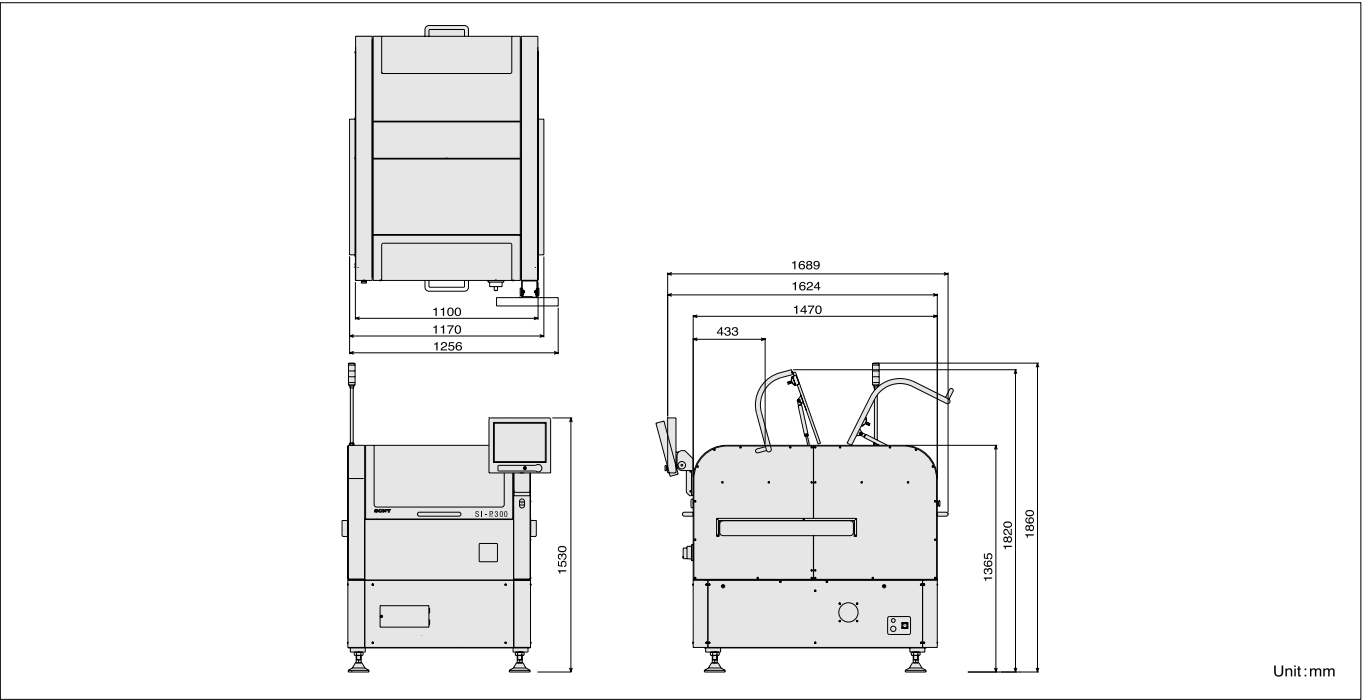


■Main specifications

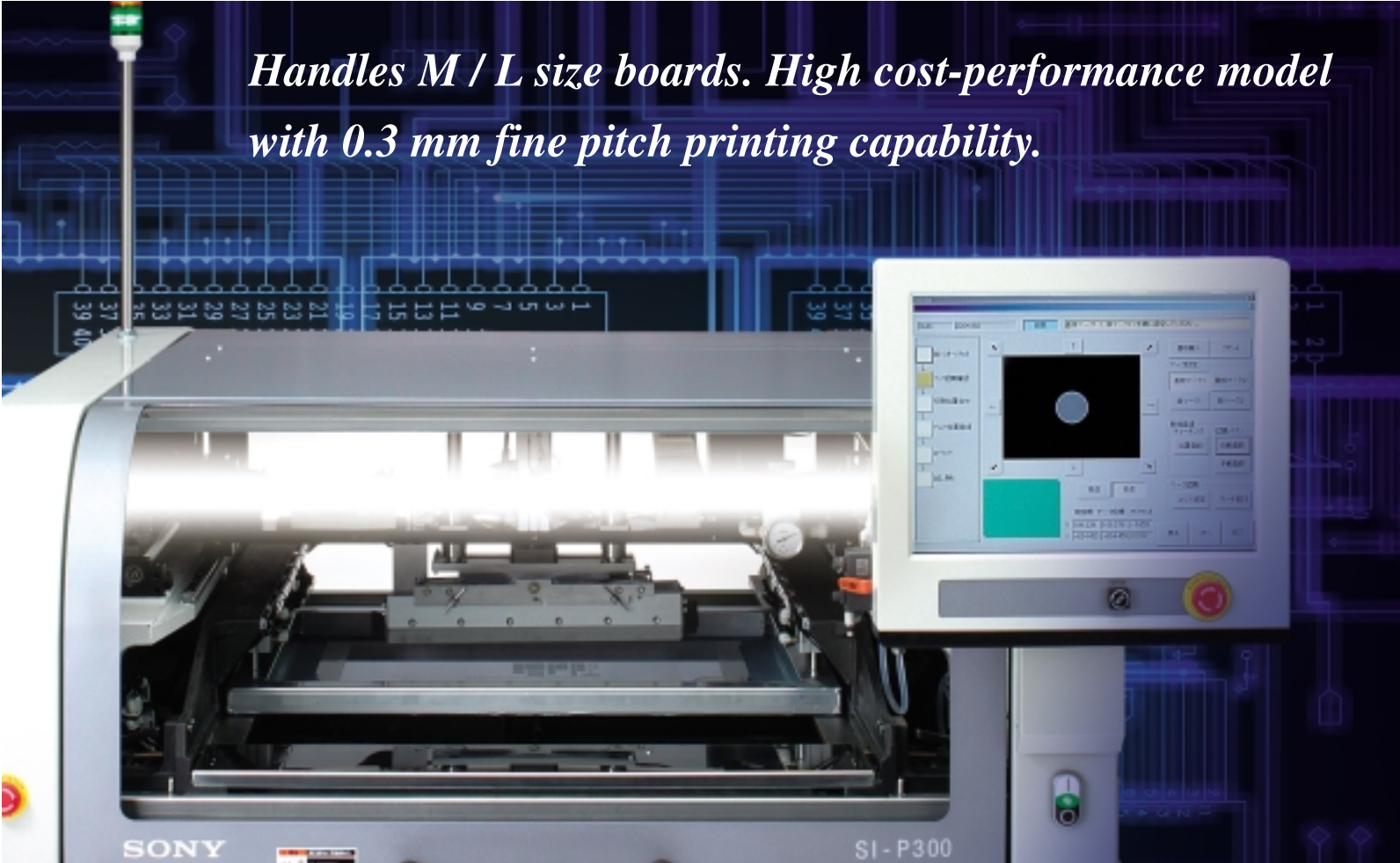
Model name	SI-P300
Board size	50 x 50 ~ 510 x 460 mm
Board thickness	0.4 ~ 3.0 mm
Screen size	550 x 650 ~ 750 x 750 x 30 mm (6 types)
Work flow direction	Right to left or left to right
Board position reference	Front or Back
Conveyor height	900 mm (-10 ~ +50 mm)
Printing repeatability	± 20 μm.
Cycle time	10 sec + printing time
OS, Interface	Operating System: Windows, Operator Interface: Touchpanel
Screen cleaning	Full automatic paper cleaning (wet,dry,vacuum) or cloth cleaning (wet,dry)
Power supply / consumption	AC 100 V 50/60 Hz 1.5 kVA (Other power rating optionally available)
Air supply	0.5 MPa
Air consumption	430 Nl/min (Typical 130 Nl/min)
Dimensions	1170 (W) x 1470 (D) x 1530 (H) mm (Machine status light height 1860mm)
Weight	870 kg

■External view



SONY

Solder Paste Printer  
SI-P300



Solder Paste Printer

⚠ Safety Notice: For your safety, please read the instruction manual carefully before using the product.  
•Specifications and appearance are subject to change without prior notice. •Windows® is a trademark of Microsoft Corporation.

