



# PAR 2P PAR 2E

Specifically developed to meet the increasing demand to dispense small discrete shots of homogeneously mixed two-part materials, the PAR 2P & PAR 2E incorporates mechanically linked positive displacement rod-metering pumps to provide precise dispensing of micro shot sizes down to 0.04 ml. The PAR 2P is supplied with a cost-effective, pneumatically operated, drive unit whilst the PAR 2E incorporates the added benefit of electric servo drive speed and shot size control. The PAR 2P & PAR 2E machines provides reliable, proven fixed ratio metering control during dispense, and the lightweight construction allows it to be mounted directly onto an articulated robot or the Meter Mix XYZ System Cartesian robot for accurate point of application dispensing. The PAR 2P & PAR 2E can also be interfaced with automated systems for fully or semi-automatic applications. Incorporating robust and proven metering and mixing principles, the advanced PAR 2P & PAR 2E provides the perfect solution to many small shot applications. These machines are normally supplied with a benchtop framework with foot pedal actuation.

## STANDARD FEATURES

- 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

<b>Metering Pumps</b>	Single acting rod-displacement
<b>Ratio Range Capability</b>	1:1 to 18:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 0.04 ml up to 7.96 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 15 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	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
- 230vAC 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



# PAR 3B

The Meter Mix® PAR 3B is the leading entry level model for dispensing accurate doses of two-component material in small and medium production volumes. The machine combines robust, industry proven operation over many years of service and is the machine of choice for many start-up companies. Specifically developed under economical aspects, the metering system is suitable for a wide range of applications and various materials such as resins and adhesives.

The PAR 3B is a proven and compact solution for potting epoxy resins and provides a clean, cost efficient alternative to hand mixing. The metering system enables the correct processing of low to medium ratio two-component, low to medium viscosity materials. The latest in disposable static mixing technology also eliminates the requirement for solvent cleaning.

## STANDARD FEATURES

- Bench top machine
- Either “Stalled Shot” or “Operator Controlled” shot size selection

<b>Metering Pumps</b>	Single acting positive displacement, side-by-side metering
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 5:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 0.5 ml up to 63 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	2.5 ltr (0.66 gal) Stainless steel with silica gel moisture protection

### Controls

- Air supply filter/regulator and gauge with connection check unit.
- Main Off/On switch
- Emergency Stop Button
- Either foot pedal or hand held trigger start options available
- Compressed air operation only @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 5 ltr (1.32 gal) capacity reservoir sizes
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- “Metered Shot” function

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate



# PAR 3C PAR 3CT

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 3C & PAR 3CT machines provide reliable, advanced flow rate and ratio control characteristics during dispense, not normally associated with pneumatic machines. ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. Incorporating the same robust and proven metering and mixing principles as the original PAR 3, the advanced PAR 3C & PAR 3CT provide the perfect solution to many applications. In addition, the PAR 3C & PAR 3CT can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Bench top machine with adjustable feet (PAR 3C).
- Floor standing machine on castors for portability (PAR 3CT)
- "Metered Shot" and "Operator Controlled" shot size selection
- Shot size adjuster with digital reference indicator
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Ratio Range Capability</b>	1:1 to 14:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 1.2 ml up to 63 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	PAR 3C: 6 ltr (1.58 gal) stainless steel with silica gel moisture protection PAR 3CT: 18 ltr (4.74 gal)

### Controls

- Integrated PLC control with HMI operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 ltr (3.16 gal) capacity reservoir sizes/ 6 ltr (1.58 gal), 12 ltr (3.16 gal) & 30 ltr (7.9 gal) optional on PAR 3CT
- 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate



# PAR 3CE PAR 3CTE

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 3CE & PAR 3CTE machines provide reliable, advanced flow rate and ratio control characteristics during dispense, with the added benefit of electric servo drive speed and shot size control. ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. Incorporating the same robust and proven metering and mixing principles as the original PAR 3, the advanced PAR 3CE & PAR 3CTE provide the perfect solution to many applications. In addition, the PAR 3CE & PAR 3CTE can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Bench top machine with adjustable feet (PAR 3CE).
- Floor standing machine on castors for portability (PAR 3CTE)
- "Metered Shot" and "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement, side-by-side metering
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 14:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 1.2 ml up to 63 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	PAR 3CE: 6 ltr (1.58 gal) Stainless steel with silica gel moisture protection PAR 3CTE: 18 ltr (4.74 gal)

### Controls

- Integrated PLC control with colour HMI touchscreen operator interface
- "Recipe" function with up to 50 programmable flow rate and shot size parameters
- Air supply filter/regulator and gauge with connection check unit.
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 ltr (3.16 gal) capacity reservoir sizes/ 6 ltr (1.58 gal), 12 ltr (3.16 gal) & 30 ltr (7.9 gal) optional on PAR 3CTE
- 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate



# PAR 3CM

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 3CM machine provides reliable, advanced flow rate and ratio control characteristics during dispense, not normally associated with pneumatic machines. The advanced PAR 3CM builds on the standard machine setup with the fitment of a “modular platform”. The PAR 3CM has been specifically designed and manufactured to incorporate a variety of options, which can be quickly and easily fitted, bringing benefits in flexibility and reduced build times. The machine is pre-programmed to accept a number of modularised features, like heating, agitation and level-sensing. This enables the user to add or remove functions by simple “plug-n-play” connections. Another benefit of this “modular” system is that retro-fitting options (maybe through a material change) can be simply added at a later stage. The PAR 3CM also incorporates the additional benefit of automatic shot size control. Whether dispensing 5g or 500g, the PAR 3CM will accurately dispense the required volume without the need for calculation.

## STANDARD FEATURES

- Modular build to enable quick addition, or removal, of optional features
- Bench top machine with adjustable feet
- “Metered Shot” and “Operator Controlled” shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV602 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 14:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 1.2 ml up to 63 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	6 lt stainless steel with silica gel moisture protection

### Controls

- Integrated PLC control with 5” colour HMI touchscreen operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit.
- 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 hand held trigger start options available
- 230VAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 lt 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone



# PAR 4C PAR 4CT

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 4C & PAR 4CT machines provide reliable, advanced flow rate and ratio control characteristics during dispense, not normally associated with pneumatic machines. ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. Incorporating the same robust and proven metering and mixing principles as the original PAR 4, the advanced PAR 4C & PAR 4CT provide the perfect solution to many applications. In addition, the PAR 4C & PAR 4CT can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Bench top machine with adjustable feet (PAR 4C)
- Floor standing machine on castors for portability (PAR 4CT)
- "Metered Shot" and "Operator Controlled" shot size selection
- Shot size adjuster with digital reference indicator
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 24:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 2.5 ml up to 168 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	PAR 4C: 6 ltr (1.58 gal) PAR 4CT: 18 ltr (4.74 gal) Stainless steel with silica gel moisture protection

### Controls

- Integrated PLC control with HMI operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 ltr (3.16 gal) capacity reservoir sizes/ 6 ltr (1.58 gal), 12 ltr (3.16 gal) & 30 ltr (7.9 gal) optional on PAR 4CT
- 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate



# PAR 4CE PAR 4CTE

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 4CE & PAR 4CTE machines provide reliable, advanced flow rate and ratio control characteristics during dispense, with the added benefit of electric servo drive speed and shot size control. ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. Incorporating the same robust and proven metering and mixing principles as the original PAR 4, the advanced PAR 4CE & PAR 4CTE provide the perfect solution to many applications. In addition, the PAR 4CE & PAR 4CTE can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Bench top machine with adjustable feet (PAR 4CE)
- Floor standing machine on castors for portability (PAR 4CTE)
- "Metered Shot" and "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 24:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 2.5 ml up to 168 ml at a ratio of 1:1 by volume
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	PAR 4CE: 6 ltr (1.58 gal) PAR 4CTE: 18 ltr (4.74 gal) Stainless steel with silica gel moisture protection

### Controls

- Integrated PLC control with colour HMI touchscreen operator interface
- "Recipe" function with up to 50 programmable flow rate and shot size parameters
- Air supply filter/regulator and gauge with connection check unit.
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 ltr (3.16 gal) capacity reservoir sizes/ 6 ltr (1.58 gal), 12 ltr (3.16 gal) & 30 ltr (7.9 gal) optional on PAR 4CTE
- 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate



# PAR 5C

Specifically developed to incorporate the latest METER MIX® in-line drive mechanism (ILD), the PAR 5C machine provides reliable, advanced flow rate and ratio control characteristics during dispense, not normally associated with pneumatic machines. ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. Incorporating the same robust and proven metering and mixing principles as the original PAR 5, the advanced PAR 5C provides the perfect solution to many applications. In addition, the PAR 5C can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Floor mounted machine with castors for portability
- "Metered Shot" and "Operator Controlled" shot size selection
- Shot size adjuster with digital reference indicator
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 20:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (depending upon material thixotropy)
<b>Shot size</b>	Available from approx. 25 ml up to 235 ml at volumetric ratios of 1:1 & 3:1 respectively
<b>Cycle Rate</b>	up to 30 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	30 ltr (7.9 gal) Stainless steel with silica gel moisture protection

### Controls

- Integrated PLC control with HMI operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit.
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 6 ltr (1.58 gal), 12 ltr (3.16 gal), and 18 ltr (4.74 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
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Rotary/Static disposable mixing option (electrically driven)
- Bulk feed transfer pump facility directly from suppliers containers

## TYPICAL APPLICATIONS

- Electronic Potting
- Casting
- Moulding
- Component Bonding
- Brush Setting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate





# PAR 20 PAR 20C/20CE

Specifically developed to process a wide range of high-viscosity material systems, the PAR 20 & PAR 20C machines incorporate reliable, proven technology in order to meter precise doses, or accurate beads of mixed product within a wide range of applications. The PAR 20 machine incorporates a follower seal plate for the major component and a gravity feed reservoir for the minor component, enabling the machine to process a mix of high-viscosity and low-viscosity resins, sealants and adhesives. The PAR 20C machine incorporates twin follower seal plates which allows both materials to be dispensed directly from the supplier's containers. The PAR 20 & PAR 20C machines also features the latest METER MIX® in-line drive mechanism (ILD). ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. In addition, these machines can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

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

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 12:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 1,500,000 mPa.s
<b>Shot size</b>	Available from approx. 11 ml up to 108 ml at 10:1 volumetric ratio
<b>Cycle Rate</b>	up to 15 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Major component drum/pail size</b>	typically approx. 20 ltr (5.27 gal) / 25 ltr (6.58 gal) (depending upon drum dimensions)
<b>Minor component reservoir size</b>	PAR 20: 18 ltr (4.74 gal) stainless steel
<b>Minor component drum/pail size</b>	PAR 20C: approx. 20 ltr (5.27 gal)

### Controls

- Integrated PLC control with HMI operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- Shot size adjuster with digital reference indicator
- Digitally controlled heating to follower plate, reservoir, pumps and hoses
- Electronic low-level sensing to both materials with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Swiveling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven)
- Available with dual independent servo drive system for precise flow rate control and variable ratio feature (PAR 20 CE)

## TYPICAL APPLICATIONS

- Component Bonding & Sealing
- Insulated Glazing
- Structural Glazing
- Moulding

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate
- Polysulphide



# PAR 20F PAR 200F

Specifically developed to process a wide range of high-viscosity material systems, the PAR 20F & PAR 200F machines incorporate reliable, proven technology in order to meter precise doses, or accurate beads of 1K materials within a wide range of applications. The PAR 20F & PAR 200F machines incorporate a lift/ram assembly with built-in follower seal plate to enable high-viscosity materials to be processed directly from the suppliers container. In addition, these machines can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Floor mounted machine (PAR 200F) with castors for portability (PAR 20F)
- "Metered" or "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Outlet Valve</b>	Pneumatically operated AST6001 Tipseal Valve
<b>Viscosity acceptance</b>	Up to 1,500,000 mPa.s
<b>Shot size</b>	Available from approx. 5 ml up to 175 ml (depending upon model & pump size selection)
<b>Cycle Rate</b>	up to 15 shots per minute (depending upon viscosity)
<b>Major component drum/pail size</b>	approx. 20 ltr (5.27 gal), depending upon drum dimensions)
<b>Drum/pail size</b>	PAR 20F: approx. 20 ltr (5.27 gal), depending upon drum dimensions PAR 200F: approx 200 ltr (52.63 gal)

### Controls

- Integrated PLC control with HMI operator interface
- Manual shot size adjuster with digital reference indicator
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit
- Main Off/On switch
- Emergency Stop & Reset Buttons
- Shot counter/repeater unit for multiple shot applications
- Either foot pedal or hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- Digitally controlled heating to follower plate, pump and hose
- Electronic low-level sensing with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Swiveling boom assembly to support hand held mixer valve

## TYPICAL APPLICATIONS

- Cartridge/Syringe filling
- Grease Dosing
- Thermal Paste Metering

## TYPICAL MATERIALS

- Silicone
- Polyurethane
- Epoxy
- Grease



# PAR 20G PAR 200G

Specifically developed to process a wide range of high-viscosity material systems, the PAR 20G & PAR 200G machines incorporate reliable, proven technology in order to meter precise doses, or accurate beads of mixed product within a wide range of applications. The PAR 20G & PAR 200G machines incorporate twin follower seal plates which allows both materials to be dispensed directly from the supplier's containers. Both of these machines also feature electric inverter drive motor control in order to provide precise control over flow rate and shot size with the added benefit of continuous flow rate. In addition, the PAR 20G & PAR 200G machines can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Floor mounted machine (PAR 200G) on castors for portability (PAR 20G)
- "Metered" or "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Electric inverter driven gear pumps (mounted to follower plates)
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 100:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 1,000,000 mPa.s
<b>Shot size</b>	Available from approx. 2 ml upwards
<b>Flow Rate</b>	up to approx. 500 ml/minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Drum/pail sizes</b>	PAR 20G: 20lt (5.27 gal)
<b>Drum/pail sizes</b>	PAR 200G: 200/20 ltr (52.63/5.27 gal) PAR 200G-200: 200/200 ltr (52.63/52.63 gal)

### 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
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- Digitally controlled heating to follower plates, pumps and hoses
- Electronic low-level sensing to both materials with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Swiveling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven).

## TYPICAL APPLICATIONS

- Component Bonding & Sealing.

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate
- Polysulphide



# PAR 30 PAR 30T

Specifically developed to process materials and applications requiring variable ratio functionality, the PAR 30 & PAR 30T machines incorporate reliable, proven technology in order to meter precise doses, or accurate beads of mixed product within a wide range of applications. The PAR 30 & PAR 30T machines also feature electric inverter drive motor control in order to provide precise control over material ratio, flow rate and shot size with the added benefit of continuous flow rate. Whether casting small scale intricate moulds using RIM technology or applying uninterrupted beads for LED lighting or gasket forming, these machines offer a reliable solution to many dispensing requirements. In addition, the PAR 30 & PAR 30T can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Bench mounted machine (PAR 30)
- Floor standing machine on castors for portability (PAR 30T)
- "Metered" or "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Electric inverter driven gear pumps
<b>Ratio Range Capability</b>	1:1 to 100:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (when fitted with transfer pump/accumulator option)
<b>Shot size</b>	Available from approx. 1 ml upwards
<b>Flow Rate</b>	up to approx. 2.3 ltr/minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	6 ltr (1.58 gal) or 18 ltr (4.74 gal)

