

**PRODUCT**

**TWINFLOW MICRO FR/VR**

The Twinflow micro range of metering, mixing and dispensing equipment is available in fixed ratio or variable ratio.

The Twinflow Micro range is suitable for processing epoxies, polyurethanes, silicones, acrylics and other 2 part flowable resin systems safely whilst improving cost efficiency, cleanliness and accuracy.

The Twinflow micro is fitted with the 'Posiload' positive displacement pumps and precision rod pumps, industry proven for more than 40 years. These pumps have a metering accuracy of better than +/- 1% repeatability with a unique micro metered minimum shot size of 0.01cc at a 1:1 ratio. The volumetric ratio range is from 1:1 to in excess of 50:1 depending on pump selection.

In its standard form the Twinflow micro is an all pneumatic machine with air cylinder drive and unique variable ratio adjustment mechanism, ensuring accuracy of ratio control and easy adjustment if required. With additional options the Micro can be PLC controlled for optimum control and to interface with external automation.

This compact bench mounted machine has a static mixing head or can be hand held. Both options can be trigger operated or remote robot mounted.

The Twinflow Micro is the ultimate machine for micro shot metering, mixing and dispensing of 2 component resins.



TWINFLOW MICRO FR/VR



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# Technical Specification

	STANDARD FEATURES	STANDARD OPTIONS
EQUIPMENT	FR1/VR1	FR1/VR1
Reservoir Tanks	<ul style="list-style-type: none"> <li>• 3L or 5L 304 stainless steel</li> <li>• Sealed lids and silica gel trap</li> <li>• Direct feed to pump</li> </ul>	<ul style="list-style-type: none"> <li>• Other sizes available</li> <li>• Heating and control</li> <li>• Feed from external supply</li> <li>• Vacuum reservoirs</li> <li>• Level sensor, audible warning</li> <li>• Pneumatic stirrer or electric stirrer</li> <li>• Filter 2mm mesh</li> </ul>
Metering Pumps	<ul style="list-style-type: none"> <li>• 'Posiload' positive displacement pump size range 7.5 - 25ml</li> <li>• Precision rod displacement pump size range 2mm - 8.0mm</li> <li>• Shot size range 0.05 to 25cc</li> <li>• Variable ratio mechanism</li> <li>• Ratio range from 1:1 to 50:1</li> <li>• Depending on pump combination</li> <li>• Viscosity acceptability 100,000cps</li> <li>• Drive - pneumatic 63mm air cylinder</li> </ul>	<ul style="list-style-type: none"> <li>• Heating and control</li> <li>• Quick release mounting</li> <li>• Shaft lubrication</li> <li>• Anti-abrasive components</li> </ul>
Mixing Head	<ul style="list-style-type: none"> <li>• Twinmixer</li> <li>• Machine mounted</li> </ul>	<ul style="list-style-type: none"> <li>• Rotary/Static mixing head</li> <li>• 1/8 twinmixer</li> <li>• Material re-circulation</li> <li>• Shut off and snuff back valves</li> <li>• Remote mounted</li> <li>• Tungsten carbide anti-abrasion</li> </ul>
Shot Size Control	<ul style="list-style-type: none"> <li>• Adjustable pneumatic trip</li> <li>• Shot size from 0.01cc to 25cc dependent on pump selection</li> <li>• Actuation by foot pedal</li> </ul>	
Pneumatic Options		<ul style="list-style-type: none"> <li>• Anti-gel timer</li> <li>• Shot control/repeater</li> <li>• Extra function</li> </ul>
Drive Options		<ul style="list-style-type: none"> <li>• Electric drive</li> <li>• Fixed ratio mechanism</li> </ul>
Machine Control	<ul style="list-style-type: none"> <li>• Pneumatic on/off</li> <li>• Regulated pneumatic speed control</li> <li>• Shot size - with rotary dial number selection</li> <li>• Actuation via foot valve</li> </ul>	<ul style="list-style-type: none"> <li>• P.L.C. control for all functions with HMI interface</li> <li>• I/O for interface with remote control</li> <li>• Hydraulic speed control</li> <li>• Pneumatic anti-gel timer</li> <li>• Pneumatic shot counter/repeater</li> <li>• Linear transducer shot size control</li> </ul>

