



Direct Exposure

# DE-6UH IIE

High-Precision Direct Exposure Machine for Package PCBs

The world's highest level resolution and productivity



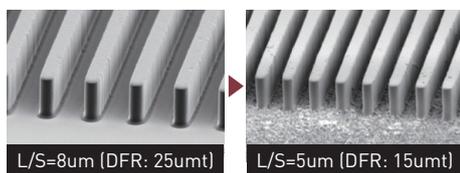
Via Mechanics, Ltd.

# DE-6UH II E High-Precision Direct Exposure Machine for Package PCBs

## The direct exposure machine in the spotlight leading the next generation of circuit formation

### □Combination of resolution and productivity proof of outstanding technology

Aiming at even finer-line patterns, an even more minute beam spot diameter has been achieved through



repeated unique improvements to the patterning engine optical system. Research and development is continuing for a change from the current  $L/S=8\mu\text{m}$  to  $L/S=5\mu\text{m}$ . Furthermore, a scan speed 1.4 times that of conventional models has been achieved, resulting in substantial improvements in productivity while also enabling a pattern positioning precision of  $|AVE|+3\sigma < 7\mu\text{m}$ .

### □The world's leading technological advancement contributing to dramatic productivity improvements

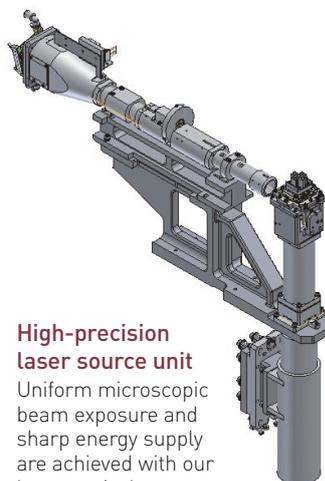
The DE-6UH II E responds flexibly to a variety of scale formulas. Cycle time has been improved through real-time compensation for multi-partition areas and the inclusion of a high precision drive axis for alignment cameras, while more effective per-sheet operation times have lead to dramatic improvements in productivity. Furthermore, a wealth of performance-improving functions are available with visible job creation and automatic condition generation included in the JOB Viewer, and a line controller offering overall product management online.

### □High maintainability

In the pursuit of easier maintenance, the DE-6UH II E has laser output monitoring and correction functions, as well as automatic optical axis monitoring functionality. The main unit has also been made smaller, allowing for a smooth exchange from the contact exposure machine.

### DE-6UH II E/Primary specification

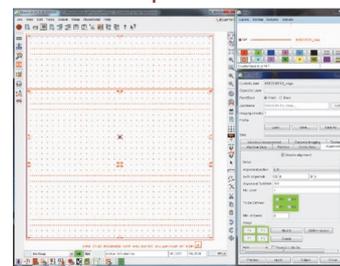
Image Size	610 x 510mm
Min. L/S	8/8um
Productivity	90sheets/h (80mJ/cm <sup>2</sup> , 405 x 510mm)
Positioning Accuracy	$ AVE +3\sigma < 7\mu\text{m}$
Laser Source	Laser Diode 405nm
Exposure type	DMD
Panel fixing type	Vacuum talbe + Mechanical clamp
Scan area dividing	2-16 areas
CNC	MARK-50E



### High-precision laser source unit

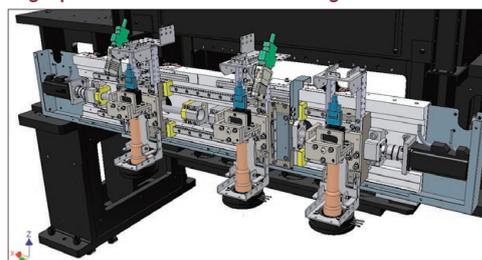
Uniform microscopic beam exposure and sharp energy supply are achieved with our latest optical system

### JOB Viewer operation screen



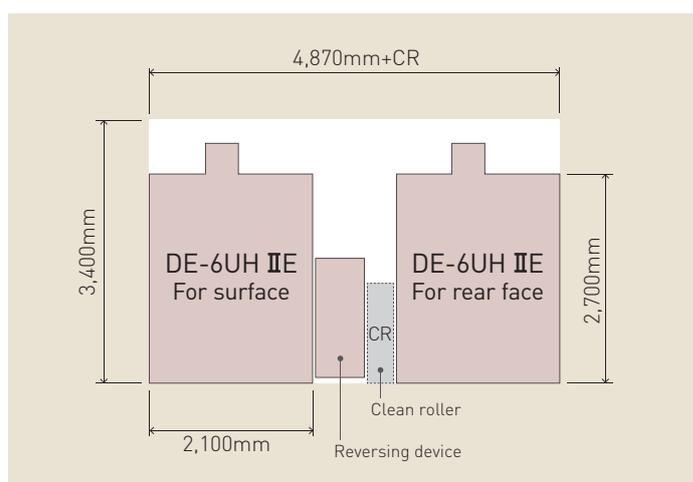
User-friendly operation has been realized through instantaneous confirmation of various patterns

### High precision drive axis for alignment cameras



Alignment time reductions have been achieved irrespective of alignment position

### Floor Plan



## Via Mechanics, Ltd.

Headquarters: 2100, Kami-Imaizumi, Ebina City, Kanagawa Prefecture, 243-0488 Japan  
Tel. +81-46-231-7111 Fax. +81-46-235-9356  
<http://www.viamechanics.com>

