MUSASHI ENGINEERING, INC.

Desk-top dispensing robot with PC control image recognition

IMAGE MASTER®
350PC Smart

"Smart" 350PC renewed version, now available!!

Smart 3-D alignment function equipped!
Complete alignment of pallet/work tilt

NEW

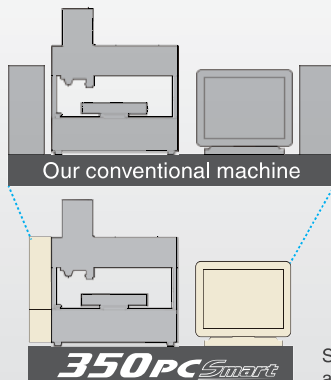### Smart specifications

① **Space reduced by 30%**

② **Tact time reduced by 30%**

③ **Multi-language support**

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① Space reduced

Compact footprint achieved by smart design

The system installation space has become more compact thanks to the introduction of the touch-panel-integrated PC and slim control box. Working space, therefore, will be extended.
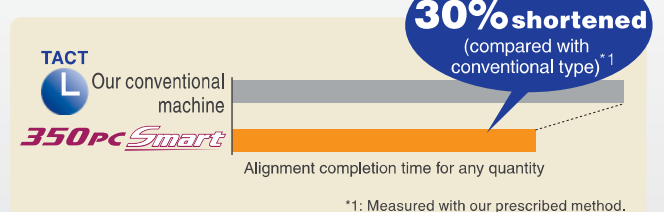
Our conventional machine

30% reduced
(compared with conventional type)

350PC Smart

Setting anywhere with less and smart wiring

Applications

This machine is best suited for processes in which dispensing is performed on works with distortion or warpage and in which works have severe dispensing prohibited areas.

Smartphone cover sealing　　**ECU sealing**

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② Tact time reduced

Our original smart 3-D technology equipped

The 3-D alignment processing speed has been significantly improved as compared with our conventional type. Working hours will be shortened.
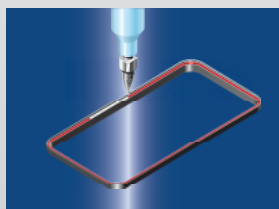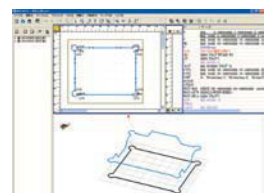
30% shortened
(compared with conventional type) *1

TACT

Our conventional machine

350PC Smart

Alignment completion time for any quantity

*1: Measured with our prescribed method.

③ Multi-language support

Ready for Japanese, English, Chinese, and Korean

350PC Smart bundled software

Smart program　**MuCAD IV®**　NEW

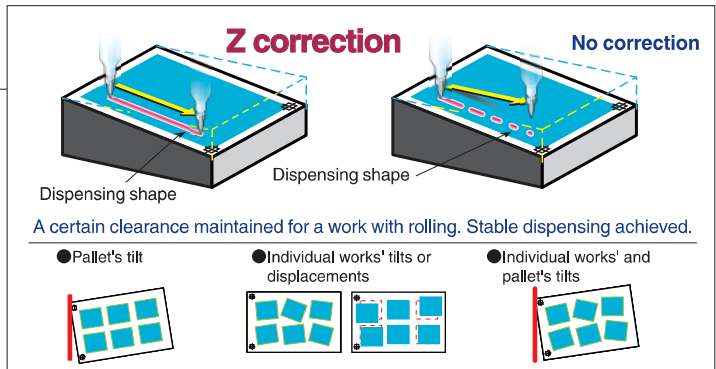**350PC Smart and MuCAD perfectly operating together.**

Dispensing program can be edited via PC operation. Programming is smartly supported; for example, programs can be created on the basis of work images.
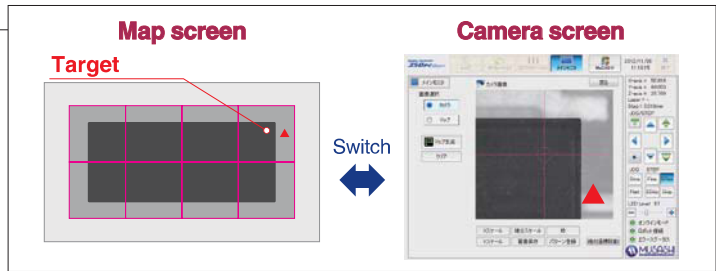
3-D alignment function

· The 3DA (3-D Alignment) function allows the XYΘ correction according to the tilt of a pallet and a work and the Z correction according to rolling and warpage of them to be performed. Stable dispensing along the work shape has been achieved.

