

Syringe Mixer

Uniform Dispensing for Mixed Fluids that Separate



The GPD Global® Syringe Mixer keeps fluids that tend to separate continually mixed so a consistent blend of fluid is constantly available throughout your application process.

Fluids consisting of two parts, one of which is not soluble in the other, can be difficult to dispense. Even though the parts may be mixed well at the beginning of a process, separation of the two parts occurs during the process resulting in differing concentrations of fluid being dispensed.

The syringe mixer is particularly useful for LED Encapsulation applications because the encapsulant consists of two parts - a fluid and a powder - that if not mixed continually, will settle and separate over time.

A syringe mixer is an engineered mixing element inserted into a syringe or cartridge and rotated at an adjustable speed. Continual agitation

of the fluid prevents the fluid parts from settling and separating from each other. The result is uniform dispensing of your application from start to finish.



Syringe mixing speed is set by the operator. An easy-to-use dial allows for easy, repeatable setup. Power for the syringe mixer is integrated into and controlled by the GPD Global® system. The syringe mixer can be interfaced with and controlled by other robotic systems using a provided 24 volt power supply.

The syringe mixer can accommodate a maximum fluid viscosity of approximately 15,000 cps. Low viscosity fluids are easily accommodated and typically run at a higher mix speed than high viscosity fluids



Cleaning the syringe mixer is very easy. The wetted parts are disposable and available in a variety of lengths and sizes to accommodate your application.