



A MEMBER OF THE  
**HILGER&KERN** GROUP

# High performance – easy to handle

Machines for bonding, sealing,  
potting and encapsulation



# Simplify your metering and mixing process

## Reliable processing of two-part epoxies, polyurethanes and silicones

METER MIX® is a global manufacturer and supplier of metering, mixing and dispensing machines for processing single and two-component materials. Our machines successfully process epoxies, polyurethanes, silicones, polysulphides and methacrylate based resins, as well as greases and oils. METER MIX® dispensing equipment offers solid solutions for a wide range of applications such as bonding, sealing, potting, encapsulation or reaction injection moulding.

With our machines, you can process one-part and two-part materials reliably and safely - regardless of whether you are a beginner or an advanced user. You could choose between two technologies:

- Material dispensed by continuous flow
- Material dispensed by shot

## Our product portfolio

	Material dispensed by continuous flow	Material dispensed by shot
Machines for liquid materials	 LiquidFlow	 LiquidShot
Machines for paste materials	 PasteFlow	 PasteShot
	<ul style="list-style-type: none"><li>• Proven gear pump or progressive cavity pump technology</li><li>• Pulsation-free dispensing</li><li>• Variable mixing ratio</li><li>• Accurate flow-rate control</li></ul>	<ul style="list-style-type: none"><li>• Proven piston pump technology</li><li>• Precise metered shot sizes achievable</li><li>• Reliable and robust operation</li></ul>

# Find the right machine for your solution

## LiquidFlow Machines

### LiquidFlow 2

Versatile machine for accurate dispensing of small beads

06



### LiquidFlow 30

Entry-level gear pump technology for low-mid flow applications

08



### LiquidFlow 40

Mid-range gear pump technology for medium flow applications

10



### LiquidFlow 50

High-level machine for larger flow production demands

12



## PasteFlow Machines

### PasteFlow 20

High-level machine for dispensing beads of high-viscosity material directly from 20 lt drums

22



### PasteFlow 200

High-level machine for dispensing beads of high-viscosity material directly from 200 lt drums

24



## LiquidShot Machines

### LiquidShot 2

Machine for dispensing precise volumes typically less than 3 ml per shot

14



### LiquidShot 3

Piston pump technology for small applications typically dispensing between 3 to 60 ml per shot

16



### LiquidShot 4

Piston pump technology for medium applications typically dispensing between 20 to 180 ml per shot

18



### LiquidShot 5

Piston pump technology for large applications typically dispensing between 100 to 250 ml per shot

20



## PasteShot Machines

### PasteShot 20

Machine for dispensing small-medium shot sizes typically between 5 to 120 ml of high-viscosity material directly from 20 lt drums

26



### PasteShot 200

Machine for dispensing medium-large shot sizes typically 30 to 200 ml of high-viscosity material directly from 200 lt drums

28



LiquidFlow 2

Versatile machine for accurate dispensing of small beads



The LiquidFlow 2 is a versatile and efficient metering and mixing system for accurate dispensing of small beads and shots of two-part materials. One of the major benefits with this machine is the DC electric drive unit and progressive cavity pump technology which ensures very precise dispensing with high economic efficiency at the same time. Due to the compact size of

the LiquidFlow 2, it can be easily mounted on a robotic applicator with various material feeding options. It could process the following materials:

- Polyurethane
- Epoxy
- Silicone
- Methacrylate

TECHNICAL DATA

Size	2 x 0.01	2 x 0.05	2 x 0.15	2 x 0.30
Specific volume [ml/rev]	0.026	0.120	0.330	0.600
Shot size min [ml] <sup>1</sup>	0.006	0.030	0.080	0.150
Output rate [ml/min] <sup>2</sup>	0.26...3.90	1.2...18.1	3.3...50.0	6.0...90.0
Metering accuracy [%] <sup>3</sup>	± 1			
Mixing ratio A:B	1:1...10:1			
P work [bar]	6			
P max [bar]	10			
Speed range [rev/min]	10...150			

<sup>1</sup> At mixing ration 1:1  
<sup>2</sup> Depending on mixing ratio, material properties, mixer type, alignment of PCP, etc.  
<sup>3</sup>Absolte accuracy related to one revolution, depending on material properties, mixer type, etc.

