

The fusion of dispensing “Core” technologies
MUSASHI’s desktop robot

精
剛
力

Newly
Developed

Unrivaled
“Precision” and
“Rigidity”



Precision High levels of dispensing quality for enhanced yield

Rigidity High-speed, stable operations of heavy-duty tools and work pieces



◆ **Equipped with SynchroSpeed™ PAT.P NEW**

Achieve a constant drawing width, regardless of robot speed. Reduce takt time to a minimum for ultimate production efficiency

Aiming for higher dispensing quality

Improved linkage with the dispenser

- Reconfigurable dispense conditions from robots **NEW**
- Simple test shot for improved dispensing quality **NEW**
- 3D/Spline interpolation
- Nozzle adjuster **NEW**

Simple, automatic correction of the nozzle position after syringe replacement

Improved usability

New teaching pendant

- Interactive navigation **NEW**
- Easy-to-view, large backlight screen
Dual screen for easier programming



- Inter-robot program copy **NEW**
- Embedded Stopwatch **NEW**
- Japanese, English and Chinese support **NEW**

Multi-skill support

Enhanced hardware configuration

- No misalignment and no loss in synchronization **NEW**
- Built-in Brake
To prevent robot head from falling during emergency stops
- External input/output: 26 ports **NEW**
- High-speed USB communication **NEW**

Image Recognition
350PC Smart mountable



Specifications

Product Name	SHOTMINI 200 OMEGAX	SHOTMASTER 300 OMEGAX	SHOTMASTER 400 OMEGAX	SHOTMASTER 500 OMEGAX
Model	SM200OMEGAX-3A-SS	SM300OMEGAX-3A-SS	SM400OMEGAX-3A-SS	SM500OMEGAX-3A-SS
Number of controlled axes	3 axes			
Control method ⁽¹⁾	PTP control, interpolation control			
Travel range	X axis, Y axis	200mm	300mm	400mm
	Z axis	80mm		
PTP operation speed setting range ⁽²⁾	X axis, Y axis	1~500mm/s		
	Z axis	1~400mm/s		
Interpolation operation speed setting range ⁽²⁾	X axis, Y axis	0.1~500mm/s		
	Z axis	0.1~400mm/s		
Interpolation	3D line, 3D circular arc / circular, 3D elliptical arc / ellipse, spline			
Repetitive positioning accuracy ⁽³⁾	X axis, Y axis	±0.005mm		
	Z axis	±0.005mm		
Transportable weight ⁽⁴⁾	Y axis	20kg		
	Z axis	15kg		
Number of I/O signal points	General input	26 points		
	-purpose output	26 points		
Program entry method	Teaching pendant and PC			
Display language	Japanese, English, Chinese			
Program capacity ⁽⁵⁾	40,000 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	130W		180W	
Adaptive fuse	250V T5.0A (φ5×20 mm) time-lag fuse			
External dimensions ⁽⁶⁾	W380×D460×H590mm	W510×D570×H590mm	W610×D670×H590mm	W710×D770×H590mm
Weight	30kg	40kg	55kg	66kg
Other functions	Test shot, eject condition CH switching, SynchroSpeed™, data transfer with teaching pendant			
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 (soon-to-be-released), EU RoHS			

¹ PTP control: Each of the specified axes moves to the end coordinate at a set speed.

Interpolation control: Each of the specified axes moves to the end coordinate at an interpolated composite speed.

² Varies according to factors such as the weight of the object mounted, the object's center of gravity, and the operation performed.

³ This value is measured using Musashi's prescribed method (measurement method consistent with JIS).

⁴ When options are not mounted. Varies according to the set speed, set acceleration / deceleration time, and operation mode.

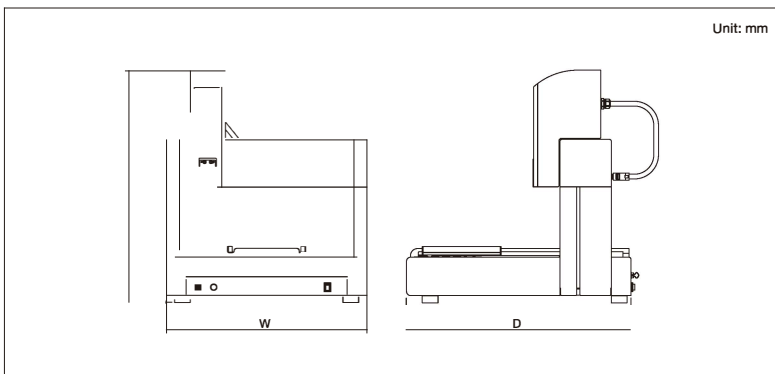
⁵ Main routine: 1 to 99CH, Sub routine: 100 to 999CH.

⁶ W and D are the dimensions of the lower section of the case.



SHOTmini200QX SHOTMASTER300QX SHOTMASTER400QX SHOTMASTER500QX

External dimensions



Fusion of unrivaled dispensing know-how!

- Intuitive program drawing
- Easy editing for beginners
- Support for transferring programs from previous models (Ω / DS series, etc.)



World Leading Dispenser
MUSASHI ENGINEERING, INC.

Europe Office
Marcel-Breuer-Str. 15
80807 Munich / Germany
TEL: +49 (0)89 32 19 96 06
FAX: +49 (0)89 32 19 96 07

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, KANAZAWA

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



Accelonix

keeping you ahead.

Accelonix BV ■ Luchthavenweg 18-b ■ NL-5657 EB Eindhoven
www.accelonix.nl ■ info@accelonix.nl ■ Tel.+31-40-7501650