



# PRECISION SHOT METER (PSM) AND DISPENSE SYSTEMS

For One Component Sealants and Adhesives



PROVEN QUALITY. LEADING TECHNOLOGY.

# Precision Shot Meter (PSM)

## For highly accurate automated metering and dispense of one component material

An innovative fluid path and robust construction make this precision shot meter (PSM) ideal for automatically applying one component epoxies, silicones, acrylics, urethanes, polysulfides and thermal interface materials (TIMs).

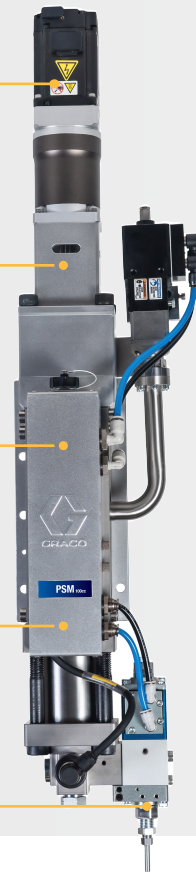
**High accuracy:** Servo motor control and high precision meter ensure +/- 1 percent shot repeatability.

**Compact structure and lightweight design:** Modular system fits into almost any automated assembly line and does not overload robot arms.

**Wide shot size range:** Configurations with maximum shot sizes of 25 ccs, 50 ccs or 100 ccs fit multiple applications.

**Low maintenance:** Patented first-in-first-out (FIFO) fluid path keeps materials from blocking and curing inside the supply pump.

**Dependable outlet valve:** Available in tip seal, snuff back, or ball seat models, the Graco iQ Dispense Valve delivers long-lasting performance.



PSM-25



PSM-50



PSM-100

## Wear Resistant and Warm Melt Options

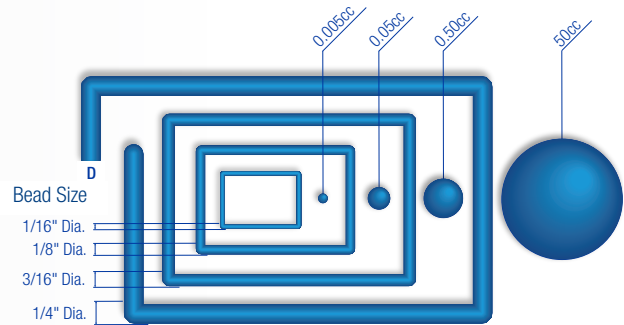
If your manufacturing requirements involve abrasive or warm melt material, consider these PSM options:

- Ultra wear resistant ceramic coating withstands abrasive and viscous material, reducing maintenance.
- Heating function brings material temperature up to 70°C (158°F).

# INCREASE PRODUCTIVITY WITH HIGH ACCURACY AND EFFICIENCY

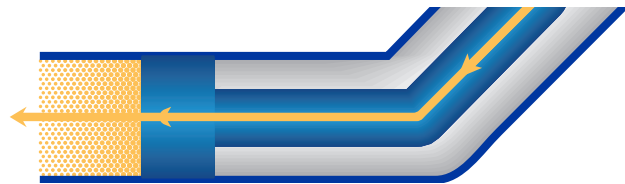
## High Repeatability of Each Bead, Dot and Pattern

- Servo drive design allows for accurate and highly repeatable dispense.
- On-demand flow control synchronizes dispense rates with automation speeds



## Engineered for Low Maintenance and High Efficiency

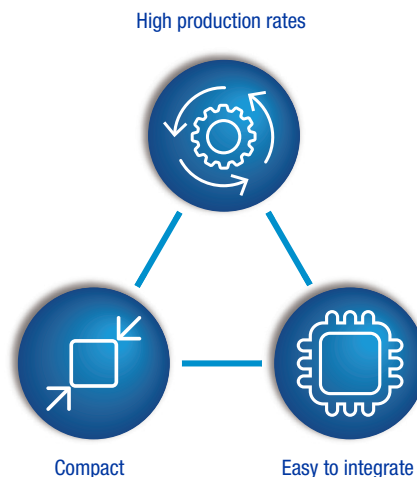
- Patented first-in-first-out (FIFO) fluid path keeps material from settling or curing inside the metering tube. This prevents clogging
- Durable construction and fluid path geometry resist wear from abrasive materials and extend service life.



First-in-first-out (FIFO) fluid path

## Compact Design and Easy Integration Lead to High Production Rates

- Small size and low mass mean installation flexibility for stand-alone benchtop and automated applications.
- Simple communication protocols provide seamless integration with robots, automated work cells, and data tracking systems.
- Multiple system configurations level up production by improving material transfer and dispense

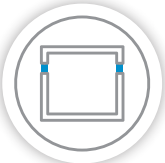


# Applications, Industries and Materials

## Applications:



Bonding



Sealing



Vibration Damping



Hemming



Potting



Gasketing



Thermal Management

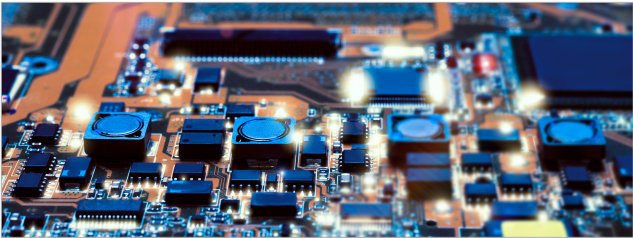
## Industries:



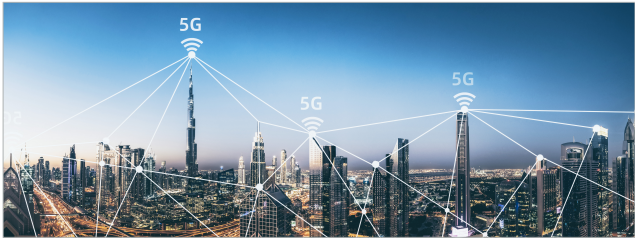
Automotive Manufacturing



Automotive Electronics



Electronics



Telecommunications

## Materials:

- Epoxies
- Polysulfides
- Silicones
- Thermal Interface Materials
- Acrylics
- Polyurethanes



## Easy Integration for Automation

Printed circuit board (PCB) controller fits efficiently into automated assembly lines.

