvent Tank**	Standard	9 liters (2.5 gallon), lightweight, aluminum, pressure tank, with internal polyethylene tank liner.
	Pressure hose	Standard	Pressure resistant and chemical resistant, steel braided, PA6 tube – 1/8" inner diameter.
	Hose fittings	Standard	High pressure and thermal shock resistance JIC flare fittings.

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Control System	PLC	Standard	Unitronics Vision V1210 PLC with built-in operating panel, 12.1" Color Touchscreen
	I/O Expansions	Standard	1 x V200-18-E4XB
	Power Supply	Standard	2 x OMRON 24V/480W power supply modules.
	I/O Details	Standard	4 x Thermocouples J inputs 2 x Analog Outputs 16 x Digital Inputs 16 x Digital Outputs