

Distributor



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**A Fusion of "Core" Dispensing Technologies
MUSASHI's motion units**

- SHOTMASTER™ 500SX-SS
- SHOTMASTER™ 400SX-SS
- SHOTMASTER™ 300SX-SS
- SHOT mini™ 200SX-SS
- SHOT mini™ 100SX-SS

«Ultimate cost-effective performance»

Newly
Developed



CE
RoHS



- ◆ 800 mm/s, highest level of operation speed in this class.
- ◆ ±0.01 mm repetitive positioning accuracy.
- ◆ **Newly developed** Synchro Speed™ function. PAT.P
The line width can be maintained at constant even when moving through a corner.
Maximum reduction in cycle time for the highest production efficiency.

Fully enhanced operability

New type teaching pendant

- Equipped with **interactive user-friendly interface**
- **Stopwatch function**
- **Dispensing condition switching function**
- **Data transfer function between robots**
- Available in **Japanese, English, and Chinese**



Multifunctional machine

Substantial hardware configuration

- **External input/output:26/26**
- **USB port**
High-speed communication
- **"START" button, "STOP" button, "RETURN TO ORIGIN" button, "DISPENSE" button** equipped as standard
- **Z-axis brake function**

Optional

Nozzle adjuster

Automated nozzle position offset adjustment after syringe replacement.



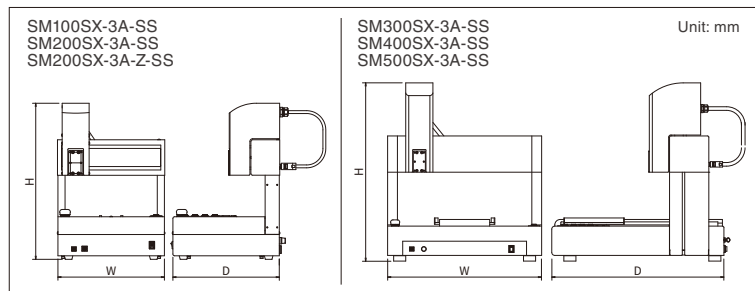
Specifications

Item name	SHOTmini100Sx		SHOTmini 200Sx			SHOTMASTER 300Sx		SHOTMASTER 400Sx		SHOTMASTER 500Sx		
Model	SM100SX-3A-SS		SM200SX-3A-SS	SM200SX-3A-Z-SS	SM200SX-4A-SS	SM300SX-3A-SS	SM300SX-4A-SS	SM400SX-3A-SS	SM400SX-4A-SS	SM500SX-3A-SS	SM500SX-4A-SS	
Number of axes controlled	3-axis		4-axis			3-axis	4-axis	3-axis	4-axis	3-axis	4-axis	
Travel ranges	X, Y axes	100mm	200mm			300mm		400mm		500mm		
	Z-axis	50mm					80mm					
	W-axis	-	-	-	±360°	-	±360°	-	±360°	-	±360°	
Setting range of PTP operation speed (*2)	X, Y axes	1 to 800mm/s										
	Z-axis	1 to 350mm/s			1 to 250mm/s			1 to 400mm/s				
	W-axis	-	-	-	1 to 900°/s	-	1 to 900°/s	-	1 to 900°/s	-	1 to 900°/s	
Setting range of interpolation operation speed (*2)	X, Y axes	0.1 to 800mm/s										
	Z-axis	0.1 to 350mm/s			0.1 to 250mm/s			0.1 to 400mm/s				
	W-axis	-	-	-	0.1 to 900°/s	-	0.1 to 900°/s	-	0.1 to 900°/s	-	0.1 to 900°/s	
Repetitive positioning accuracy (*3)	X, Y axes	±0.01mm										
	Z-axis	±0.01mm										
	W-axis	-	-	-	±0.01°	-	±0.01°	-	±0.01°	-	±0.01°	
Transportable weight (*4)	Y-axis	8kg					15kg					
	Z-axis	2kg		3.5kg	2.5kg	7kg	6kg	7kg	6kg	7kg	6kg	
Rated power supply and frequency	AC100-240V 50/60Hz											
Power consumption	100W		120W			200W	220W	200W	220W	200W	220W	
External dimensions (*6) (excluding protrusions)	W	202mm		300mm			510mm		610mm		710mm	
	D	290mm		300mm			570mm		670mm		770mm	
	H	440mm		455mm	555mm	590mm	690mm	590mm	690mm	590mm	690mm	
Weight	11kg	13.3kg	14.5kg	15.5kg	37kg	40kg	55kg	58kg	66kg	69kg		

Common specifications

Control method (*1)	PTP control and interpolation control	
Interpolation	3-D line, 3-D circular arc/circle, 3-D elliptic arc/circle, spline	
Number of input/output signal points	General-purpose input	26 points
	General-purpose output	26 points
Program entry method	Teaching pendant, PC	
Language	Japanese, English, Chinese	
Program capacity (*5)	40000 steps (999 channels)	
Program storage system	Internal	Internal memory
	External	Backup on PC with dispensing pattern editing software
Program editing software	MuCADV (optional)	

External dimensions



- *1 PTP control: This is control for each specified axis to move to the end coordinates at each speed.
 Interpolation control: This is control for each specified axis to move to the end coordinates at the total interpolated speed.
 *2 These values vary depending on the operations, the weight and gravity center of the loaded object, or other factors.
 *3 This valve is measured by the method prescribed by Musashi (measuring method in conformity with JIS).
 *4 When options are not mounted. The value varies with setting speed, setting acceleration/deceleration time, and operations.
 *5 Main routine: 1 to 99 CH, Sub routine: 100 to 999 CH.
 *6 W and D are the dimensions of the lower section of the case.



- Raised specifications are also available as standard lineup.

4-axis specification robot

- Compatible with SHOTmini 200Sx and SHOTMASTER 300/400/500Sx.



Dispense head
Rotation specifications



Work rotation
specifications(custom)



Dispensing pattern editing software MuCADV™

No.1 dispensing know-how included!

- Intuitive drawing program
- Easy editing for beginners
- Supports program transfer from standard type (such as Ω/DS series)

