



PRODUCT DATA SHEET

TSM50FR AND TSM120FR

2-COMPONENT MIX AND DISPENSE SYSTEMS

The TSM50FR and TSM120FR are fixed ratio metering, mixing and dispensing machines that are pneumatically powered and digitally controlled utilizing PLC, HMI touch screen technology enabling a wide range of electrical accessories and easy robot interface.

These meter mix systems employ a parallel drive system with positive displacement pump technology to ensure repeatable, accurate volumetric metering, mixing and dispensing of low to medium viscosity two-part resin systems.

These compact machines are simplistic in their format and flexible in their design to accommodate a range of optional extras to suit the wide range of available resins and differing customer application needs.

The TSM50FR is capable of dispensing (depending on ratio) mixed material from 2 to 50cc. The TSM120FR will dispense from 5 to 120cc to within +/- 1% volumetric accuracy. The TSM50FR is a low cost investment and an economical solution to what is often an inefficient and hazardous process.

These mix and dispense systems can be used in bonding, encapsulation, potting, sealing and insulating applications for all industries.

KEY FEATURES

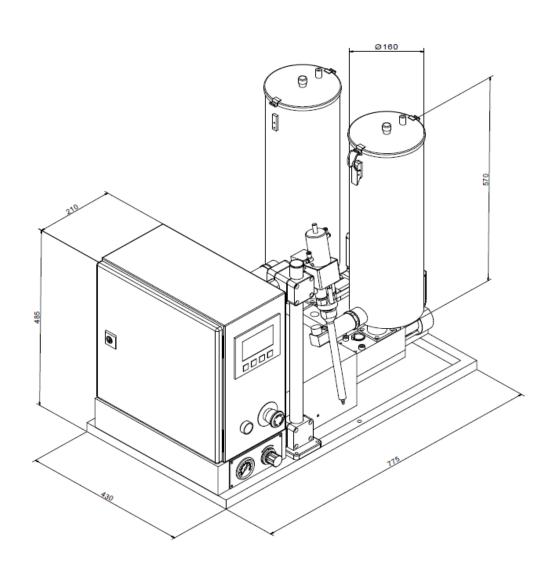
- Volumetric metering and mixing
- Accurate and repeatable up to ± 1%
- Fix ratio from 1:1 to 10:1
- PLC, HMI touch screen
- Adjustable shot size

TYPICAL APPLICATIONS

- Bonding
- · Encapsulation and Potting
- Sealing
- Insulating



SPECIFICATIONS	TS50FR	TSM120FR
MIX RATIO OPTIONS	1:1, 2:1, 4:1	1:1, 2:1, 4:1, 10:1
SHOT SIZE RANGE	2 - 50 CC	5 - 120 CC
MAXIMUM VISCOSITY	150,000 cps. (self-level)	150,000 cps. (self-level)
ACTIVATION	FOOT SWITCH & PLC	FOOT SWITCH & PLC
METERING REPEATABILITY	+/- 1%	+/- 1%
OPERATING PRESSURE	100 psi	100 psi
MIXING	DISPOSABLE STATIC MIXERS	DISPOSABLE STATIC MIXERS
TANK CAPACITY OPTIONS	3, 5, 7, 10 Liter	3, 5, 7, 10 Liter
MECHANISM	PARALLEL DRIVE, POSITIVE DISPLACEMENT	PARALLEL DRIVE, POSITIVE DISPLACEMENT
CONTROLL PANEL	DIGITAL, HMI TOUCH SCREEN	DIGITAL, HMI TOUCH SCREEN
POWER (DIGITAL)	SINGLE PHASE 110V & 220V	SINGLE PHASE 110V & 220V
DIMENSION (W X D X H)	30.5" X 16.9" X 22.4" (775 X 430 X 570 mm)	30.5" X 16.9" X 22.4" (775 X 430 X 570 mm)
WEIGHT	88 lbs (40 kg)	110 lbs. (50kg)



Equipment	Standard Features	Optional Features
Tanks	 10 L SS tank with clamped, sealed lid and moisture trap 5 L SS tank with clamped, sealed lid and moisture trap 3 L SS tank with clamped, sealed lid and moisture trap 7L polyethylene reservoir 	 Low level sensor with visual and audible alarm Tank stirrer electric, control on HMI Tank stirrer pneumatic Tank heater with built in thermostat and power cable. Off/On via HMI
Metering Pumps	 Part 'A' pump is EN40 anti-abrasive pump tube and glass filled nylon piston. Part 'B' pump 303 stainless steel pump tube 	Part B pump EN40 anti-abrasive pump tube and glass filled nylon piston
Mixing Head	1/4BSP stainless steel 4/4 or 4/2 port machine mounted	 Hand held, trigger operated 5/3 or 5/3/5/ ported Ratio check blocks Seal cap
Hoses	Standard length x 1/8 or ¼ or 3/8 or ½ inch bore PTFE lined stainless steel braided, m/s end fittings, from pump to machine mounted mixer	 1/8 or ¼ or 3/8 or ½ inch bore PTFE lined m/s SS end fittings 2 or 3 meters long Heated and temperature controlled hose
Machine Control	 PLC, HMI touch screen Full Shot / Operator control Stalled shot, pumps inch down the pump tube against closed mixer LSA shot size control, limit switch on movable lead-screw Foot pedal actuation Anti –gel timer on HMI Shot counter repeater on HMI 	 Kinecheck shot speed control Re-circulation after NRV back to reservoir Service kit for pump and mixing head Hand held trigger actuated if hand held I/O integration

