



AEROSPACE INDUSTRY

Fluid Research is a manufacturer of meter mix equipment designed to dispense thermoset resins commonly used in the composites industry, including recreational aerospace and defense applications.

SOLUTIONS FOR THE COMPOSITES INDUSTRY

- Direct Die Injection Pultrusion
- Edge Fill
- Encapsulation
- Filament Winding
- Insert Potting
- Liquid Shim
- RTM/VARTM
- Sealing/Gasketing
- Structural Bonding



Interior Components



Aviation Electronics

MATERIALS PROCESSED

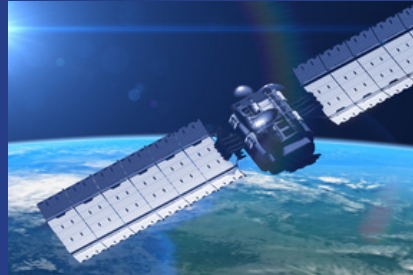
- Acrylics
- Epoxies
- Methyl Methacrylates
- Polysulfides
- Syntactic Epoxies
- Urethanes
- Urethane Foams
- Winding Resins

DISPENSING SOLUTIONS FOR THE COMPOSITES INDUSTRY

Fluid Research offers customized fluid management and dispensing systems that ensure the quality standards in the production of interior and exterior aerospace applications are met.



Defense Industry



Space Industry



Structural Applications

VERSAMIX®

The VersaMix® meter mix system is designed to simplify two component dispensing with a versatile, highly engineered design. This dual servo-driven, variable ratio system offers ultimate control of shot size and volume with repeatable results across materials.



FEATURES

- Variable flow rate and shot sizes
- Independent speed control of dissimilar materials
- Programmable dispense volumes

TECHNICAL DATA

- Ratio range: 1:1 to 10:1
- Drive system: Dual servo driven
- Metering device: Positive displacement pumps (piston or rod)
- Viscosity Range: Liquid to paste
- 10 to 15 cycles/min or more (dependent on viscosity)

Signature Series

The Signature Series is powered by Fluid Research's proprietary Sentinel Logic® software, which includes a touchscreen interface giving the user control and access to many process parameters. This includes flow rate, ratio, shot volumes, heater controls, and day tank status. The platform's flexibility offers easy integration of optional flow meters, auxiliary components, and multiple process variables. It can manage an almost unlimited number of programmed dispense profiles including ratio, flow rate, and mass.

TECHNICAL DATA

- Ratio Range: 1:1 to 20:1 PBV
- Flow Rate: 0.02 cc to 98 cc per second @ 1:1 PBV
- Shot Size: 0.02 cc to 10,000 cc @ 1:1 PBV
- Viscosity Range: 1 to 1,000,000 cps
- Accuracy: +/- 1%
- Shop Air: 100 psi 2-5 SCFM
- Power: 120 – 240 VAC single phase and 208 VAC 3 phase, 50/60 Hz



Fluid Research is a manufacturer of metering, mixing, and liquid dispensing systems, including both standard and specialized benchtop and fully automated machines for any size job. With over 45 years of experience, Fluid Research is the knowledge leader in liquid control delivering high quality dispensing solutions for your application and full technical support.

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