



PAR 50

The **PAR 50** combines all technical features of the **PAR 30** with the benefit of an easily portable framework, larger material reservoirs and, if requested, a higher flow rate. One major advantage of the **PAR 50** dispensing equipment is the independent inverter driven motor control for each gear pump, instead of using the more common typical gear and toothed belt assembly. This feature enables the machine with very simple mixing ratio and shot size adjustment together with advanced PLC control during all kinds of applications. The **PAR 50** is mostly used for manual applications, for example in the LED lighting or RIM industries where there is a need for accurate castings, but it can also be interfaced to fully or semi-automatic systems, such as Filament Winding, Pultrusion, Infusion and RTM light industry.

STANDARD FEATURES

- Floor mounted machine on castors for portability
- "Metered" or "Operator Controlled" shot size selection
- Service indicator lamp

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|-------------------------------|---|
| Metering Pumps | Electric inverter driven gear pumps |
| Mixer Valve | Pneumatically operated TSV601 Mixer Valve |
| Ratio Range Capability | 1:1 to 100:1 (depending upon pumps selected) |
| Viscosity acceptance | Up to 500,000 mPa.s (when fitted with transfer pump/accumulator option) |
| Shot size | Typically available from approx. 10 ml upwards |
| Flow Rate | Typically up to approx. 8 ltr/minute (depending upon viscosity) |
| Mixing | Disposable Static |
| Reservoir Capacity | 18 ltr (4.74 gal) stainless steel with silica gel moisture protection |

Controls

- Integrated PLC control with colour HMI touchscreen operator interface
- Flow rate adjustable via rotary potentiometer
- Air supply filter/regulator and gauge with connection check unit.
- Main Off/On switch
- Emergency Stop & Reset Buttons
- Anti-gel automatic purge timer
- Either foot pedal, hand held trigger 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) , 12 ltr (3.16 gal) or 30 ltr (7.9 gal) capacity reservoir sizes
- Digitally controlled heating to reservoirs, pumps and hoses
- Electric agitation to material reservoirs
- Electronic low-level sensing to material reservoirs with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Ultra-high precision gear metering pumps
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump/accumulator facility directly from suppliers containers

TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Filter Manufacturing

TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone