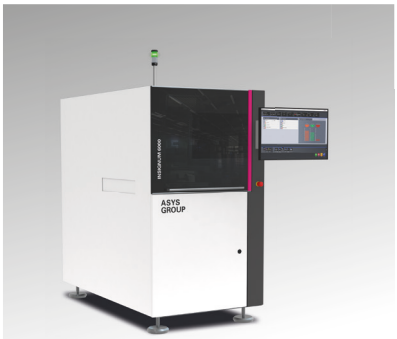
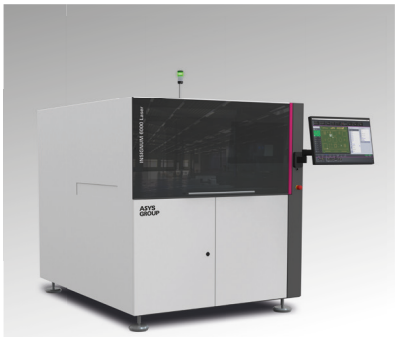
Automatic Laser Marking System **INSIGNUM** Laser

INSIGNUM 6000 Laser



3mil Version

XL Version



XXL Version

Description
The flexible INSIGNUM 6000 platform implements customer-specific requirements in the laser marking field. This includes model variants for double track solutions, the processing of large-size PCBs and the marking of e.g. ceramics, plastics and DBC substrates. Module sizes smaller than 3mil can also be realized. Transport system and laser types are individually adapted to the process requirements.

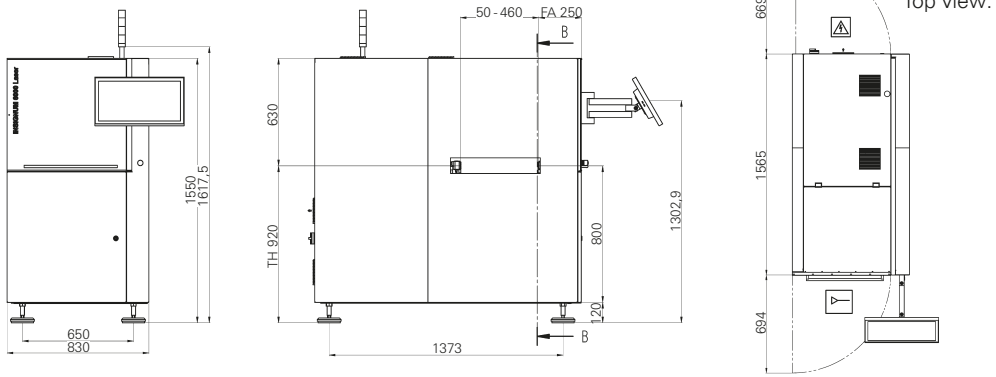
In the basic version, the system is equipped with a 10 Watt CO_2 laser and a transport system. On request, the system can also be equipped with fiber laser.

Features
_ Linear X/Y axis system
_ High-resolution camera
_ SIMPLEX
_ Compact design

Versions & Options
_ 3mil marking
_ XL formats up to 1000 mm (upon request up to 1500mm)
_ Double track
_ Various CO_2 and fiber laser
_ Integrated flip station
_ Fume extraction unit
_ Laser power measurement
_ Offline programming station (programming of the system during production)
_ Product Pool (connection of INSIGNUM systems to reduce set-up times)
_ Connection to MES via ASYS Standard Interface
_ Customized MES/ERP connections

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 6000 Laser

	Version 3mil
Machine configuration	
Transport height	920 mm ± 50 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 420 mm
Panel width	50 to 320 mm
Panel thickness	0.8 to 4.0 mm
Panel weight	Up to 2 kg
Component height	± 40 mm
Coating	Solder Resist
Installation requirements	
Power supply	230 V / 115 V, 50 / 60 Hz, ± 10 %
Power supply system	L1 + N + PE
Power consumption	0.69 kW
Air supply	6 bar
Air consumption	<12 Nl/min
Machine description	
Length × Width × Height	830 × 1565 × 1550 mm
Max laser window	60 × 60 mm
Codes	Data Matrix ECC200 (Cellsize 3 mil), Code 39, Code 128, 2/5 Interleaved
Positioning accuracy	± 0.1 mm@5Sigma
Noise Level	< 75 dB
Upgrades	
Machine networking via IC Net	