### 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
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- 12 ltr (3.16 gal) capacity reservoir sizes/ 6 ltr (1.58 gal), 12 ltr (3.16 gal) & 30 ltr (7.9 gal) optional on PAR 30T
- 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
- LED Lighting

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone



# PAR 50

Specifically developed to process materials and applications requiring variable ratio functionality, the PAR 50 machine incorporates reliable, proven technology in order to meter precise doses, or accurate beads of mixed product within a wide range of applications. The PAR 50 machine also features electric inverter drive motor control in order to provide precise control over material ratio, flow rate and shot size with the added benefit of continuous flow rate. Whether used for RIM casting of large automotive bumpers or applying uninterrupted beads for filter manufacturing or gasket forming, the PAR 50 offers a reliable solution to many dispensing requirements. In addition, the PAR 50 can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

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

<b>Metering Pumps</b>	Electric inverter driven gear pumps
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 100:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 500,000 mPa.s (when fitted with transfer pump/accumulator option)
<b>Shot size</b>	Typically available from approx. 10 ml upwards
<b>Flow Rate</b>	Typically up to approx. 8 ltr/minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Reservoir Capacity</b>	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
- 230vAC 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



# PAR 200 PAR 200C

Specifically developed to process a wide range of high-viscosity material systems, the PAR 200 & PAR 200C machines provide reliable, proven technology, and will meter precise doses or accurate beads of mixed product within a wide range of applications. The PAR 200 machine incorporates a follower seal plate for the major component and a gravity feed reservoir for the minor component, enabling the machine to process a mix of high-viscosity and low-viscosity resins, sealants and adhesives. The PAR 200C machine incorporates twin follower seal plates which allows both materials to be dispensed directly from the supplier's containers. The PAR 200 & PAR 200C machines also features the latest METER MIX® in-line drive mechanism (ILD). ILD also assists the accurate and consistent processing of materials with high mix ratios or vastly differing viscosities. In addition, these machines can also be interfaced with automated systems for fully or semi-automatic applications.

## STANDARD FEATURES

- Floor mounted machine
- "Operator Controlled" shot size selection
- Service indicator lamp

<b>Metering Pumps</b>	Single acting positive displacement
<b>Mixer Valve</b>	Pneumatically operated TSV601 Mixer Valve
<b>Ratio Range Capability</b>	1:1 to 20:1 (depending upon pumps selected)
<b>Viscosity acceptance</b>	Up to 1,500,000 mPa.s
<b>Shot size</b>	Available from approx. 11 ml up to 194 ml at 10:1 volumetric ratio
<b>Cycle Rate</b>	up to 15 shots per minute (depending upon viscosity)
<b>Mixing</b>	Disposable Static
<b>Major component drum/pail size</b>	approx. 200 ltr (52.63 gal)
<b>Minor component reservoir size</b>	30 ltr (7.9 gal) Stainless steel (PAR 200)
<b>Minor component drum/pail size</b>	PAR 200C: 20 ltr (5.27 gal) PAR 200C-200: 200 ltr (52.63 gal)

### Controls

- Integrated PLC control with HMI operator interface
- Dispense pressure regulator and gauge
- Air supply filter/regulator and gauge with connection check unit.
- 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 hand held trigger start options available
- 230vAC electric supply + compressed air @ 80 p.s.i.

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## AVAILABLE OPTIONS

- Shot size adjuster with digital reference indicator
- Digitally controlled heating to follower plate, reservoir, pumps and hoses
- Electronic low-level sensing to both materials with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Swiveling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven)

## TYPICAL APPLICATIONS

- Component Bonding & Sealing
- Insulated Glazing
- Structural Glazing
- Moulding

## TYPICAL MATERIALS

- Polyurethane
- Epoxy
- Silicone
- Methacrylate
- Polysulphide