Sony Manufacturing Systems Corporation

**Sony Manufacturing Systems Corporation**  
Surface Mounter Sales Dept.  
1-10 Kiyokuni-cho, Kuki-shi, Saitama-ken, 346-0035 Japan  
Tel: +81-480-23-4896 Fax: +81-480-23-1425  
<http://www.sonymsms.co.jp>

**Sony Taiwan Limited**  
FA Marketing Group  
6F, 145 Changchun Road Taipei 104, Taiwan  
Tel: +886-2-2522-9760 Fax: +886-2-2522-2396  
<http://www.sony.com.tw/company/family/FA/FA.asp>

<http://www.sonymsms.co.jp/>

The contents of this literature are as of Oct.2005

**Sony Electronics (Singapore) Pte. Ltd.**  
Sony Precision Engineering Center  
No.52 Tuas Avenue 9 Singapore 639193 Tel: +65-6860-8004 Fax: +65-6860-8010

**Sony Manufacturing Systems America, Inc.**  
20381 Hermosa Circle, Lake Forest, CA 92630  
Tel: +1-949-770-8400 Fax: +1-949-770-8408 <http://www.sonymsms.com>

**Sony Manufacturing Systems Europe**  
Headquarters  
Semiconductor & Electronic Solutions A division of Sony United Kingdom Ltd.  
The Heights, Brooklands, Weybridge, Surrey KT13 0XW, UK  
Tel: +44-870-7390122 Fax: +44-1932-817024  
Stuttgart Office  
Hedelfinger Strasse 61, D-70327 Stuttgart, Germany  
Tel: +49-711-5858-777 Fax: +49-711-58 07 15  
<http://www.sonymanufacturing.com>



Used material: 100% recycled paper, recyclable  
Zero-VOC (Volatile Organic Compound) vegetable oil ink

015E-0510-06-01A



Sony Manufacturing Systems Corporation



**Handles M / L size PWBs to flexibly adapt even for frequent changeover.**  
**In addition to high-precision and good solder squeegee capability,**  
**every effort has been made to maximize the ease of use at the production site.**

**SI-P300**  
 Solder Paste Printer

From small boards for mobile devices, such as cellular phones to large boards for home electronics and information systems such as TVs and PCs, the SI-P300 is an excellent cost-performance, high-precision solder paste printer that can handle production of many types of PWBs with one unit. In addition to offering 0.3 mm fine pitch printing, there is an automatic cleaning function to simplify maintenance, and a touchpanel to provide easy operation. The SI-P300 delivers an easy to use system for high-quality PWB production.

# SI-P300

Handles  
M / L size  
PWBs



## High-precision printing with print precision of $\pm 20 \mu\text{m}$ , and 0.3 mm fine pitch

By using dedicated designed rigid frame / table and high-accuracy AC servo repeatability is  $\pm 20 \mu\text{m}$  and can print for fine pitch component such as BGA ( $\phi = 0.28 \text{ mm}$ ,  $P = 0.3 \text{ mm}$ ) and QFP ( $P = 0.3 \text{ mm}$ ) which requires high preciseness

\* However, certain mounting technology conditions must be satisfied.

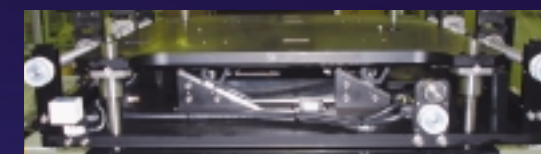


Overprinted 10 times

Print repeat  
accuracy  
 $\pm 20 \mu\text{mm}$

## Stable solder fill rates by perfect plate removal.

Vacuum and two stage plate removal is used for the board removal mechanism. Using high-precision servomotors to control the board removal provides excellent printing results.



## Vision Inspection equipped for post-print inspection

A CCD camera unit is built in to provide afterprint inspection function. In addition to detecting solder points, it is also possible to check solder misalignment, deformation, etc. Easy 100-point inspection allows reliable monitoring of product quality.



Inspection unit with CCD camera

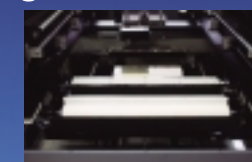


Insufficient solder

Misalignment

## Automatic stencil cleaning function using roll paper or cloth

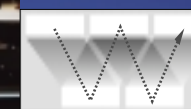
In addition to the conventional roll-paper cleaning method, SI-P300 offers a cloth cleaning method that rivals cleaning manually. Programming is possible for either method, including wet method, dry method, suction, and number of repetitions.



Roll paper



Cloth



## Easy operation by touch panel interface and multi language support

The control software is installed in the Windows OS and operated with an easy-to-use TFT touch panel. Data can be generated within 5 minutes. The panel display can be switched between Japanese, English, Chinese (simplified or traditional) and Korean.



Data generation  
window