TYPICAL APPLICATIONS

- Electronic potting
- Sealing
- Component bonding

YOUR BENEFITS

- Precise small metered dosing or beading
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Bench top or robot mounted machine
- 600 ml cartridge feed
- Metering Pumps: Continuous progressive cavity
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control (with colour HMI touchscreen operator interface)
  - “Recipe” function with up to 50 programmable ratios, flow rates and shot sizes
- Main Off/On switch
- Emergency Stop & Reset Buttons
- Anti-gel automatic purge timer
- Either foot pedal or remote start options available

OPTIONS

- 2.5 lt & 6 lt reservoirs
- Digitally controlled heating circuits for reservoirs (when fitted)
- Bulk feed transfer pump/accumulator facility directly from suppliers containers
- Electric agitation to material reservoirs (when fitted)
- Electronic low-level sensing to material reservoirs (when fitted) with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Upgraded component parts for protection against abrasion
- Nitrogen purge facility to material reservoirs (when fitted)



LiquidFlow 30

Entry-level gear pump technology for low-mid flow applications



The LiquidFlow 30 metering and mixing machine is a flexible system for potting and encapsulation applications with continuous material flow. This entry-level gear pump technology is perfect for low-mid flow applications and customers will benefit from its modular design (30M). The LiquidFlow 30 can be individually adapted to each application ensuring that

it meets customers expectations and requirements. It is a variable ratio gear pump metering and mixing system that can process low to medium viscosity two component materials:

- Polyurethane
- Epoxy
- Silicone

TYPICAL APPLICATIONS

- Electronic potting
- Casting
- Moulding
- Component bonding and sealing
- LED lighting

YOUR BENEFITS

- Can be used for a variety of different applications
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Metering Pumps: Electric inverter driven gear pumps
- "Metered" or "Operator Controlled" shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI touchscreen and variable ratio adjustment
  - Adjustable flow rate
  - Anti-gel automatic purge timer
  - Either foot pedal, hand held trigger or remote start options available
- Recipe Function" to allow up to 50 pre-set shot sizes, flow rates, and ratios on LiquidFlow 30M

OPTIONS

- 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
- Bulk feed transfer pump/accumulator facility directly from suppliers containers
- Air nucleation system for foam applications
- Rotary/Static disposable mixing option (electrically driven)
- Automatic material recirculation system to help p fillers in suspension
- "Recipe Function" to allow up to 50 pre-set shot sizes, flow rates, and ratios on LiquidFlow 30A

TECHNICAL DATA

Ratio range capability	1:1 to 100:1 (Depending upon model and pumps selected)
Viscosity acceptance	Typically up to 15,000 mPas (Or higher when fitted with optional heating system) Up to 500,000 mPas when processed from transfer feed systems (Depending upon material thixotropy)
Shot size	Available from approx. 1 ml upwards
Flow rate	Up to approx. 2.1 lt/min (Depending upon viscosity and size of pumps)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	6 lt (1,58 gal) or 12 lt (3.16 US gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

VERSIONS



Benchtop with smaller tanks  
LiquidFlow 30A



Benchtop with modular options  
LiquidFlow 30M

LiquidFlow 40

Mid-range gear pump technology for medium flow applications



The LiquidFlow 40 metering and mixing machine is a floor mounted system with larger tanks for potting and encapsulation applications with continuous material flow. The mid-range gear pump technology is very suitable for medium flow rate and shot size applications. The machine provides a beneficial “easy to handle” operation, which is in a class of its own in the middle to upper world of metering, mixing and

dispensing systems. Its proven gear pump technology provides precise and consistently reliable dosing. The LiquidFlow 40 can process low to medium viscosity two-component materials:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 100:1 (depending upon model and pumps selected)
Viscosity acceptance	Typically up to 15,000 mPas (Or higher when fitted with optional heating system) Up to 500,000 mPas (Depending upon material thixotropy)
Shot size	Available from approx. 1 ml upwards
Flow rate	Up to approx. 2.1 lt/min (Depending upon viscosity and size of pumps)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	18 lt (4.74 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting
- Casting
- Moulding
- Component bonding and sealing
- LED lighting

