

THE HIGH PRODUCTIVITY - CLASS 1 LASER MARKING AND ENGRAVING WORKSTATION FOR METALS AND THERMOPLASTIC MATERIALS







multi-position rotary table

- SCRIBA is a complete workstation ideal solution for high production laser marking, flexible and easily adaptable to a large variety of products.
- The **SCRIBA** workstation is equipped with an automatic cover and multi position (2 or 6) motorized rotary table controlled via SW. The motorized Z axis, laser head support, has a 450 mm vertical stroke that provides a large working area capable of handling items up to 210x210x300 mm.
- Another outstanding feature of the SCRIBA workstation is the addition of a dynamic beam expander, this enables the laser spot to be driven dynamically adjusting the focus of the laser via SW. Dynamic beam expander allows high quality engraving and marking even on items with different

surface heights (except Scriba Fiber).

- The SCRIBA workstation is the ideal solution for marking and engraving steel and metals, thermoplastics and polycarbonates, precious metals, PCB, metal coatings and electronic components in general. Application fields include pharmaceutical, electronic, automotive, mechanical industry and any application where high production off line marking is required.
- The SCRIBA workstation provides the right solution for both the small craft companies up to larger industry/manufacturing companies.
- **SCRIBA** is a Class 1 product and complies with the strict laser safety standards.







Labeling



Metal engraving



Electrical components



Customization



Automotive - Night&day

Laser technical features	SCRIBA Fiber	SCRIBA Laser <sup>3</sup>	SCRIBA Nd:YAG DPSS	SCRIBA UV
Wavelength (nm)	1064			355
Max power ( typical) [W]	30 – 50	12- (20)	30 - (80)	1.5
Pulse rep. frequency [kHz]	0-200 0-10		00	30
Peak power (max.) [kW]	10	≈140 - (200)	≈220 – (360)	≈1.7
Pulse energy (max.) [mJ]	1	0.8 – (1.6)	≈5 – (15)	≈0.2
Pulse duration (max.) [ns]	80 - 120	6 – 35	30 - 250	30
Beam quality factor M <sup>2</sup>	< 1.5		≈1.1 - 4	< 1.2
Spot diameter [µm]	25-90	25-90	20-165	15
Cooling	Air		Coolant	
Work area [mm]	F-Theta 100 = 60 x 60 F-T F-Theta 163 = 110 x 110 F-Theta 254 = 180 x 180			F-Theta 160 = 80 x 80
Dynamic focus distance shift [mm]	Not available	F-Theta 100 = 15 F-Theta 163 = 40 F-Theta 254 = 60		F-Theta 160 = 60
Electrical input	1/N/PE AC 230 V +/-10% 50-60 Hz 3.5 kW max - 16 A			
Weight [kg]	350			

## Available Features producing maximum flexibility:

- Sturdy and rigid steel structure
- Opening/closing cover with software controlled heights
- Rotary table with 2 or 6 (option) positions Ø 730 mm
- Electronic Z axis 450 mm vertical stroke
- Norm compliant Safety barriers with automatic start for a safe high productivity (option)
- Integrated autofocus device enabling different surface heights to be marked for an optimized positioning and marking times (except Scriba Fiber)
- AMS "Automatic Mode Selector" technology enables the maximum flexible use (only Scriba Nd:YAG)
- Up to 15 mJ pulse Energy and peak power 360 kW (80 W Nd:YAG)
  - Red diode pointer for projection of the marking path
  - Fume extraction pre-arrangement (blower not included)
- PC housing pre-arrangement (PC not included)





The system is CE certified.

The features and the specifications of the system may change without notice.



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