

High performance screw dispenser

SCREV/VASTER Compatible with Standard / Large flow rate / PUR hot melt Series

High-speed and Stable dispensing of high viscosity particle-filled paste without clogging nozzle.

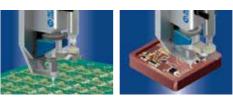


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High performance screw dispenser

High performance screw dispenser that supports solder paste, thermal grease, epoxy resin, PUR, etc, that require high-speed and precision dispensing. The unique screw mechanism eliminates volume inconsistency and fluid lumps, to enable steady and accurate micro dotting and drawing.

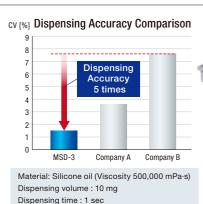




SCREWMASTER 3 Standard type

Minimum dot size φ 0.15 mm (Solder paste) Achieves overwhelming high-precision dispensing.

- The unique screw mechanism eliminates volume inconsistency and fluid pools.
- Achieves micro dotting and superfine drawing of solder paste or fluid with filler.
- The optimum screw rod can be selected according to the fluids and application.
- Syringe and wetted parts can be easily replaced, greatly reducing downtime.









Fine line and high-speed PUR hot melt dispensing!

Line width 0.1 mm ~

Achieves 100 mm/s or faster dispensing speed

High maintainability.

Set temperature up to 160°C



Cartridge type 300 mL

SCREW MASTER series





			SCREW MASTER 3-HF		SCREW MASTER 3		HOT MELT SCREW MASTER
Flow rate			High flow		Standard		Standard
Rod type		Standard	High durability	Standard	High durability	Standard	
Corresponding fluid	Radiation	Thermal grease		0		0	
	Fixation	RTV	0		0		
		Hot melt					0
	Sealing	CIPG / FIPG	0		0		
		PUR					Ø
	Conduction	Solder paste	0		Ø		

Common controller

Head

Common controller that can drive each head of **SCREW MASTER** series

Equipped with various functions for various application scenes.

Drip during standby time is resolved by the dedicated sack-back program. (Please contact our sales.)

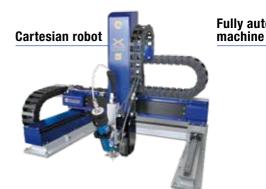
Recommended convenient functions

- "Suckback function" to prevent liquid dripping
- "Auto increment function" that automatically switches the registered dispensing parameters
- "Synchro Speed function" that automatically adjusts the drawing line width in cooperation with our robots

System lineup



SHOT MINI/SHOTMASTER × SCREWMASTER series



X CROSS MASTER X SCREW MASTER series



DISPENSMASTER FALD × SCREW MASTER series



Specifications <Dispense head>

Product name	High performance screw dispenser SCREW MASTER3							
Model	MSD-3-2SE-HF [For Cartridge]		MSD-3-2SE-SET1 [For Syringe]	MSD-3-2SE-SET2 [For Syringe with temp control]	MSD-3-2SE-SET3 [For Cartridge]			
Dispensing method	Screw type							
Main functions	High-speed dispensing of high viscosity pastes, particle-filled pastes, and so on.							
Allowable fluid feed pressure	Max. 0.500 MPa							
External dimensions (excluding protrusion)	W37×D79× H233.5 mm		W37×D85× H230.5 mm	W37×D100×H230.5		mm		
Weight	1.3 kg		1.1 kg					
weight	Excluding screw rods, liquid materials, and liquid material containers.							
Applicable liquid materials	Thermal Grease	Solder paste, epoxy resin, grease etc.			Thermal Grease			
Applicable material viscosity	50,000 to 500,000 mPa+s (reference)							
Applicable nozzles	Slit nozzle *1		Standard nozzle	(nozzle nut type)		Slit nozzle *1		
Liquid feeding method Syringe, barrel cartridge, sealant cartridge, tube cartridge		Syringe, Tank *2	Syringe	seala	Barrel cartridge, sealant cartridge, tube cartridge			
Compliance standards	EU RoHS2							

*1 Slit nozzle ≦0.5 kg

*2 Connection is required via valves, etc. Please contact our sales.

<Dispense controller>

-					
Model	MSD-3-2SE-CTR				
Control system	Microcomputer digital control system				
Display	20 character x 4 line LCD				
Fluid feed pressure setting range	0.010 to 0.700 MPa (Set according to the allowable pressure of the device to be connected or the material container)				
Fluid feed pressure display	4-digit LED digital display				
Source pressure	Max. 0.800 MPa (Recommended supply pressure: Liquid supply pressure +0.100 MPa or higher)				
Dispensing mode	Timed / Manual				
Dispensing time setting range	0.01 to 999.999 s				
Screw rotation speed setting range	1 to 1,500 rpm				
Channel number	400 CH				
External input signal	Dispensing input, Setup input, Vacuum input, Dispensing mode switching input, Error reset input, Channel switching input, ENABLE signal (D-sub25 pin: Photocoupler input DC24V 5 mA)				
External output signal *1	Busy output, Dispensing output, Dispensing completion output, Setup output, Vacuur operation output, Auto-increment completion output, Error output, Power-on output (D-sub25 pin: Photocoupler open collector output DC24V 10 mA or less)				
Other functions	Suck back, Vacuum, Multi-preset, Auto-increment, Synchro speed, RS-232C communication, J/E display switch, Address in function, I/O variable function				
Usage environment (for indoor use only)	Temperature range: 15 to 35°C,Humidity range: 25 to 27°C(No condensation), Altitude: 2,000 m or less				
Storage environment	Temperature range: 1 to 60°C,Humidity range: 25 to 85% (No condensation)				
Applicable fuse	250V T2.0A (Time-lag fuse type φ5)				
Rated power supply and frequency	100 to 240 VAC (50/60 Hz)				
Rated voltage allowable fluctuation range	Within ±10% of the rated voltage				
Power consumption	55 W				
Overvoltage category	Category II				
External dimensions (excluding protrusion)	W300×D250×H100mm				
Weight	5.2 kg				
Compatible standards	CE-marking (LVD, EMC), EU RoHS2				

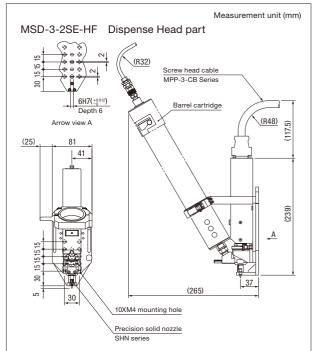
*1 The dispensing output switches with the dispensing completion output.



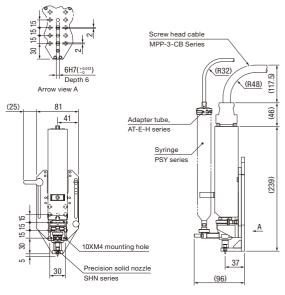
Safety precautions

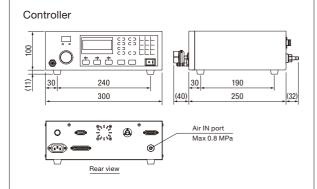
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World Leading Dispenser **MUSASHI ENGINEERING, INC.** External dimensions



MSD-3-2SE-SET1 Dispense Head part





MUSASHI ENGINEERING, INC. (headquarters) is certified and registered according to the ISO 9001 Quality Management System and the ISO 14001 Environmental Management System.





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