

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

SHOTMASTER 500SX-SS  
 SHOTMASTER 400SX-SS  
 SHOTMASTER 300SX-SS  
 SHOTmini 200SX-SS  
 SHOTmini 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.**



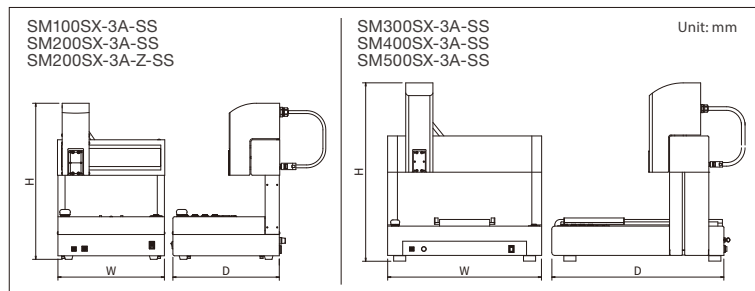
# Specifications

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				
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				
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)

