### Screen Printer

- Supporting high accuracy/density printing
- Enhancing automation and labor-saving functions

<table>
<thead>
<tr>
<th>Model ID</th>
<th>SPG2</th>
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</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>NM-EJP1B</td>
</tr>
<tr>
<td>PCB dimensions (mm) 1</td>
<td>L 50 × W 50 to L 510 × W 510</td>
</tr>
<tr>
<td>PCB exchange time  2</td>
<td>14 sec including transfer, PCB positioning and recognition, printing and regular cleaning (when PCB L250 × W150)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>2σ ±4.0 µm, 6σ (±3σ) (Under conditions specified by Panasonic)</td>
</tr>
<tr>
<td>Printing accuracy</td>
<td>2σ ±15.0 µm, 6σ (±3σ) (Under conditions specified by Panasonic)</td>
</tr>
<tr>
<td>Screen frame dimensions (mm)</td>
<td>L 736 × W 736, L 750 × W 750, L 650 × W 550, L 600 × W 550, L 550 × W 650, L 584 × W 584, L 584 × W 736, L 584 × W 736</td>
</tr>
<tr>
<td>Electric source 4</td>
<td>1-phase AC 200, 220, 230, 240 V ±10V (tap changing available) Max. 2.5 kVA</td>
</tr>
<tr>
<td>Pneumatic source</td>
<td>0.5 MPa, 30 L/min (A.N.R.) (Blower motor vacuum spec), 400 L/min (A.N.R.) (injector vacuum spec)</td>
</tr>
<tr>
<td>Dimensions (mm) 5</td>
<td>W 1 580 × D 1 800 × H 1 500</td>
</tr>
<tr>
<td>Mass °</td>
<td>1 600 kg</td>
</tr>
</tbody>
</table>

*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.*

<table>
<thead>
<tr>
<th>*1</th>
<th>Values such as cycle time and accuracy may vary depending on operating conditions. Please refer to the &quot;Specification booklet&quot; for details.</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2</td>
<td>The max PCB width changes when “Paper-less cleaning,” “Support pin automatic exchange” or “Attach angle variable squeegees” has been selected. For details, see specifications.</td>
</tr>
<tr>
<td>*3</td>
<td>PCB exchange time varies depending on the machine in the pre-process and the post process, the PCB size, the use of a PCB pressing-down unit and so forth.</td>
</tr>
<tr>
<td>*4</td>
<td>For mask specifications, please see the specification. *4 Including blower and vacuum pump “Option.”</td>
</tr>
<tr>
<td>*5</td>
<td>Except for the signal tower and the touch panel. *6 With full options.</td>
</tr>
</tbody>
</table>
**Supporting high accuracy/density printing**

- **Attack angle variable squeegee (option)**
  The set squeegee angle can be adjusted, using the front and rear squeegee vertical axes, between 45° and 70°.

- **Top/side clamer (movable type) (option)**
  Pressing down on PCB edge faces increases printing quality of warped PCB. Either PCB upper or side face can be selected for correction.

- **New operation panel**
  ① A large-sized panel (15-inch) introduced to increase ease of use and visibility.
  ② Screen configuration reviewed (a reduction in the number of screens) to decrease the screen handling time required.

  An increase in size from 8.4- to 15-inch

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**Enhancing automation and labor-saving functions**

- **Paper-less cleaning (option)**
  Mask cleaning without cleaning paper or solvent, eliminating paper and solvent exchange operations.

- **Holed pot type automatic solder supply (option)**
  Solder supply automated to promote labor saving and operation without interruption.

- **Support pin automatic exchange (option)**
  Automated collection/arrangement of support pins during changeover to save manpower.

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**M2M Line solution**

According to the correction data of shifted printing positions analyzed by solder paste inspection (APC correction data), it corrects printing positions (X, Y, θ).

*3D inspection equipment of other companies can also be connected.

By connecting with a host system (LNI6, LNB - ), the following can be supported:
  ①Automatic changeover
  ②Material verification (solder/mask/squeegee -)
  ③Trace data output

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**Safety Cautions**

- Please read the User’s Manual carefully to familiarize yourself with safe and effective usage procedures.
- To ensure safety when using this equipment, all work should be performed according to that as stated in the supplied Operating instructions. Read your operating instruction manual thoroughly.

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Panasonic Group products are built with the environment in mind.

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Inquiries:

Changes in specifications and appearance may be made without notice for product improvement.

Homepage: industrial.panasonic.com/www/fa-jisso