YOUR BENEFITS

- Compact and portable floor mounted framework
- Can be used for a variety of different applications
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Metering Pumps: Electric inverter driven gear pumps
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
  - Controls:
    - Integrated PLC control with HMI touchscreen and variable ratio adjustment
    - Adjustable flow rate
    - Anti-gel automatic purge timer
- Either foot pedal, hand held trigger or remote start options available

OPTIONS

- Reservoir sizes up to 30 lt possible
- 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 for low viscosity or small shot applications
- Nitrogen purge facility to material reservoirs
- Vacuum degassing to material reservoirs
- Bulk feed transfer pump/accumulator facility directly from suppliers containers
- Air nucleation system for foam applications
- Rotary/Static disposable mixing option (electrically driven)
- Automatic material recirculation system to help keep fillers in suspension
- "Recipe Function" to allow up to 50 pre-set shot sizes, flow rates, and ratios

LiquidFlow 50

High-level machine for larger flow production demands



The LiquidFlow 50 is a high-level metering and mixing machine for larger flow production demands. The benefit from this machine is the portable framework with the facility to mount larger material reservoirs and, if requested, a higher flow rate is also achievable. One major advantage of the LiquidFlow 50 is the independent inverter driven motor control for each gear pump, instead of using a lower cost but less efficient gear and toothed belt or chain assembly. This

feature allows the operator to easily change the mixing ratio very simply on the built in HMI touchscreen. The machine is mostly used for manual applications, but it can also be interfaced to fully or semi-automatic systems. Typical materials which can be processed are:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 100:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPas (when fitted with transfer pump/accumulator option)
Shot size	Available from approx. 10ml upwards
Flow rate	Typically up to approx. 8 lt/min (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	18 lt (4,74 gal) stainless steel with silica gel moisture protection
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting
- Casting
- Moulding
- Component bonding and sealing
- Filter manufacturing

YOUR BENEFITS

- Larger flow rates are possible
- Can be used for a variety of different applications
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Metering Pumps: Electric inverter driven gear pumps
- Mixer Valve: Pneumatically operated TSV601 “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI touchscreen and variable ratio adjustment
  - Air supply filter/regulator and gauge with connection check unit
  - Anti-gel automatic purge timer
  - Either foot pedal, hand held trigger or remote start options available

OPTIONS

- Reservoir sizes up to 50 lt possible
- 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)
- Dynamic mixing head (electrically driven) for high flow applications
- Bulk feed transfer pump/accumulator facility directly from suppliers containers



Besides rotary or static mixing, the dynamic mixing head can be used optionally for high flow applications

LiquidShot 2

Machine for dispensing precise volumes typically less than 3 ml per shot



The LiquidShot 2 metering and mixing system is especially developed for dispensing precise volumes typically less than 3 ml per shot. This makes it perfect for electronic encapsulation applications which require absolute precision. The LiquidShot 2 provides a secure, proven fixed ratio metering control unit during the dispensing process. Furthermore, the

lightweight construction allows direct installation onto an articulated robot. The machine processes a variety of two-part materials:

- Epoxy
- Polyurethane
- Silicone
- Methacrylate

TECHNICAL DATA

Ratio range capability	1:1 to 12:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPas (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	600 ml plastic cartridges
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting
- Component bonding
- Sealing

YOUR BENEFITS

- Compact size, suitable for mounting on XYZ robot
- Precise, small volume metered shots
- Accurate flow-rate control (LiquidShot 2E)
- Suitable for processing filled materials (when fitted with hardened parts)

