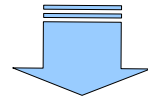
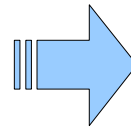
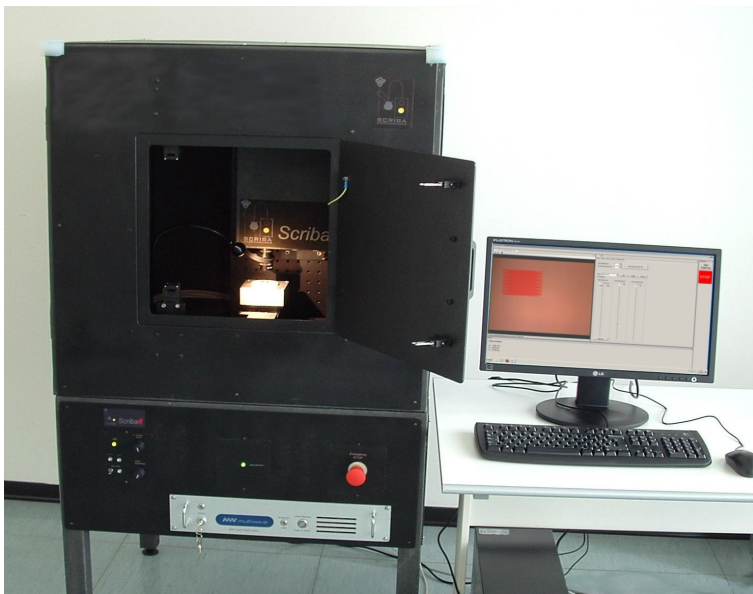


SCRIBA
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Scriba^R

Multifunction Laser Marker



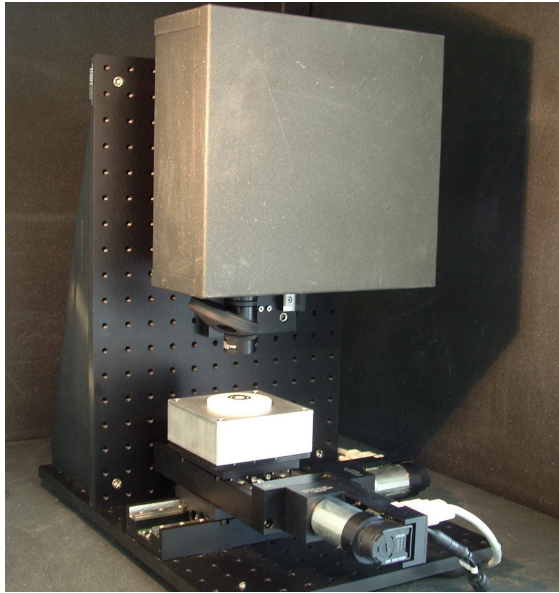
Description

Scriba^R is a Multifunction Laser Marker enabling direct fabrication, writing and rapid prototyping without masks of a variety of:

- Printed circuits,
- Microfluidics,
- Resists,
- Masters,
- Contact shadow masks,
- Dot matrix and bar codes,
- Alignment and identification marks,
- Patterned multifunctional material thin films.

Feature size and resolution can be as small as a few micrometers.

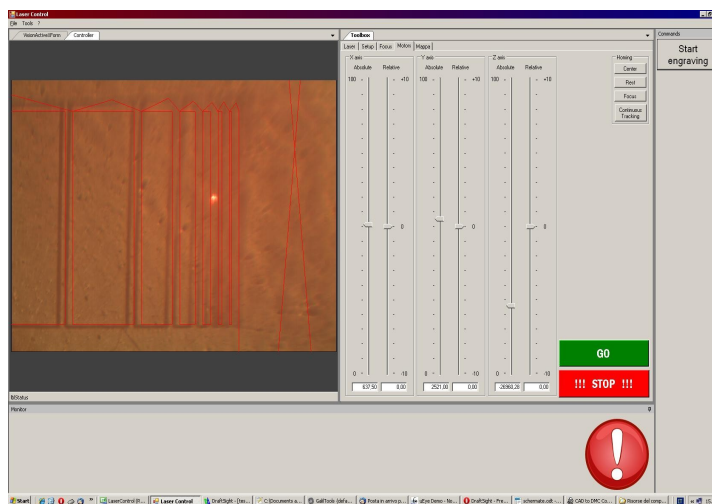
Scriba Nanotecnologie S.r.l. Via P. Gobetti 52/3, 40129 Bologna (Italy)
Tel.: +39 051 4159502 - Fax: +39-051-6311250
info@scriba-nanotec.com; www.scriba-nanotec.com



working area

Key features at a glance

- Wide variety of materials, shape, size of substrates;
- Precise definition of laser beam paths;
- Modular configuration can be tailored to the customer's needs;
- Precision laser machining and positioning ensured by linear motors and coaxial camera;
- Alignment for multiple fabrication steps is straightforward.



Monitor system

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Technical Specifications

Parameter	Nominal Value	Unit
Operating Voltage	220 +/- 10%	V
Current consumption	< 3	A
Dimensions (Width/Depth/Height)	80 x 80 x 155	cm
Minimum incremental motion	0,25	μm
Unidirectional repeatability	0,5	μm
Backlash	0,5	μm
Length scap along X and Y axes	90	mm
Length scap along Z axis	50	mm

Pulsed Fiber Laser Specifications

Parameter	Nominal Value	Unit
Center wavelength	1064, with active stabilization	nm
Pulse width range	10 - 200	ns
Pulse repetition frequency range	Single shot to 500	kHz
Maximum pulse energy	> 0.5	mJ
Maximum peak power	12	kW
Peak power stability (RMS)	< 2	%
Rated average power	>10	W
Output polarization	Random	-
High power output isolator	Included	-
Beam propagation factor (M^2)	Typ. ≤ 1.2	-
Electrical requirements	3.3/15 VDC (<125 W)	-
	Fan module: 12 VDC, 1 A	
Operating temperature range	0 to 40	C
Storage temperature range	-10 to 60	C

Experimental results