Simple target finding
Speedy "Map Function"

· Selection of an intended position in the large area displayed map image on the monitor leads to zooming in on a target at a stroke. Superior camera operability provides simple target finding. This function shorten working hours for dispensing programming and preconditioning up to an actual object to be significantly.

Z correction — **No correction**

Dispensing shape — Dispensing shape

A certain clearance maintained for a work with rolling. Stable dispensing achieved.

●Pallet's tilt ●Individual works' tilts or displacements ●Individual works' and pallet's tilts

Map screen — **Camera screen**

Target — Switch

Useful functions for observation and record

· **Measurement function**

A target object can be measured and displayed in actual size on the monitor of the camera. This function can be used for examining the diameter of a dispensing point, the line width of a dispensing line, and more.

· **Image log function**

Map images and camera images can be saved. Whole photos before and after dispensing, enlarged photos of work structures, dispensing results and more are recorded by this function.
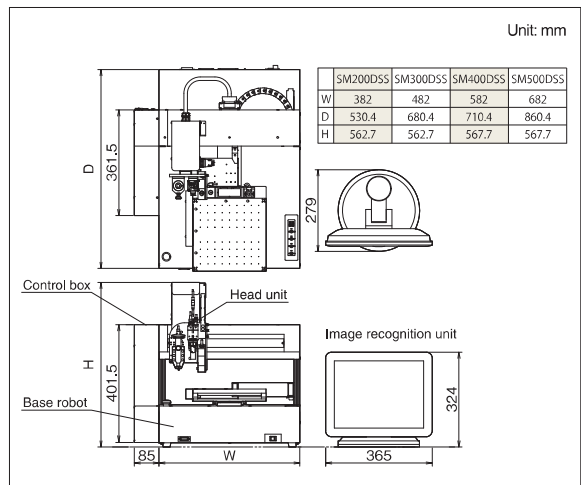
System configuration

【 Basic Unit 】

Unit name	Model	Remark
Image recognition unit	350PCSMART－□□	Selection from J (Japanese), E (English), SC (Chinese), and K (Korean)
Control box	VSU350SMART－BOX	Mounted on desktop robot
Dispense pattern editing software	MuCADⅣ	Bundled software
Base robot	SM□□□DSS-3A	Stroke: 200 mm to 500 mm Selection within the range of above strokes
Head unit	VSU350SMART－ZUNIT01	
Height sensor	VSU350SMART－HSS01	Standard type
	VSU350SMART－HSSOP01	Mirror surface/transparent body compliant
UT Work base	SMDS－UTWB□□□-□□	Select work base size and additional functions (temperature control, vacuum, etc.)
Utility unit	VSU350－UT1	Auxiliary unit to keep high dispensing quality. UT Work base required.
Work base	SMDS－WB□□□	Select work base size and additional functions (temperature control, vacuum, etc.)

【 Option Unit 】

Unit name	Model	Remark
Safety cover	SMDS－CV□-□□□	Select by desktop robot size and additional functions of safety covers
Signal tower	VSU350SMART－STW	
Teaching pendant	TP－11	
External operation box	SMDS－BX－□	Select between sheet type or button type
Lens magnification change	VSU－LNS－□□	Select various type lens when changing from standard magnification of 2.0

External dimensions

Unit: mm

	SM200DSS	SM300DSS	SM400DSS	SM500DSS
W	382	482	582	682
D	530.4	680.4	710.4	860.4
H	562.7	562.7	567.7	567.7

Control box — Head unit
Base robot — Image recognition unit

361.5 / 279 / 401.5 / 324 / 85 / W / 365

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世界のディスペンサー
武蔵エンジニアリング株式会社
MUSASHI ENGINEERING, INC.

Ihr Ansprechpartner