STANDARD FEATURES

- Single acting rod-displacement pumps
- Metered Shot mode on LiquidShot 2P
- Metered, incremental or robot shot size selection on LiquidShot 2E
- Shot size adjuster with digital reference indicator on LiquidShot 2P
- Electronic shot size and flow rate control on LiquidShot 2E
- Service indicator LED
- Controls:
  - Integrated PLC control (with colour HMI touchscreen operator interface)
  - Liquid Shot 2E incorporates “Recipe” function with up to 50 programmable flow rate and shot sizes
  - Anti-gel automatic purge timer
  - Either foot pedal or remote start options available

OPTIONS

- 6 lt (1,58 gal) capacity reservoir sizes on special support framework
- Digitally controlled heating
- Low-level sensing
- Electric agitation on reservoirs
- 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

VERSIONS



Pneumatic drive, rod displacement pump  
LiquidShot 2P



Electric drive, rod displacement pump  
LiquidShot 2E



LiquidShot 3

Piston pump technology for small applications typically dispensing between 3 to 60 ml per shot



The LiquidShot 3 is the first choice for all applications focused in electronic potting and encapsulation. Proven piston pump technology allows for consistent, small shot dispensing applications typically dispensing between 3 ml to 60 ml per shot. The metering and mixing system provides a clean and cost-efficient solution and is perfect for small and medium production volumes. The machine can be up and running in a very

short period of time and is easy to handle, whether for beginners or experts. The LiquidShot 3 processes many two component materials with differing mixing ratios or vastly different viscosities:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 14:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPas (depending upon material thixotropy)
Shot size	Available from approx. 1.2 ml up to 63 ml at a ratio of 1:1 by volume
Cycle rate	Up to 30 shots per minute (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	6 lt (1,58 gal) stainless steel with silica gel moisture protection 18 lt (4,74 gal) available, depending on construction
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting and encapsulation
- Casting
- Component bonding
- Brush setting

YOUR BENEFITS

- Cost-effective
- Compact size on LiquidShot 3B, 3C, 3CE and 3CM
- Portable trolley frame on LiquidShot 3CT and 3CTE
- Precise volumetric metered shots
- Accurate flow-rate control on LiquidShot 3CE and 3CTE
- Suitable for processing filled/abrasive materials (when fitted with hardened parts)

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601
- “Metered Shot” and “Operator Controlled” shot size selection
- Shot size adjuster with digital reference indicator on LiquidShot 3C and 3CT
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI operator interface
  - “Recipe” function with up to 50 programmable shot sizes and flow rates on LiquidShot 3CE and 3CTE
- Anti-gel automatic purge timer
- Shot counter/repeater unit for multiple shot applications on LiquidShot 3C and 3CT
- Either foot pedal or hand held trigger start options available

OPTIONS

- 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

VERSIONS



Benchtop entry level pneumatic side-by-side drive piston pump  
LiquidShot 3B



Benchtop pneumatic in-line drive piston pump  
LiquidShot 3C



Benchtop electric in-line drive piston pump  
LiquidShot 3CE



Benchtop pneumatic in-line drive piston pump with modular options  
LiquidShot 3CM



Floor mounted portable pneumatic in-line drive piston pump  
LiquidShot 3CT



Floor mounted portable electric in-line drive piston pump  
LiquidShot 3CTE

LiquidShot 4

Piston pump technology for medium applications typically dispensing between 20 to 180 ml per shot



The LiquidShot 4 is a user-friendly, highly productive metering and mixing system for two-part dispensing applications, especially potting and encapsulation. The machine is a durable and economic solution for many production demands with a high degree of operator functionality. This guarantees robust and proven metering and mixing principles. Trusted piston pump

technology allows for medium dispensing applications typically dispensing between 20 to 180 ml per shot. The machine processes a variety of two-part materials:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 24:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPas (depending upon material thixotropy)
Shot size	Available from approx. 2.5 ml up to 172 ml at a ratio of 1:1 by volume
Cycle rate	Up to 30 shots per minute (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	6 lt (1,58 gal) 18 lt (4,74 gal), depending on construction s tainless steel with silica gel moisture protection
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting and encapsulation
- Casting
- Moulding
- Component bonding
- Brush setting