- Large screen for easy operation
- Wall mount for small spaces
- Various dispensing modes for changing needs

Communication protocols integrate with robots, automated work cells, and data tracking systems.

- All PSM systems come equipped with I/O (input/output) communication.
- For PROFINET and EtherNet/IP integration, use These communication gateway module (CGM) kits allow further integration:
  - PROFINET CGM, 2000361
  - EtherNet/IP CGM, 2000362



# Technical Specifications



Model	PSM-25	PSM-50	PSM-100
Travel	38 mm	38 mm	60 mm
Shot Size Range	0.01 - 25 cc	0.2 - 50 cc	0.5 - 100 cc
Maximum Flow Rate	10 cc/s	18 cc/s	20 cc/s
Dimensions (L x W x H) (without mixing nozzle)	590x156x142 mm	647x162x155 mm	737x162x155 mm
Weight	11 Kg / 24 lbs	13 Kg / 29 lbs	16 Kg / 35 lbs
Maximum Operating Temperature	70°C (158 °F)		
Maximum Air Humidity	20 - 80%		
Maximum Working Fluid Pressure	1200 psi, 8.3 Mpa, 82.7 bar	3000 psi, 20.7 Mpa, 206.8 bar	
Maximum Air Pressure	100 psi, 0.7 Mpa, 7 bar		
Power Supply	200-240 Vac, 50 Hz / 60 Hz, 10 A		
Air inlet size	1/4 in. or 6 mm		
Fluid Inlet	1/4 npt(f)		
Fluid Outlet	1/4 npt (f) and 3/4–16 unf (m)		
Fluid Viscosity Range	20-1,000,000 cps		

# Ordering Information

## Precision Shot Meter Systems

Part No.	Description	Part No.	Description
25S141	PSM System, Supply Pump, Feed, Direct, SST, 25 cc, I/O, Snuff Back	2000831	PSM System, Supply Pump Feed, Direct, CER, 50cc , I/O, Tip Seal
25S148	PSM System, Supply Pump Feed, Direct, CER, 25 cc, I/O, Snuff Back	2000832	PSM System, Supply Pump Feed, Direct, SST, 100cc , I/O, Tip Seal
25S142	PSM System, Supply Pump Feed, Direct, SST, 50 cc, I/O, Snuff Back	2000833	PSM System, Supply Pump Feed, Direct, CER, 100cc , I/O, Tip Seal
25S167	PSM System, Supply Pump Feed, Direct, CER, 50 cc, I/O, Snuff Back	2001633	PSM System, Supply Pump Feed, Direct, SST, 25cc , I/O, Ball Seat
25S143	PSM System, Supply Pump Feed, Direct, SST, 100 cc, I/O, Snuff Back	2001634	PSM System, Supply Pump Feed, Direct, CER, 25cc , I/O, Ball Seat
25S170	PSM System, Supply Pump Feed, Direct, CER, 100 cc, I/O, Snuff Back	2001635	PSM System, Supply Pump Feed, Direct, SST, 50cc , I/O, Ball Seat
2000828	PSM System, Supply Pump Feed, Direct, SST, 25cc , I/O, Tip Seal	2001636	PSM System, Supply Pump Feed, Direct, CER, 50cc , I/O, Ball Seat
2000829	PSM System, Supply Pump Feed, Direct, CER, 25cc , I/O, Tip Seal	2001637	PSM System, Supply Pump Feed, Direct, SST, 100cc , I/O, Ball Seat
2000830	PSM System, Supply Pump Feed, Direct, SST, 50cc , I/O, Tip Seal	2001638	PSM System, Supply Pump Feed, Direct, CER, 100cc , I/O, Ball Seat

## Remote Hose Kits

Part No.	Description	Part No.	Description
2000842	HOSE, PSM, JIC fitting, 3/32X60	2000852	HOSE, PSM, JIC fitting, 3/8X36
2000843	HOSE, PSM, JIC fitting, 1/8X60	2000853	HOSE, PSM, JIC fitting, ,3/8X48
2000844	HOSE, PSM, JIC fitting, 3/16X36	2000854	HOSE, PSM, JIC fitting, 3/8X60
2000845	HOSE, PSM, JIC fitting, 3/16X48	2000855	HOSE, PSM, JIC fitting, 3/8X72
2000847	HOSE, PSM, JIC fitting, 3/16X72	2000856	HOSE, PSM, JIC fitting, 1/2X36
2000848	HOSE, PSM, JIC fitting, 1/4X36	2000857	HOSE, PSM, JIC fitting, 1/2X48
2000849	HOSE, PSM, JIC fitting, 1/4X48	2000858	HOSE, PSM, JIC fitting, 1/2X60
2000850	HOSE, PSM, JIC fitting, 1/4X60	2000859	HOSE, PSM, JIC fitting, 1/2X72
2000851	HOSE, PSM, JIC fitting, 1/4X72	2000712	HOSE, PSM, ORFS fitting, 3/8X72



## About Graco

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions, namely spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

## Contact Graco

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## Sales/ Distribution/ Service

To learn more about our products or request a demonstration, please call

**800-746-1334** or visit [www.graco.com/PSM](http://www.graco.com/PSM).

Graco inc. is registered to I.S.EN ISO 9001