

SHOT mini® 200SX
 SHOTMASTER® 300SX
 SHOTMASTER® 400SX
 SHOTMASTER® 500SX

Concentration of dispensing "Core" technologies MUSASHI's desktop robot

«Ultimate high cost performance»

Newly
 Developed



- ◆ 800mm/sec. top level operation speed in desktop class.
- ◆ Repetitive positioning accuracy $\pm 0.01\text{mm}$
- ◆ **Newly developed** synchronized speed function equipped PAT.P
 Stable line width, no line thickness on the corners.
 Available minimized tact time, and achieve the ultimate production efficiency.

For higher dispensing quality Secure and useful functions

• **Dispensing condition switching function** **NEW**

Changeable dispensing pressure, dispensing time etc. (at ML-808GX used)

• **Test shot function** **NEW**

Dispensing stability improved

• **Brake function**

Prevention of head drop at emergency stop

• **Nozzle adjuster** (option) **NEW**

The nozzle position adjustment after syringe replacement is automated.

Enhanced operability Evolved teaching pendant

• **Interactive navigation function** equipped **NEW**

• **Highly visible large screen with backlight**



Easy status checking & fixing at program editing with dual screen.

• **Stopwatch function** **NEW**

Enable to measure operation time

• **Data Copy Function to/from other robots** **NEW**

• Available in **Japanese, English, and Chinese** **NEW**

Multifunctional machine Substantial hardware configuration

• **External input/output: 26/26** **NEW**

• **USB port** **NEW**

High-speed communication achieved

• **"START"** button

"STOP" button

"RETURN TO ORIGIN" button

"DISPENSE" button

equipped as standard

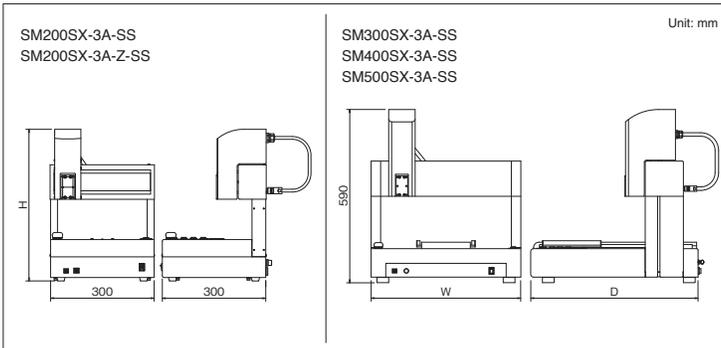
Specifications

Item name	Desktop robot SHOTmini 200Sx		Desktop robot SHOTMASTER 300Sx	Desktop robot SHOTMASTER 400Sx	Desktop robot SHOTMASTER 500Sx
Model	SM200SX-3A-SS	SM200SX-3A-Z-SS	SM300SX-3A-SS	SM400SX-3A-SS	SM500SX-3A-SS
Number of axes controlled	3-axis				
Control method (*1)	PTP / CP control				
Travel ranges	X-axis, Y-axis	200mm	300mm	400mm	500mm
	Z-axis	50mm	80mm		
Setting range of PTP operation speed (*2)	X-axis, Y-axis	1 to 800mm/sec.			
	Z-axis	1 to 350mm/sec.	1 to 250mm/sec.	1 to 400mm/sec.	
Setting range of CP operation speed (*2)	X-axis, Y-axis	0.1 to 800mm/sec.			
	Z-axis	0.1 to 350mm/sec.	0.1 to 250mm/sec.	0.1 to 400mm/sec.	
Interpolation	3-D line, 3-D circular arc/circle, 3-D elliptic arc/ellipse, spline				
Repetitive positioning accuracy (*3)	X-axis, Y-axis	±0.01mm			
	Z-axis	±0.01mm			
Transportable weight (*4)	Y-axis	8kg	15kg		
	Z-axis	2kg	3.5kg	7kg	
Number of input/output signal points	General-purpose input	26 points			
	General-purpose output	26 points			
Program entry method	Teaching pendant and 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	MuCAD V (option)				
Rated power supply and frequency	100 to 240VAC 50/60Hz				
Power consumption	100W		200W		
Adaptive fuse	250VT 4.0A (di. 5×20mm), time-lag fuse		250VT 6.3A (di. 5×20mm), time-lag fuse		
External dimensions (*6)	W300×D300×H440mm	W300×D300×H455mm	W510×D570×H590mm	W610×D670×H590mm	W710×D770×H590mm
Weight	13.3kg	14.5kg	37kg	55kg	66kg
Other functions	Synchronized speed function				
Other options	Leakage protection box, teaching pendant set, external operation box (horizontal/vertical), work bases, suction box for work bases, holder units, nozzle adjuster, nozzle cleaner, protection cover (door type, optical axis type)				
Compatible standards	CE-marking, EU RoHS		CE-marking (soon-to-be-released), EU RoHS		