YOUR BENEFITS

- Cost-effective
- Compact size on LiquidShot 4C and 4CE
- Portable trolley frame on LiquidShot 4CT and 4CTE
- Precise volumetric metered shots
- Accurate flow-rate control on LiquidShot 4CE and 4CTE
- Suitable for processing filled/abrasive materials

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601
- “Metered Shot” and “Operator Controlled” shot size selection
- Shot size adjuster with digital reference indicator on LiquidShot 4C & 4CT
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI operator interface
  - “Recipe” function with up to 50 programmable shot sizes & flow rates on LiquidShot 4CE & 4CTE
  - Anti-gel automatic purge timer
  - Shot counter/repeater unit for multiple shot applications on LiquidShot 4C & 4CT
  - Either foot pedal or hand held trigger start options available

OPTIONS

- 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

VERSIONS



Benchtop pneumatic in-line drive piston pump  
LiquidShot 4C



Benchtop electric in-line drive piston pump  
LiquidShot 4CE



Floor mounted portable pneumatic in-line drive piston pump  
LiquidShot 4CT



Floor mounted portable electric in-line drive piston pump  
LiquidShot 4CTE

LiquidShot 5

Piston pump technology for large applications typically dispensing between 100 to 250 ml per shot



The LiquidShot 5 metering and mixing machine offers a reliable and economic solution for a wide range of resin dispensing applications, especially electronic potting. This machine exhibits a high degree of efficiency, accompanied by a portable floor mounted design. Proven piston pump technology allows for large shot applications typically dispensing between 100 to 250 ml per shot. High mixing ratios or large

differences in viscosities are processed perfectly and efficiently through this machine. The LiquidShot 5 is able to process the following materials:

- Polyurethane
- Epoxy
- Silicone

TECHNICAL DATA

Ratio range capability	1:1 to 20:1 (depending upon pumps selected)
Viscosity acceptance	Up to 500,000 mPas (depending upon material thixotropy)
Shot size	Available from approx. 20 ml up to 235 ml
Cycle rate	Up to 30 shots per minute (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	30 lt (7,9 gal) stainless steel with silica gel moisture protection
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Electronic potting
- Casting
- Moulding
- Component bonding
- Filter encapsulation

YOUR BENEFITS

- Suitable for larger shot sizes
- Portable trolley frame
- Precise volumetric metered shots
- Easily adjustable flow-rate control
- Suitable for processing filled/abrasive materials (when fitted with hardened parts)

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601
- “Metered Shot” and “Operator Controlled” shot size selection
- Shot size adjuster with digital reference indicator
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI operator interface
  - Dispense pressure regulator and gauge
  - Air supply filter/regulator and gauge with connection check unit
  - Anti-gel automatic purge timer
  - Shot counter/repeater unit for multiple shot applications
- Either foot pedal or hand held trigger start options available

OPTIONS

- 6 lt (1,58 gal), 12 lt (3,16 gal), and 18 lt (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

PasteFlow 20

High-level machine for dispensing beads of high-viscosity material directly from 20 lt drums



The PasteFlow 20 is a high-level metering and mixing system for applications with continuous material flow. The machine was specially developed for bonding and sealing components by utilizing high-precision gear pumps. The machine is perfect for dispensing beads of high-viscosity material directly from 20 lt drums via twin follower seal plates, providing a clean, mess-free operation with little exposure to the materials. The system can be manually controlled, or dispensed via a

robotic XYZ applicator. With the PasteFlow 20, precise doses or accurate beads can be metered with excellent repeatability, based on different materials:

- Epoxy
- Polyurethane
- Silicone
- Polysulphide
- Methacrylate

TECHNICAL DATA

Ratio range capability	1:1 to 30:1 (depending upon pumps selected)
Viscosity acceptance	Up to 1,500,000 mPas
Shot size	Typically available from approx. 2 ml upwards
Flow Rate	Up to approx. 500 ml/min (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Drum/Pail sizes	20 lt / 20 lt (5 gal / 5 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Component bonding
- Sealant dispensing

