

SHOTMASTER® 500Ωx-SS
 SHOTMASTER® 400Ωx-SS
 SHOTMASTER® 300Ωx-SS
 SHOTmini® 200Ωx-SS

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

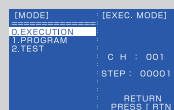
Improved linkage with the dispenser

- 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**

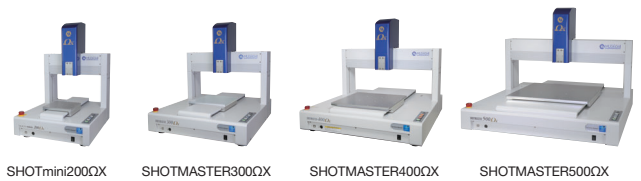
Image Recognition
350PC Smart mountable



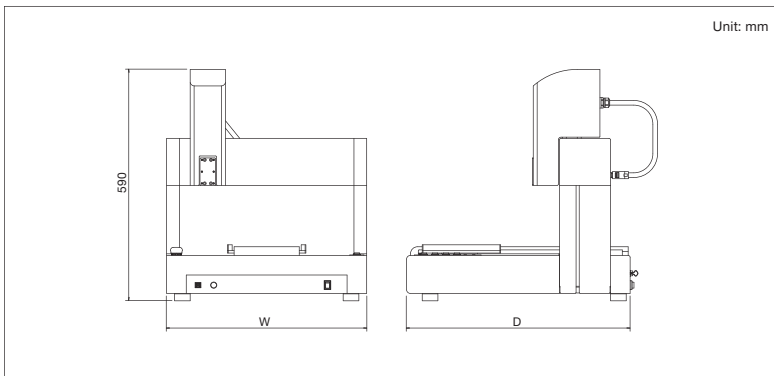
Specifications

| 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 ^(*) | PTP control, interpolation control | | | | | | | | |
| Travel range | X axis, Y axis | 200mm | 300mm | 400mm | 500mm | | | | |
| | 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.



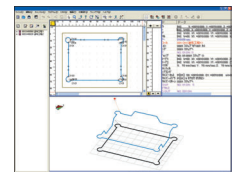
External dimensions



Dispensing pattern editing software MuCAD V

Fusion of unrivaled dispensing know-how!

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



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



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

World Leading Dispenser
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