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 setup 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

Development and production

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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 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

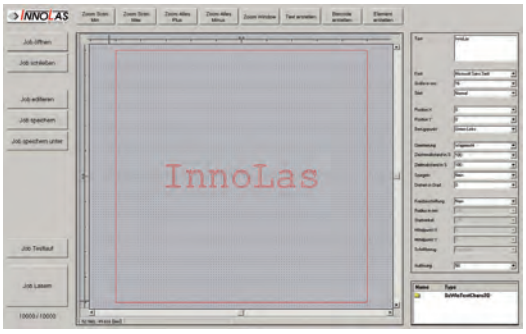
Electrical:	240V AC / 1P / N / PE / 50Hz / 16A 208V AC / 2P / N / PE / 60Hz / 20A 115V AC / 1P / PE / 60Hz / 30A
Weight:	300kg (660 lb) depending on options
Optional facilities:	
Vacuum:	-800 mbar (23.6 Hg) - Festo 8mm OD connection
Compressed air:	8 bar (116 psi) - Festo 8mm OD connection
Exhaust:	75m³/hr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

STANDARD OPTIONS

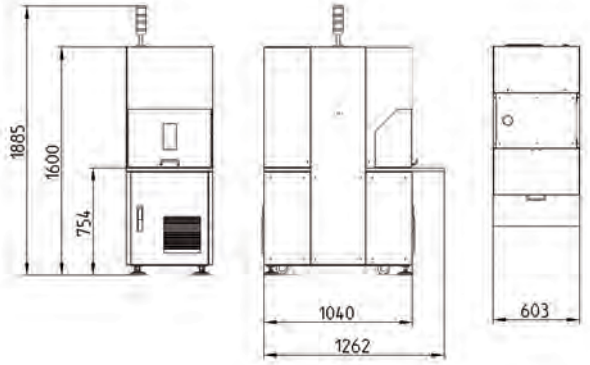
X-axis:	Moves the part in x direction
Y-axis:	Moves the part in y direction
Z-axis:	Adjust height of laser for focus
R-axis:	Rotating axis
Laser Pointer:	Indicates marking position on part
Focus finder:	Allows accurate focus of beam at marking surface
Process window:	Laser safety glass (100 x 200mm)

CERTIFICATION

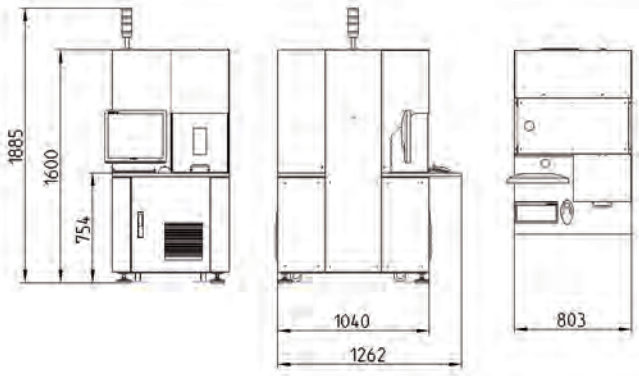
CE certified



IL 1000 Micro Series



IL 1000 Macro Series



Dimensions in mm

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