ASYS The Perfect Match for Any Application

Scaling from low-cost to high-end models the INSIGNUM Series covers all requirements of laser marking. The machines of the series could be used as offline and inline system. Thereby a matching CO_2-laser or fiber-laser is integrable for each application. Metals, synthetics or ceramics – the INSIGNUM Series offers an optimal marking solution for all kind of solid material.

The entry level model **INSIGNUM 1000 Laser** is equipped with a drawer system as standard. Furthermore the machine could be optionally extended with a transport system.

The **INSIGNUM 3000 Laser** is a cost-effective machine for PCB marking using CO_2 lasers. The machine is designed for high-mix and low-volume production and impresses with its convenient operation, high accuracy and a variety of options to individually adapt the process to your production.

The high-end system of the INSIGNUM Series, the **INSIGNUM 4000 Laser**, convinces with highest precision and a top cycle time of less than 4.9 seconds for a complete marking process including handling. Thanks to an integrated flip-station the machine becomes even more efficient. The complete flip handling takes 1.5 seconds.

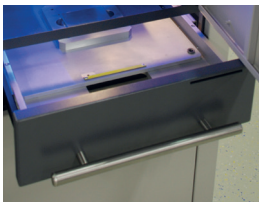
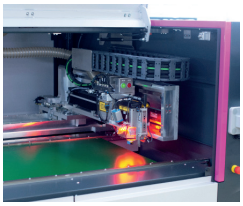
The flexible **INSIGNUM 6000 Laser** platform implements customerspecific requirements in the laser marking feld. This includes model variants for double track solutions, the processing of large-size PCBs and the marking of e.g. ceramics, plastics and DBC substrates. Module sizes smaller than 3mil can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

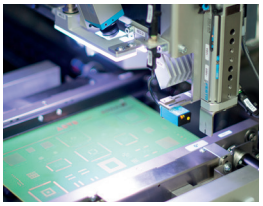
ASYS GROUP

Visit our website.
www.asys-group.com

Our service support speaks for itself

- **High quality service team**
- **24 hour service hotline**
- **Short reaction times**
- **Worldwide maintenance service, operator and process trainings**
- **Support via remote service**
- **Global service network with contact points in more than 40**



	INSIGNUM 1000 Laser	INSIGNUM 3000 Laser	INSIGNUM 4000 Laser	INSIGNUM 6000 Laser
Marking Area up to [mm]				
400×400 (max. PCB size 460 × 460)		●		
508×508			●	
610×610				●
1000×610				●
Marking Criteria				
Code size 3 mil				●
Code size 5 mil	●	●	●	●
Verification				
Scan after Print	○	●	●	●
2D Quality Check	○	○	○	○
Scan on the Fly at the inlet	∗	∗	○	○
Scan from below	∗	∗	○	○
OPTIMAP			○	○
RGB Lighting			○	○
Try & Check (Testmarking)			○	○
Good/Bad sorting	○	○	○	○
Software Solutions				
INSIGNUM Product-Pool	○	○	○	○
INSIGNUM Offline-Programming-Tool	○	○	○	○
INSIGNUM Standard Interface	○	○	○	○
MES database connection	○	○	○	○
Transport				
Dual lane / Dual track flexible				●
Automatic width adjustment	○	○	○	○
Bidirectional Transport	○	○	○	○
External flip station	○		○	○
Integrated flip station		○	○	○
PCB thickness < 0,8 mm			○	○
Side clamps	○	●	●	●
PCB support	○	○	●	●
Fast PCB Exchange	○		○	○
Right to left	○	○	○	○
Marking Unit				
Fiber laser 20/40 watt	○		○	○
CO_2-laser 10 watt	●	●	●	●
Customized laser sources (e.g.Greenlight laser)				○
Adjustable focus (focus shifter)	○			○
Stationary laser from bottom	∗			∗
Position and Fiducial Recognition				
Camera fiducial recognition		○	○	○
Camera bad-mark recognition		○	○	○
Camera type orientation check		○	○	○
Other				
Exhaust	○	○	○	○
Remote access	○	○	○	○
Calibration Set		○	○	○

● Standard
○ Option
∗ On Request

Laser
CO_2-Laser 10600 nm
Fiber Laser 1064 nm

Upgrades
Line networking via IC-Net
Flexible dual lane version

PCB Size
(1) Only with integrated flip station possible