

Marking Laser

- * *The High-Tech tool of the Schilling family.*
- * *Flexible, touchless, professional and easy marking with light.*
- * *Highly versatile marking of metals, plastics and other materials*
- * *Easy graphic user interface, programming of 3-axes*
- * *Little dimensions, lightweight and space-saving, pump module separated from resonator, therefore unlimited opportunities for integration.*
- * *High efficiency, fast, reliable, perfect results.*
- * *Meets extremely rigorous quality requirements.*
- * *Software "Smartist" will not leave any wishes open.*
- * *Multilingual programme*



A class better!

Technical Specifications:

LASER MODEL	Megalight V80			
Laser Medium	Nd:YVO ₄ (Vanadate)			
Wavelength	1064 nm			
Nominal power	20W ±5% (@ C.W. multimode)			
Beam quality	M ² <2			
Peak power	80kW			
Repetition rate range	20-200kHz			
Pump system	Diode Laser			
Warranty	2 years			
Aiming beam	Red Laser Diode			
Smarthead (option)	Mechanical shutter + power meter for monitoring the whole optical parts of the resonator			
Marking head	Objective different focal lengths			
Objective F-theta	100	160	254	other
Working distance D	93±2mm	170±4mm	320±5mm	focal lengths
Marking area	60x60mm	120x120mm	180x180mm	upon
Min. Laser spot Ø		135 µm		request
Typ. marking speed	0.7 m/s			
Output voltage power supply	DC 24V + 28V ± 5%			
Power consumption	650W			
Communications	RS232, RS485 (standard), Ethernet (optional)			
Heat exchanger	Air cooled (integrated)			
	Overall Dimensions (DxWxH;mm)			
Rack 19"	500x437x87			
Power supply	260x130x46			
Resonator	454x120x114 (without Smarthead) 509x120x114 (Smarthead incl.)			
Marking head	117x110x120			
	Approx. Weight			
Rack 19"	12 kg (26 lb)			
Resonator	10 kg (22 lb) Smarthead incl.			
Marking head	3.8 kg (8.3 lb)			
	Protection Class			
Rack 19"	IP 20			
Resonator	IP 54			
Marking head	IP 54			
	Environmental			
Operating temperature	Min. 10°C (50°F) / Max. 35°C (95°F)			
Humidity	< 90 % without condensation			
Operating altitude	< 2000m (6,660 feet)			
Suspended matter	> 3 mg/m ³			
Vibrations	No vibrations permitted			
Max. acceleration	0.5 G			
Noise	< 70 dB			
Storage temperature Non condensing	Min. -5°C (23°F) / Max. +55°C (131°F)			
Conformance to EC machinery directives	2004/108/EEC "Electromagnetic Compatibility" 2006/95/EEC "Low Voltage"			
Conformance to EC Standards	EN 61000-6-4 Radiation standard EN 61000-6-2 Immunity standard EN 60204-1 Safety of machinery EN 60825-1 Safety of laser products			
Laser Class	Working Laser @ 1064nm: Class IV Pumping Laser @ 808nm: Class IV Aiming Beam @ 635nm: Class 2M; 3mW			
Laser Safety Cabinet Class I	Dimensions WxDxH: 638x925x871 mm Part Size max. WxDxH: 475x255x285 mm			
Applications	Best results on steel, titanium, aluminium (bare, anodized or coated) as well as on plastics such as ABS, PP, PES, PET, PVC and many others.			
NOTE:	Specifications subject to change without notice			