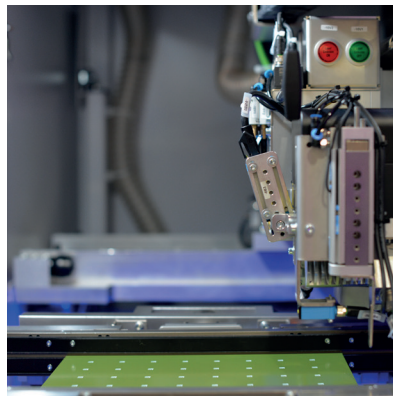
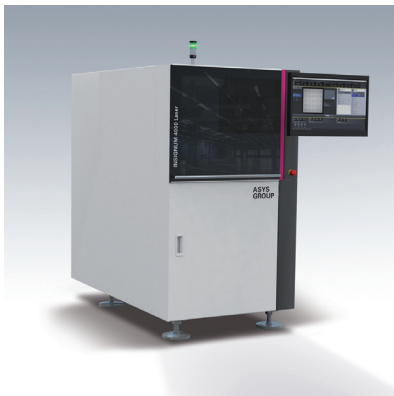


INSIGNUM 4000 Laser



Description

The ASYS inline Lasermarkingsystem, INSIGNUM 4000 Laser, is used for direct laser marking or PCBs. The laser assembly is mounted above the transport system on a linear driven X/Y axis. The PCB to be marked is taken over on the transport system, fixed in position with an integrated side clamp and moved into the target area for lasering. The laser now moves to a pre-programmed position and marks the predefined content, such as barcode, datamatrix codes, plain text or logos onto the product. The code content is verified with a high-resolution camera-system. An optional software-upgrade for fiducial recognition can be used for position correction.

Features

- _ Short cycle times
- _ Smallest module size $\geq 0.127 \text{ mm} \geq 5 \text{ mil}$
- _ Maximum precision
- _ Very compact design
- _ Short transport times
- _ Available as Co_2 -laser or Fibre laser

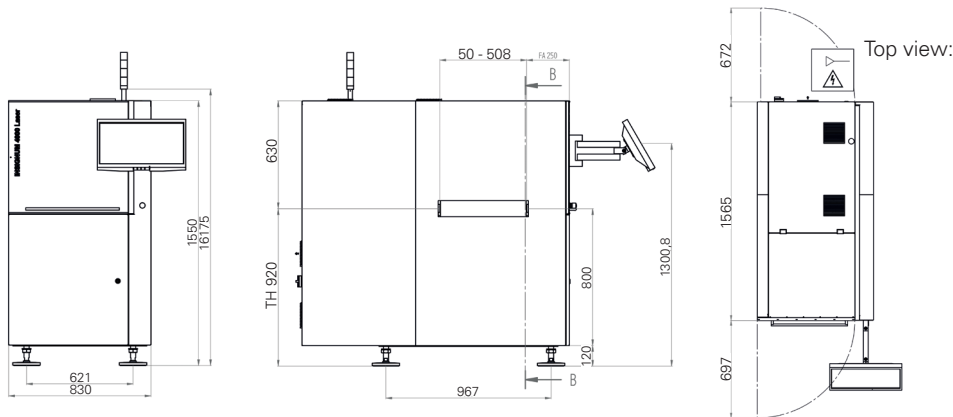
Options

- _ Integrated flip-station
- _ Loader and unloader controlled by the INSIGNUM 4000 Laser
- _ Exhaust system
- _ OPTIMAP – Automatic field mapping for cycle time optimization
- _ Trial & Check

SI SIMPLEX

SIMPLEX is a unique Human Machine Interface for monitoring. Immediately it is clear: operators and their specific needs are the focus. Buttons are optimized for quick touch screen entry and for the conditions in a manufacturing environment and control of highly complex machines





INSIGNUM 4000 Laser

Machine configuration

Transport height	920 mm \pm 50 mm
Max. transport width	508 mm
Interface	SMEMA
Transfer direction	From left to right/from right to left
Operating side	Front of the machine
Fixed rail	Front of the machine

Panel dimensions

Panel length	70 to 508 mm
Panel width	50 to 508 mm
Panel thickness	0.8 to 4.0 mm
Panel weight	Up to 2 kg
Component height	\pm 40 mm (+25/-40 mm for the fibre laser)
Coating	Solder Resist (other coatings upon request)

Installation requirements

Power supply	230V / 115V, 50/60 Hz, \pm 10 %
Power supply system	L1 + N + PE
Power consumption	0.69 kW
Air supply	6 bar
Air consumption	<12 NI/min

Machine description

Length \times Width \times Height	830 \times 1565 \times 1550 mm
Max laser window	80 \times 80 mm
Codes	Data Matrix ECC200 (Cellsize \geq 0.127 mm \geq 5 mil), Code 39, Code 128, 2/5 Interleaved
Positioning accuracy	\pm 0.15 mm@5Sigma
Noise Level	< 75 dB

Upgrades

Machine networking via IC Net