INNOLAS SEMICONDUCTOR

Development and production

of laser and sorting systems

# IL 1000 Laser Marking Series


The Innolas IL 1000 series was developed for simple or advanced marking of a broad range of material types, sizes and geometries. In order to optimise the marking quality for different applications, there are a number of different laser systems available.
The complete system conforms to Laser Class 1 and can therefore be used without the need for safety glasses or other laser protection gear.

Multiple options are available that assist in the set-up and operation of the machine. Some of these options include electrically driven axes (X, Y, Z and R), customized part mounting fixtures and a laser pointer. The IL 1000 Macro series can also include a second laser system, that can be used to increase throughput or to optimize the marking quality on different materials in a single setup.

The graphical user interface with CAD functions offers easy setup of different marking needs. The software also provides the capability to import all commonly used file types such as jpg, tif and others.

STANDARD COLOURS (RAL)

MARKING SAMPLES



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## Technical Specifications IL 1000 Series

### LASER AND OPTICS

| | |
|---|---|
| Laser type: | Nd:YAG and Nd:YVO4 10 and 25 Watts (diode pumped) |
| Laser wavelength: | 1064nm, 532nm and 355nm available in both laser types<br>Fibre laser, CO2 and others on request |
| Laser class: | Class 1 (Class 4 with open cabinet / service access) |
| Beam expansion: | Two lens system |
| Focus lens: | F-Theta objective |
| Galvo head: | Digitally controlled (field: 110x110 mm) |

### MARKING

| | |
|---|---|
| Fonts: | True Type Fonts, Barcodes, 2D Code, JPG, TIF, BMP etc. |
| Serialization: | Numeric and alphanumeric (ascending or descending) |
| Text position: | Adjustable in X and Y direction |

### FACILITY REQUIREMENTS

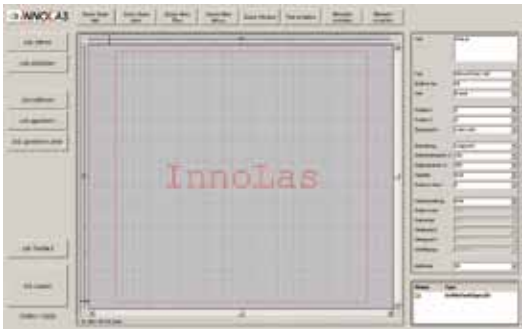
| | |
|---|---|
| Electrical: | 240V AC / 1P / N / PE / 50Hz / 16A<br>208V AC / 2P / N / PE / 60Hz / 20A<br>115V AC / 1P / PE / 60Hz / 30A |
| Weight: | 300kg (660 lb) depending on options |
| Optional facilities: | |
| Vacuum: | -800 mbar (23.6 Hg) - Festo 8mm OD connection |
| Compressed air: | 8 bar (116 psi) - Festo 8mm OD connection |
| Exhaust: | 75m³/hr (44.1ft³/min) - 50mm ID connection |

### STANDARD OPTIONS

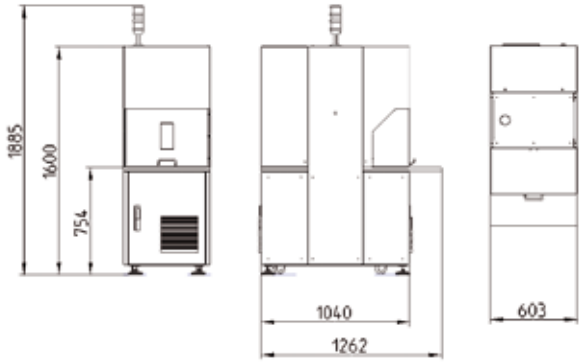
| | |
|---|---|
| X-axis: | Moves the part in x direction |
| Y-axis: | Moves the part in y direction |
| Z-axis: | Adjust height of laser for focus |
| R-axis: | Rotating axis |
| Laser Pointer: | Indicates marking position on part |
| Focus finder: | Allows accurate focus of beam at marking surface |
| Process window: | Laser safety glass (100 x 200mm) |

### CERTIFICATION

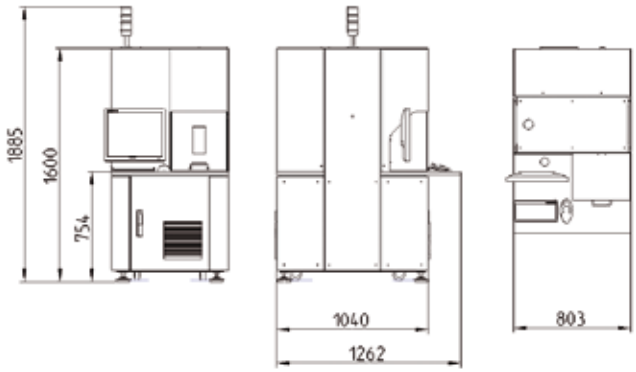
CE certified




IL 1000 Micro Series




IL 1000 Macro Series




Dimensions in mm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