LU-1N21E
UV Laser Drilling Machine for FPC PCBs

Utilizing 1-Panel/1-Beam structure that supports the FPC PCBs requied for wide variety of production

Via Mechanics, Ltd.
Via Mechanics' unique technological prowess offers you high-quality, micro-diameter drilling for all kinds of materials.

- **High efficiency through high-speed trepanning**
  Drilling speed has been improved using a high-speed Galvano system made in-house. A highly rigid structure realizes both high-speed and high-precision drilling.

- **High efficiency cutting through routing drilling**
  Support for routing drilling (which sees high demand in FPC processing) is also enabled. High-precision and high-efficiency cutting contributes to tooling and other cost reductions.

- **Improved productivity in the production of many kinds in small quantities with 1-Panel/1-Beam structure**
  The panel-feed and roll-feed type loader/unloader that required in FPC processing both can be mounted.

**LU-1N21E / Main Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Max. Drill Area</td>
<td>560 x 620mm (22 x 24inch)</td>
</tr>
<tr>
<td>XY Positioning speed</td>
<td>50m/min</td>
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<tr>
<td>Number of beam</td>
<td>1</td>
</tr>
<tr>
<td>Laser Output</td>
<td>14W</td>
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<tr>
<td>Galvano Scan area</td>
<td>˘50mm</td>
</tr>
<tr>
<td>Drilling Precision</td>
<td>±0.010mm</td>
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<tr>
<td>CNC</td>
<td>MARK-55L</td>
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</tbody>
</table>

**Drilling**

- *Polyimide Material Cu direct Drilling*
  - Through hole (50μm)
  - Blind Hole (50μm)

**Routing**

- *Material: Polyimide t25um / Line width 25um*
  - Straight line
  - Curved line

**Floor Plan**

- A: Laser power source
- B: Cooling unit
- C: Air dryer
- D: Dust collector
- E: Blower unit

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