

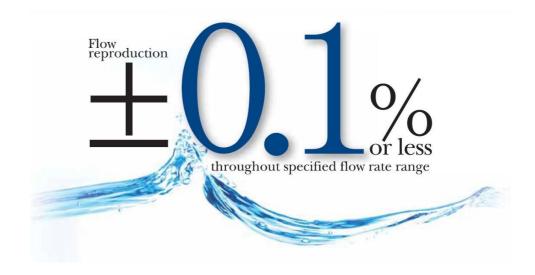


UK and European distributor for the Fuji-Techno range of Super-Metering-Pumps

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The most accurate metering pumps in the world



HY Super Metering Pumps



















The most accurate metering pumps in the world

in effect, high performance dosing pumps - precision instruments used to accurately transfer controlled volumes of liquids, at constant flow rates, with a wide range of discharge pressures, into a process or system.

Typically they offer accuracy a triple plunger system in the region of $\pm 1\%$, but one company has been quietly manufacturing its own unique design of metering pumps that raises the bar to liquid being pumped completely new levels of accuracy and control.

s long ago as 1983, after years of research and development, Fuii Techno Industries, of Japan, launched a range of innovative Super significantly improve performance, with astonishing pumping accuracy of ±0.1% or less!

Not only that, but because of their unique design, they produce no pulsations in the discharge cycle being preflow of liquid.

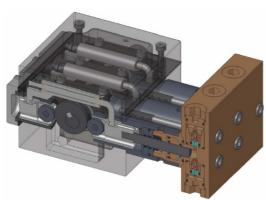
No other pump is able to match the accuracy and performance of the SMP. The pumps are most suited

etering pumps are, to applications and prochigh level of accuracy and control, the SMPs are quite literally in a class of their own.

uji-Techno's Super Metering Pumps are made up of a pump head, an electric motor and driven by a specially designed cam that controls the motion cycle of the plungers. The enters and exits the pump head through suction and discharge valves, filling each of the three chambers with a precise volume of liquid as each piston, or plunger, withdraws on its suction stroke. Metering Pumps (SMPs) that The liquid is then discharged as each plunger re-enters its chamber.

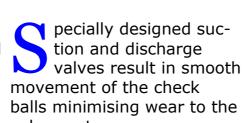
> The three plungers work in perfect equilibrium with each other. The timing of each plunger's suction and so that the total liquid discharged from the pump is highly accurate and constant with no pulsations in the flow. The plungers are

designed to make different esses that require this ultra- motions in six stages within one revolution of the cam and in harmony with each other. For example, the first plunger starts its discharge stroke with the cam at 0°, the second plunger starts at 120°, and the third at 240°. It is this unique operation that ensures constant flow with no pulsations.



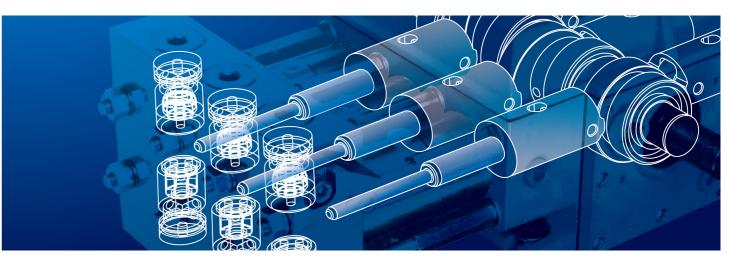
tion and discharge valve seats.

This ensures high accuracy is maintained over long periods of operation, and cisely controlled by the cam, eliminates the possibility of the valves themselves causing pulsations or leakage. A variety of Pump Head materials offer additional flexibility.

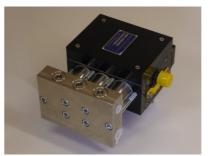




• pharmaceutical and chemical processing • urethane and other resins • chromatography • explosives, • food processing • film • spraying and coating applications • cosmetics • line mixing for liquids • in-feed for extruders • water treatment



These range from Stainless An air-free barrier for air or Steel, Hastelloy and also Titanium to metal-free heads



in PTFE and PEEK.



The pumps can be fitted with liquid and gas purge fittings to enable piston back-flushing, extending their flexibility.



moisture reactant liquids, such BuLi can be achieved.



Heating and cooling jackets to facilitate maintaining constant temperature in the pumped medium are also available.



uji-Techno have recently launched a cost reduced version of their portable unit for HPLC applications.

The new portable unit is fitted, as standard, with a Hastelloy pump head, Kalrez O-rings and DLC coated Hastelloy plungers.

The unit, with the size 08 plungers, is capable of delivering up to 108.6ml/min (217.2ml/min with double head) at pressures up to 98Bar.

The combination of Hastelloy wetted parts and Kalrez gaskets makes this pump unit suitable for a wide range of applications where aggressive chemicals are used.



Iso available are our Pump Drive Assemblies (PDA) and Pump Turn-Key Systems (PTS) providing additional flexibility for integration to customer specific requirements.

