



Meter Mix Dispense

| X-100 |



The X-100 from Fluid Research is a positive displacement, single component dispensing system that uses a progressing cavity pump to ensure dosing with the strictest accuracy, repeatability and dependability.

The X-100 can dispense almost any type of material including adhesives, abrasives, viscous materials and even pastes, and it ensures consistent dispensing independent of material supply conditions. Exceptionally reliable units feature both timed and continuous flow user-defined programs and dispensing unique shot sizes and rates is as easy as a few keystrokes.

System calibration is simple, fast and uses little material. Just take a few dispense shots, weigh, and input these numbers into the control system and the controller does the rest.

This self-priming unit also has a programmable runback feature that ensures no-drip dispensing. A pulse of the progressing cavity pump in reserve after dosing will virtually eliminate dripping or leaking and provides a clean thread break.

#### **X-100 Components & Integration**

The X-100 can be supplied with a pump assembly, a tabletop control unit and all associated cabling and hardware. The pump assembly includes an appropriately sized progressing cavity pump, a planetary gearbox and a servo-motor. An optional tabletop stand for the pump is available.

X-100's control box is constructed of coated steel and features a digital HMI, an On/Off button, a "Machine Ready" indicator, a "Low Level" indicator for an external level sensor, and an emergency stop button. The control box also provides simple integration to remote control of the unit.



*Single Component  
Dispensing*

The X-100 can be either a standalone unit or be integrated into a larger system. Using the Start, Stop, and 5 Bit Digital Interface, you can integrate the X-100 into almost any application.

## STANDARD FEATURES

- Simple, Easy-to-Use Digital Controls
- Extremely Gentle Material Conveyance
- Positive Displacement
- Viscosity Range :
  - Gravity Feed - 1 cps through 50,000 cps
  - Pressure Feed - Up to 100,000 cps
  - Pail ram feed – Up to 1 million cps
- Program Storage:
  - 75 Total Timed/Continuous Flow Rate
- Programmable Reverse Flow(Runback)
- 1 1/2" Tri Clamp Inlet Connection
- Self Priming
- Password Protected
- Various Pump Size/ Configurations Available
- Automation Interface-5 Bit Digital Interface
- All Associated Cabling and Hardware
- Power Requirements- 100-240 VAC, 50/60 Hz

## AVAILABLE OPTIONS

- 5 Gal Pail Ram
- 55 Gal Drum Ram
- 1/10th Gallon Cartridge Pusher
- Washdown Parts
- Pressure Tank
- Food Grade Stainless Steel
- Overpressure indication with sensor
- Shots after empty
- Auto-recirculation
- Low Level Sensor
- Tabletop Stand for Vertical Mounting



SERVO Motor & Dispensing Pump

Digital HMI Interface



## About Fluid Research

Fluid Research Corporation is a recognized leader in the engineering and manufacturing of meter, mix and dispense equipment for both single and plural component reactive materials including epoxy, polyurethanes, silicones, acrylics, adhesives, paints, pastes, abrasive materials and more.

FRC equipment is used in potting, encapsulation, coating, resin transfer molding (RTM), structural bonding, gasket forming, filter manufacturing, doming and sealing operations, and many other applications. FRC serves a variety of industries including electrical, electronic, medical, aerospace, marine, white goods, leisure, food, communications, automotive, and other markets.

FRC customers range from Fortune 500 businesses to small, niche market organizations and the company specializes in off-the shelf systems and highly customized solutions.