YOUR BENEFITS

- Suitable for processing pasty materials directly from suppliers containers
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- 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
  - Anti-gel automatic purge timer
  - Either foot pedal, hand held trigger or remote start options 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
- Swivelling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven) – depending upon material viscosity
- Remote variable speed flow rate control



PasteFlow 200

High-level machine for dispensing beads of high-viscosity material directly from 200 lt drums



With the PasteFlow 200, we are able to offer a high-level machine for applications with continuous material flow. The metering and mixing system was specially developed for component bonding and sealing applications by utilizing high-precision gear pump technology. The machine is perfect for dispensing beads of high-viscosity material directly from 200 lt drums via twin follower seal plates, providing a clean, mess-free operation with little exposure to the materials. The

system can be manually controlled, or dispensed via a robotic XYZ applicator. Precise doses or accurate beads can be metered with excellent repeatability, based on different materials:

- Epoxy
- Polyurethane
- Silicone
- Polysulphide
- Methacrylate

TECHNICAL DATA

Ratio range capability	1:1 to 30:1 (depending upon pumps selected)
Viscosity acceptance	Up to 1,500,000 mPas
Shot size	Typically available from approx. 5 ml upwards
Flow rate	Up to approx. 500 ml/min (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Drum/Pail sizes	200 lt / 20 lt (55 gal / 5 gal) 200 lt / 200 lt (55 gal /55 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Component bonding
- Sealant dispensing

YOUR BENEFITS

- Suitable for processing pasty materials directly from suppliers containers
- Continuous flow
- Pulsation-free dispensing
- Variable mixing ratio
- Quiet operation
- Accurate flow-rate control

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- 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
  - Anti-gel automatic purge timer
  - Either foot pedal, hand held trigger or remote start options 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
- Swivelling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven) – depending upon material viscosity
- Remote variable speed flow rate control

VERSIONS



Floor mounted 200 lt + 20 lt electric gear pump  
PasteFlow 200G



Floor mounted 200 lt + 20 lt electric gear pump  
PasteFlow 200G20

PasteShot 20

Machine for dispensing small-medium shot sizes typically between 5 to 120 ml of high-viscosity material directly from 20 lt drums



The PasteShot 20 metering and mixing machine was developed primarily for dispensing small to medium shots in bonding, sealing and cartridge filling applications. It is suited for shot sizes typically 5 ml to 135 ml (depending upon ratio) of high-viscosity materials which can be fed directly from 20 lt drums. The machine can be utilized for direct dispensing onto components, or into cartridges for manual

applications. Reliable piston pumps ensure an accurate and consistent processing of materials with high mix ratios or vastly differing viscosities:

- Epoxy
- Polyurethane
- Silicone
- Methacrylate

TECHNICAL DATA

Ratio range capability	1:1 to 12:1 (depending upon pumps selected)
Viscosity acceptance	Up to 1,500,000 mPa.s
Shot size	Available from approx. 11 ml up to 108 ml at 10:1 volumetric ratio
Cycle rate	Up to 15 shots per minute (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Major component drum/pail size	Typically approx. 20 lt (5 gal) (depending upon drum dimensions)
Minor component reservoir size	18 lt (4,74 gal) stainless steel
Minor component drum/pail size	approx. 20 lt (5 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Component bonding and sealing
- Cartridge/Syringe filling

YOUR BENEFITS

- Precise metered shot sizes achievable
- Reliable and robust operation
- Suitable for processing abrasive media (when fitted with hardened parts)

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601 or AST6001 1k Valve
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI operator interface
  - Manual shot size adjuster with digital reference indicator on PasteShot 20F
  - Dispense pressure regulator and gauge
  - Air supply filter/regulator and gauge with connection check unit
  - Anti-gel automatic purge timer
  - Shot counter/repeater unit for multiple shot applications
  - Either foot pedal or hand held trigger start options available