- *1 PTP control: This is control for each specified axis to move to the end coordinates at each speed.
 CP control: This is control for each specified axis to move to the end coordinates at each speed that is synthesized by interpolation.
- *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.



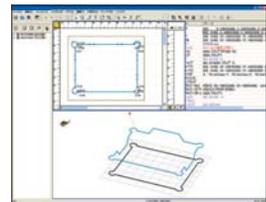
External dimensions



Dispensing pattern editing software **MuCAD V**

Concentration of **No.1** dispensing know-how!

- Intuitive drawing of program
- Easy editing for beginners
- Program transfer from former models (Ω, DS series etc.) supported



MUSASHI ENGINEERING, INC.

<http://www.musashi-engineering.co.jp/english/>

MUSASHI ENGINEERING, INC. is certified and registered according to ISO14001 ENVIRONMENTAL MANAGEMENT.



World Leading Dispenser
MUSASHI ENGINEERING, INC.

HEAD OFFICE
 8-7-4, Shimorenjaku, Mitaka, Tokyo, 181-0013, Japan TEL : (81)422-76-7111 / FAX : (81)422-76-7122
BRANCH
 TOKYO, OSAKA, NAGOYA, SENDAI, FUKUOKA, SAITAMA, NAGANO, EAST-KANTO, AKITA

SINGAPORE BRANCH 20 Bendemeer Road, #06-13 CyberHub Singapore 339914
 TEL : (65)6258-2422 / FAX : (65)6258-4844

MUSASHI ENGINEERING (THAILAND) CO., LTD.
 No.12 Soi Bangna-Trad 25, Bangna, Bangna, Bangkok 10260 Thailand
 TEL : (66)2-769-5708 / FAX : (66)2-769-5450

INDONESIA BRANCH
 Jl. MH. Thamrin, Robson Square, Block A-15, Lippo Cikarang, Bekasi 17550, Jawa Barat, Indonesia
 TEL : (62)21 8990 5005/ FAX : (62)21 8990 5004

MUSASHI ENGINEERING EUROPE GMBH
 Leopoldstrasse 244, 1.Stock 80807 Munich Germany
 TEL : (49)89 208039 470 / FAX : (49)89 208039 478

MUSASHI ENGINEERING KOREA, LTD.
 902 No. 9 F. #C, Korea Bio Park, 694-1 Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-400, Korea
 TEL : (82)31-702-3811 / FAX : (82)31-702-3881

TAIWAN BRANCH
 8F-2, No. 158, Sec. 2, Gongdao 5th Road, Hsinchu, Taiwan 30070
 TEL : (886)3-572-9200 / FAX : (886)3-572-9300

US Integrator and representative



Izumi International, Inc.
 1 Pelham Davis Circle, Greenville, SC 29615 USA
 Tel: 864-288-8001 Fax: 864-288-7272
 E-mail: us-sales@izumiinternational.com
 Web: www.izumiinternational.com