



PAR 2P PAR 2E

The **PAR 2P** and **PAR 2E** are compact metering and mixing machines which could be used especially for electronic encapsulation applications. They are specifically developed for dispensing small discrete shots of homogeneously mixed two-part materials, for example epoxy, polyurethane or silicone. Thanks to mechanically linked positive displacement rod-metering pumps, the **PAR 2P** and **PAR 2E** machines could provide a precise metering of micro shot sizes down to 0.04 ml. This provides absolute precision in the electronic encapsulation process as well as in other applications.

The **PAR 2P** metering system is supplied with a cost-effective, pneumatically operated, drive unit whilst the major benefit of the **PAR 2E** is the electric servo drive speed and shot size control. Both machines provide a secure, proven fixed ratio metering control unit during the dispensing process. Furthermore, the lightweight construction allows direct installation onto an articulated robot or the Meter Mix® XYZ System Cartesian robot for an accurate point of application dispensing. For a full or semi-automatic application, the **PAR 2P** & **PAR 2E** can also be connected to automated systems. Due to the very robust and proven metering and mixing principles, the dispensing systems provide an excellent solution for small shot metering. They are available with a benchtop framework and foot pedal actuation.

- Bench top machine
- Twin non-return valve injection block assembly with static mixer outlet
- "Metered Shot" mode on the PAR 2P
- Metered" & "Operator Controlled" shot size selection on PAR 2E
- Shot size adjuster with digital reference indicator on PAR 2P
- Electronic shot size and flow rate control on PAR 2E
- Service indicator lamp

Metering Pumps	Single acting rod-displacement
Ratio Range Capability	1:1 to 16:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPa.s (depending upon material thixotropy)
Shot size	Available from approx. 0.04 ml up to 6.79 ml at a ratio of 1:1 by volume
Cycle Rate	up to 15 shots per minute (depending upon viscosity)
Mixing	Disposable Static
Reservoir Capacity	500ml plastic cartridges

Controls

- Integrated PLC control (with colour HMI touchscreen operator interface on PAR 2E)
- PAR 2E incorporates "Recipe" function with up to 50 programmable flow rate and shot sizes
- Main Off/On switch
- Emergency Stop & Reset Buttons
- Anti-gel automatic purge timer
- Shot counter/repeater unit for multiple shot applications
- Either foot pedal or remote start options available
- 230V/50Hz or 110V/60Hz AC electric supply + compressed air @ 80 p.s.i.

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AVAILABLE OPTIONS

- 6 ltr (1.58 gal) capacity reservoir sizes on special support framework
- Pneumatically operated mixer valve for accurate shut-off after dispense
- Digitally controlled heating
- Pressurised cartridge feeds for processing thick (non-pourable) materials
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Bulk transfer pump & accumulator feed facility directly from suppliers containers

TYPICAL APPLICATIONS

- Electronic Potting
- Component Bonding
- Sealing

TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate