

Zaxis Inc.

Vmp Series positive displacement dispensing system

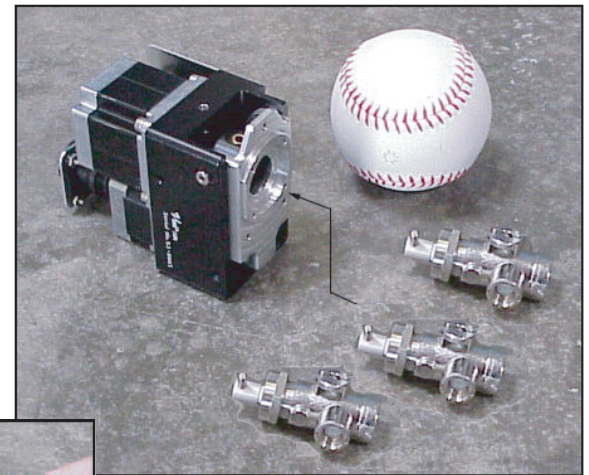
What makes the Vmp different

The Vmp uses a typical industry standard precision stepper motor driven valveless metering pump. Providing an accurate repeatable shot. What makes this system different is a second stepper motor. This allows for ultra fine adjustments to be made to the shot size by changing the stroke length of the pump. Fine tune your shot for your needs. No guessing and no tools.

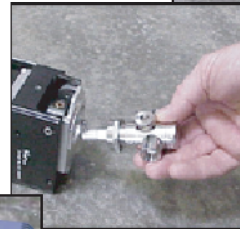
The system can be freestanding or can be integrated into an existing system.

The XI controller makes changing setups easy

The user-friendly operator interface provides simple entry functions to adjust the shot volume, how many cycles to get to that volume and speed of your shot. 100 stored programs let you change between setups on the fly.



One drive with multiple pump head options. Change pump heads in minutes.



Typical Applications

Medical.....dispensing, adhesives lubricants, chemicals, drugs, mixing, syringe pump replacement, clinical chemistry.

Industrial.....metering and mixing of paints, pigments, resins, photo chemicals, solvents, adhesives, lubricants, epoxy, inks

Electronics.....metering ceramic slurries, encapsulating, flux, wash and etch solutions

Food and dairy.....candy coating and polishing, vitamin fortification, flavors, colors, preservatives.

Precision Cleaning.....metering concentrated cleaning agents in automated washers for lab glass

Cosmetic and Hygiene.....pigments, fragrance, color mixing systems

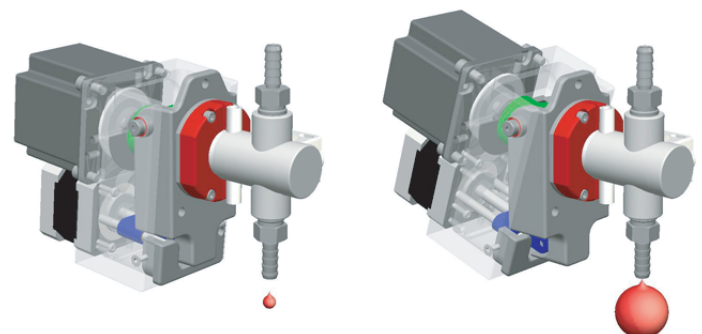
Features

- Ultra fine adjustment..... **0.0144uL per step**
- Chemical compatability.....**Ceramic and fluorocarbon fluid path**
- High duty cycle.....**84 million cycles**
- Electronic controller.....**Easy set up**
- 100 stored programs..... **Run multiple operations with one system**
- Foot switch or remote start.....**Robot as host**
- Stand alone or panel mount.....**Flexible mounting to meet diverse needs**
- Gang systems together for meter mixing.....**Epoxy, and chemical mixing**

Theory of operation

The valveless pumping/ dispensing function is accomplished by the synchronous rotation and reciprocation of the ceramic piston in the precisely mated ceramic cylinder liner. One complete piston revolution is required for each suction/discharge cycle .

The variable shot function is accomplished through the use of two independently controlled stepper motors. No tools needed, no dials to adjust. No mistakes. One motor adjusts the shot volume by changing the angle of the pump head lengthening or shortening the stroke of the pump. The second motor controls the valveless pump, dispense speed and frequency of the shot.



Small shot Short Stroke

Large shot Long Stroke