EZImprinting introduces a bench-top, stand-alone nanoimprint platform: The PL series **PL200/400/600**.

This platform provides a mechanical stage with micro-positioning fixtures for mounting a nanoimprint chamber, UV-curing source, and alignment microscope.

It functions both as a nanoimprint system and as a traditional mask aligner while providing programmable, automatic control of your entire imprinting process.

**EZImprinting Advantages:**

- **Sub-10nm resolution with 99% yield**
- Supports both hard and soft molds
- Variable mold and substrate sizes offer unparalleled convenience and flexibility
- Auto-Release process prevents mold/substrate damage during separation and maximizes yield per imprint
- Versatile processes for a wide variety of applications: optical devices, displays, data storage, biomedical devices, semiconductor IC’s, chemical synthesis, and advanced materials
- Programmable PLC with touch-screen user interface allows process control through customized parameters
- Proprietary UV-curable nanoimprint resist has no limitations on hardness or thickness, and is compatible with traditional photolithography processes

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### EZImprinting process specifications:

<table>
<thead>
<tr>
<th></th>
<th>PL200</th>
<th>PL400</th>
<th>PL600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substrate size</td>
<td>2” standard (smaller sizes, irregular shapes compatible)</td>
<td>4” standard (smaller sizes, irregular shapes compatible)</td>
<td>6” standard (smaller sizes, irregular shapes compatible)</td>
</tr>
<tr>
<td>Imprint area</td>
<td>Same as wafer size</td>
<td>Same as wafer size</td>
<td>Same as wafer size</td>
</tr>
<tr>
<td>Mold plate size</td>
<td>2” and 1”</td>
<td>4”, 2” and 1”</td>
<td>6”, 4”, 2” and 1”</td>
</tr>
<tr>
<td>Imprint pressure</td>
<td>1 psi standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mold/substrate Auto-Release</td>
<td>Included - no special tools needed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UV exposure time</td>
<td>2-3 min at 95% intensity level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alignment capability</td>
<td>X, Y, Z and theta (accuracy 2 μm)</td>
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</tbody>
</table>

### Technical specifications:

- Control box operating pressure: 45 psi standard
- Control box vacuum: <14 psi
- LED light source: 2” diameter, >5W
- Filtered pressure source: 70-100 psi
- Vacuum source: <14 psi
- Power: 110-220V, 50/60Hz
- Cleanroom class: Class 1000 or better
- Stage: 17” x 15.5” x 10.5”; 80 lbs.
- Touchscreen controller: 6” x 8” x 2.5”; 1.5 lbs.
- Electronic control box: 17” x 14.5” x 5.5”; 11.5 lbs.
- LED UV light source: 11” x 11” x 4.5”; 7 lbs.

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