

Servo Driven Shot (SDS) Meter

Dispensing system accommodates varying viscosities to deliver fast, repeatable volume of adhesives and sealants in automotive applications.

Features and Benefits

- **Electric servo/ball screw design** – Fast reacting to robot speed changes. Clean, efficient power provides accuracy and repeatability.
- **End-of-arm robot mounting** – reduces dispenser lag between signal and reaction to speed response time for consistent operation.
- **Quick-change packing cartridges** – facilitate easy access for on-line routine servicing and reduced maintenance costs.
- **Heavy-duty drive train** – requires minimal maintenance for maximum uptime and long service life.
- **Auto-Flo™ Valve technology** – inlet/outlet valves provide accurate deposition and control with sharp material cut off for maximum performance and cartridge-style maintenance.
- **Optional integrated temperature conditioning** – provides internal control of material temperature to the point of dispense.

The Nordson SDS Meter is designed for robotic application of automotive adhesives and sealant materials. When “bead on the part” appearance and consistent command of bead profiles are crucial to product quality and function, the SDS is the solution.

■ **Volume and flow rate control at the point of dispense**

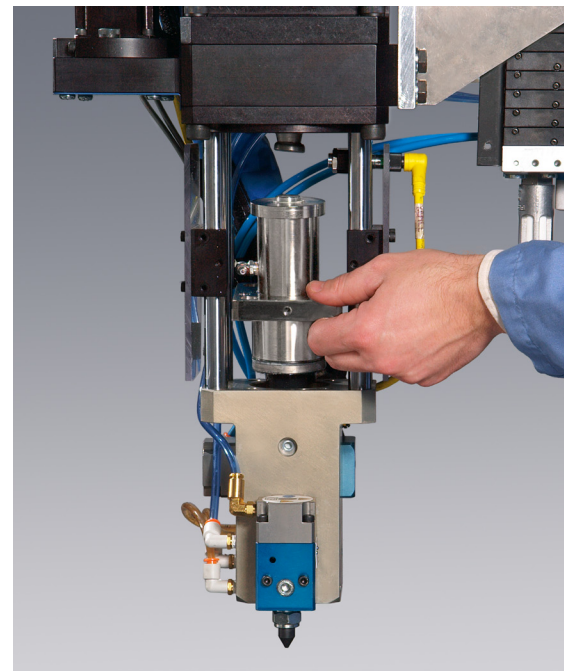
The SDS easily compensates for changes in material flow requirements, regardless of changing material characteristics or robot speed, providing precise, uniform material deposition.

■ **40cc and 90cc versions mount to the same drive train**

Maintains component commonality across varying applications within a plant. The two sizes are interchangeable by removing and reinstalling four bolts.

■ **Flow-through material porting design**

Reduces “packing out” of filled materials within cylinder, helping to reduce nozzle plugging.



Servo Driven Shot (SDS) Meter, 40cc Version

■ **Electric servomotor provides accurate, repeatable motion**

This fast-acting, efficient design provides power cleanly and effectively. The motor's ability to control both material cylinder sizes provides additional flexibility.

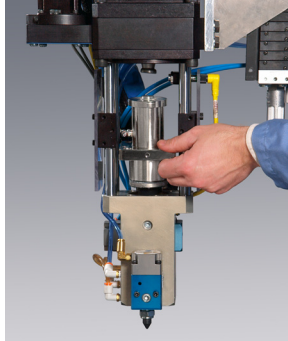
■ **Flexible mounting configuration with 90° incremental rotation of the material cylinder**

Accommodates varying system layout requirements due to new parts or part styles, and easily mounts on a robot or pedestal for maximum operating flexibility.

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Meter Operation

The Nordson SDS Meter combines shot meter technology with proportional control to provide precise, repeatable deposition and efficient material usage. A uniform amount of material is applied as the robot accelerates and decelerates along its programmed



Quick-connect cables and modular design with quick-change packing cartridges provide easy access for on-line routine servicing and reduced maintenance costs.

path via an analog input signal. This precise flow control provides better adhesive bead profiles and faster cycle times.

The material cylinder of the SDS system is filled by positive pressure from a Nordson Rhino® bulk unloader to ensure positive material refill and eliminate 'empty dispenses'. In turn, the on/off gun dispenses the material with consistent bead profiles regardless of changing robot speeds for excellent product quality.

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Ease of Maintenance

The SDS metering system is designed for fast, easy maintenance and features a high-performance shaft coating to help withstand the abrasive materials present



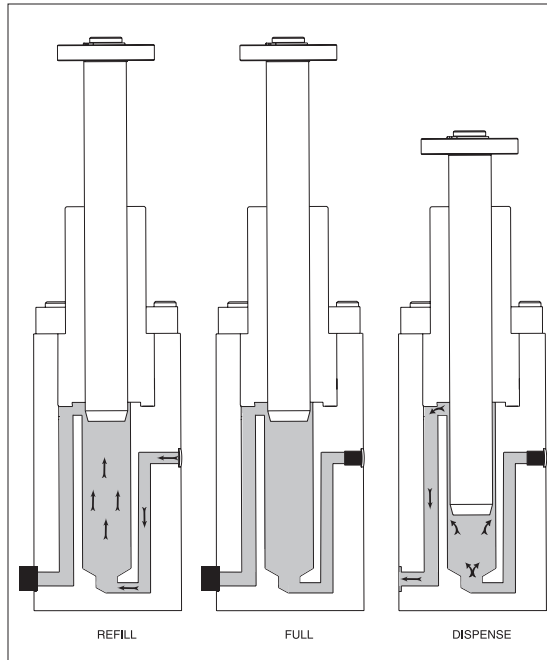
The Servo Driven Shot Meter can be sized to meet specific application needs.

in today's demanding automotive production environments.

- Modular design
- Quick-connect cables
- Quick-change packing cartridges
- On-line routine servicing without removal from the production cell
- Reduced maintenance costs

System Controller

The SDS metering system can be operated from a Nordson PCI Controller or PLC controller. Either controller can provide extensive diagnostics for system set-up and adjustments, system status, easy robot programming and help screens with diagnostic information to assist in system operation. The controller monitors the metering system to assure the material cylinder has refilled, the correct amount of material has been dispensed, and all pressures are within preset high and low limits.



Specifications

Dimensions:	Length	10.25 in.
	Height	6.00 in.
	Width	24.75 in.
	Weight	55 lbs.

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