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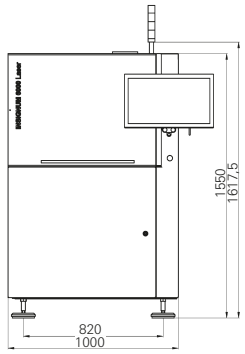
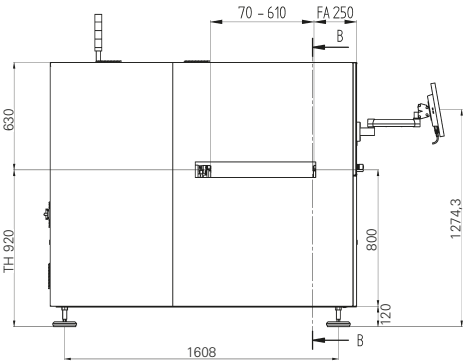
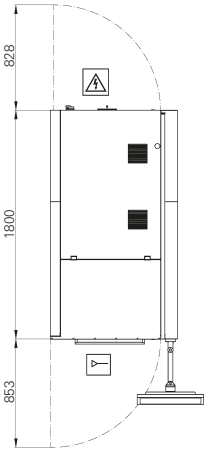




Top view:



INSIGNUM 6000 Laser

	Version XL
Machine configuration	
Transport height	920 mm ± 50 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 610 mm
Panel width	50 to 610 mm
Panel thickness	0,8 to 4,0 mm
Panel weight	Up to 3 kg
Component height	± 40 mm
Coating	Solder resist (color change)
Installation requirements	
Power supply	230 V / 115 V, 50 / 60 Hz, ± 10 %
Power supply system	L1 + N + PE
Power consumption	0,69 kW
Air supply	6 bar
Air consumption	<12 Nl/min
Machine description	
Length × Width × Height	1000 × 1800 × 1550 mm
Max laser window	80 × 80 mm
Codes	Data Matrix ECC200 Code 39, Code 128, 2/5 Interleaved
Noise Level	< 75 dB
Upgrades	
Machine networking via IC Net	

ASYS GROUP

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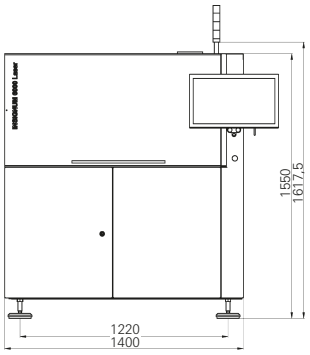
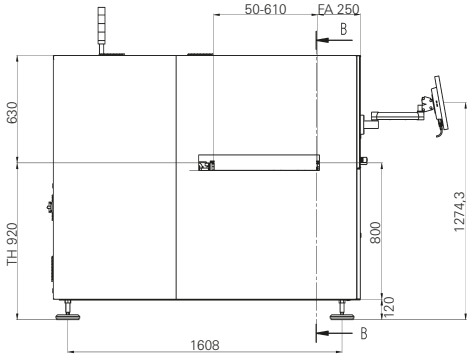
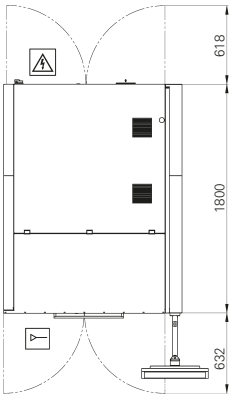




Top view:



INSIGNUM 6000 Laser

	Version XXL
Machine configuration	
Transport height	920 mm ± 50 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 1000 mm
Panel width	50 to 610 mm
Panel thickness	0,8 to 4,0 mm
Panel weight	Up to 3 kg
Component height	± 40 mm
Coating	Solder resist
Installation requirements	
Power supply	230 V / 115 V, 50 / 60 Hz, ± 10 %
Power supply system	L1 + N + PE
Power consumption	0,69 kW
Air supply	6 bar
Air consumption	<12 Nl/min
Machine description	
Length × Width × Height	1400 × 1800 × 1550 mm
Max laser window	80 × 80 mm
Codes	Data Matrix ECC200 Code 39, Code 128, 2/5 Interleaved
Noise Level	< 75 dB
Upgrades	
Machine networking via IC Net	

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