OPTIONS

- Shot size adjuster with digital reference indicator on PasteShot 20A and 20C
- 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
- Swivelling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven) – depending upon material viscosity
- Available with dual independent servo drive system for precise flow rate control and variable ratio feature on PasteShot 20CE

VERSIONS



Floor mounted portable 20 lt + tank  
pneumatic in-line drive piston pump  
PasteShot 20A



Floor mounted portable 20 lt + 20 lt  
pneumatic in-line drive piston pump  
PasteShot 20C



Floor mounted portable 20 lt + 20 lt  
electric drive piston pump  
PasteShot 20CE



Floor mounted portable 20 lt  
pneumatic drive 1k piston pump  
PasteShot 20F

PasteShot 200

Machine for dispensing medium-large shot sizes typically 30 to 200 ml of high-viscosity material directly from 200 lt drums



The PasteShot 200 metering and mixing system is the preferred solution for dispensing medium to large shots for bonding, sealing and cartridge filling applications. It is suited for shot sizes typically 30 to 200 ml of high-viscosity materials which can be fed directly from 200 lt drums. The machine can be utilized for direct dispensing onto components, or into cartridges for manual applications. Proven piston

pump technology ensures accurate and consistent processing of materials with high mix ratios or vastly differing viscosities:

- Epoxy
- Polyurethane
- Silicone
- Methacrylate

TECHNICAL DATA

Ratio range capability	1:1 to 20:1 (depending upon pumps selected)
Viscosity acceptance	Up to 1,500,000 mPas
Shot size	Available from approx. 11 ml up to 194 ml at 10:1 volumetric ratio
Cycle rate	Up to 15 shots per minute (depending upon viscosity)
Mixing	Disposable Static or Rotary/Static
Major component drum/pail size	Approx. 200 lt (55 gal)
Minor component reservoir size	30 lt (7,9 gal) stainless steel
Minor component drum/pail size	20 lt (5 gal) 200 lt (55 gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.

TYPICAL APPLICATIONS

- Component bonding and sealing
- Cartridge/Syringe filling

YOUR BENEFITS

- Precise metered shot sizes achievable
- Reliable and robust operation
- Suitable for processing abrasive media (when fitted with hardened parts)

STANDARD FEATURES

- Mixer Valve: Pneumatically operated TSV601 or AST6001 1k Valve
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI operator interface
  - Manual shot size adjuster with digital reference indicator on PasteShot 200F
  - Dispense pressure regulator and gauge
  - Air supply filter/regulator and gauge with connection check unit
  - Anti-gel automatic purge timer
  - Shot counter/repeater unit for multiple shot applications
  - Either foot pedal or hand held trigger start options available

OPTIONS

- Shot size adjuster with digital reference indicator on PasteShot 200A, 200C and 200C20
- 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
- Swivelling boom assembly to support hand held mixer valve
- Rotary/Static disposable mixing option (electrically driven) – depending upon material viscosity
- Available with dual independent servo drive system for precise flow rate control and variable ratio feature on PasteShot 200CE or 200CE20

VERSIONS



Floor mounted 200 lt + 200 lt pneumatic in-line drive piston pump  
PasteShot 200C



Floor mounted 200 lt + tank pneumatic in-line drive piston pump  
PasteShot 200A



Floor mounted 200 lt + 20 lt pneumatic in-line drive piston pump  
PasteShot 200C20



Floor mounted 200 lt + 200 lt electric drive piston pump  
PasteShot 200CE



Floor mounted 200 lt + 20 lt electric drive piston pump  
PasteShot 200CE20



Floor mounted 200 lt pneumatic drive 1k piston pump  
PasteShot 200F

## Notes

[illegible]This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





A MEMBER OF THE  
**HILGER&KERN**GROUP

## GLOBAL SALES AND SERVICE

Find us near you:

[www.meter-mix.com/contacts](http://www.meter-mix.com/contacts)

