

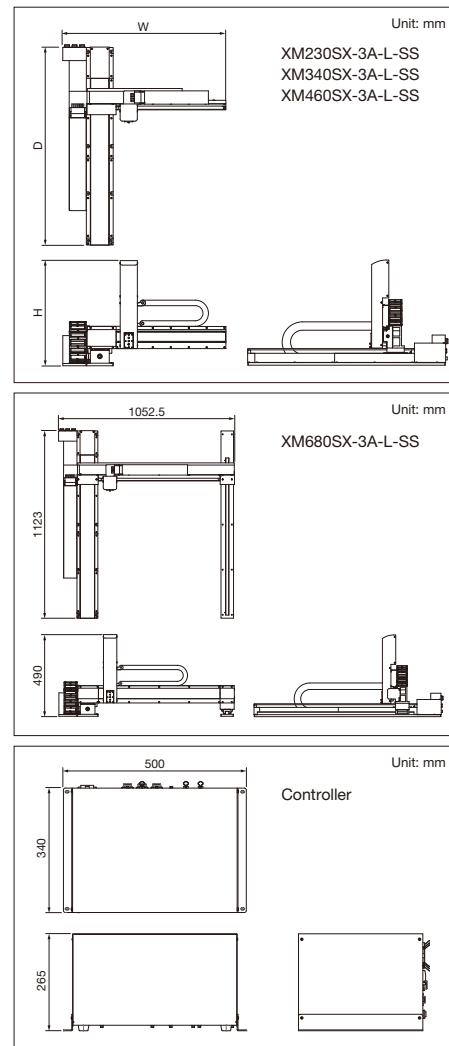
Specifications

Name	CROSS MASTER Sx series			
Model	XM230SX-3A-L-SS XM230SX-3A-R-SS	XM340SX-3A-L-SS XM340SX-3A-R-SS	XM460SX-3A-L-SS XM460SX-3A-R-SS	XM680SX-3A-L-SS XM680SX-3A-R-SS
Number of controlled axes	3 axes			
Control method ⁽¹⁾	PTP control, interpolation control			
Travel range	X axis	200 mm	300 mm	400 mm
	Y axis	300 mm	400 mm	600 mm
	Z axis	150 mm		
PTP operation speed setting range ⁽²⁾	X axis	1 to 500 mm/s		1 to 470 mm/s
	Y axis	1 to 500 mm/s		1 to 1000 mm/s
	Z axis	1 to 300 mm/s		
Interpolation operation speed setting range ⁽²⁾	X axis	0.1 to 500 mm/s		0.1 to 470 mm/s
	Y axis	0.1 to 500 mm/s	0.1 to 999.9 mm/s	
	Z axis	0.1 to 300 mm/s		
Interpolation	3D line, 3D circular arc / circular, 3D elliptical arc / ellipse, spline			
Repetitive positioning accuracy ⁽³⁾	X axis	±0.01 mm		
	Y axis	±0.01 mm		
	Z axis	±0.01 mm		
Transportable weight ⁽⁴⁾	2.5 kg			
Number of I/O signal points	General-purpose input	20		
	General-purpose output	23		
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 by a PC with program editing software		
Program editing software	MuCAD™ V (option)			
Rated power supply and frequency	AC200 to 240 V, 50/60 Hz			
Power consumption	200W		300W	
Main body external dimensions (excluding protrusions)	Width (W)	565 mm	635.5 mm	760 mm
	Depth (D)	565 mm	651 mm	923 mm
	Height (H)	470 mm		490 mm
Main body weight	25.5 kg	28.5 kg	44.5 kg	67.5 kg
Controller external dimensions (excluding protrusions)	W500 x D340 x H265 mm			
Controller weight	18 kg			
Other functions	Test shot, eject condition CH switching, Synchro Speed™, data transfer with teaching pendant, field network communication			
Other options	Teaching pendant set, external operation box (horizontal / vertical), holder units, test shot unit, nozzle adjuster, nozzle cleaner, signal tower light unit, field network unit (CC-Link)			
Compatible standards	EU RoHS			

¹ PTP control: Each of the specified axes move to the end coordinate at a set speed.
Interpolation control: Each of the specified axes move 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 99 CH, sub routine: 100 to 999 CH

External dimensions



Safety precaution
Make sure to read the instruction manual before you use the unit, for your safety.

* We reserve the right to change the specifications without notice.
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<http://www.musashi-engineering.co.jp/english/>

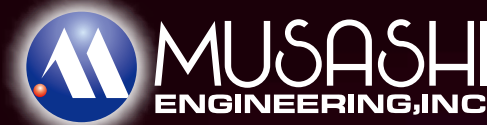
World Leading Dispenser
MUSASHI ENGINEERING, INC.

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CAT. No. CROSSMASTER-04182-E-COPY



For Inline Production
**Versatile
Orthogonal Machine**

X CROSS MASTER™ Sx series

Debut

MUSASHI's Inline Motion Unit





The fusion of dispensing know-how

Precision inline motion unit

CROSS MASTER™ debut!



MuCAD™ dispensing pattern editing software

[Change types instantly]

With the ability to easily manage programs for each type, a changeover is instant when changing types.



[Displayable DXF and Gerber file]

A wide variety of data formats are available, including DXF, Gerber, JPEG, and BMP.

[Automatically generates array program]

Instantly adapts to any of various work arrangements like staggered and/or multi-piece layout. Also equipped with "Copy/Rotate/Invert" features.

[Automatically generates chip patterns on a wafer]

A wafer-mapping feature is available.

[Easily divides into paint and no-paint areas]

A masking mode is available.

Aiming for higher dispensing quality

Improved linkage with the dispenser

- Able to dispense any complex shapes
⇒ Freely draws also 3D arcs and splines
- Independent condition setting also available for each point
⇒ Remotely selectable parameters during an auto-run
- Eliminates difficult adjustment to help improve productivity
⇒ Simple, automatic correction of the nozzle position after syringe replacement (Nozzle adjuster **NEW**)

Improved usability

New teaching pendant

- Easy to transfer programs to multiple robots
⇒ Program transfer available without PC **NEW**



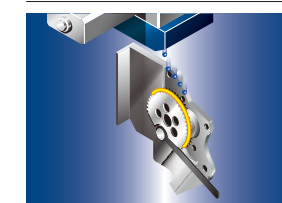
Multi-skill support

Enhanced hardware configuration

- No misalignment and no loss in synchronization
- Prevents the robot head from falling during emergency stops
⇒ Equipped with brakes
- 26 external I/O signals **NEW**
- Fast communication with MuCAD™ **NEW**
⇒ Equipped with USB ports

Field Network Supported

Applications



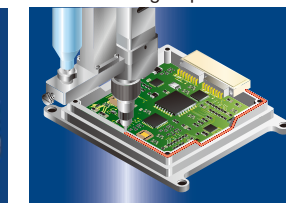
Grease JETTING on a door lock parts



Liquid gasket sealing of an engine parts



Dispensing solder paste on IGBT modules



Liquid gasket sealing of an ECU

Highest-in-class repetitive positioning accuracy of ±0.01 mm

Keeping the line width constant even when drawing a corner

Equipped with Synchro Speed™ PAT.P **NEW**
Keeps takt time to a minimum for ultimate production efficiency

