

Mega-Light V80

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 4-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 "Lighter" will not leave any wishes open.*
- * *Multilingual programme.*

A class better!



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Technical Specifications:

LASER MODEL	Mega-Light V80			
Laser source	Nd:YVO ₄ (Vanadate)			
Wavelength	1064 nm			
Average output power (typical)	20W ±5% @CW			
Beam quality	M ² <2			
Repetition rate range	20-200kHz			
Pump system	Diode Laser			
Warranty	24 months for a new laser system.			
Aiming beam	Red Diode Laser to display the size and position of marking job			
Marking head	Objective different focal lengths (mm)			
Objective F-theta	100L	160L (standard)	254L	330L
Working distance	97±2	175±3	297±5	387±5
Marking area	60x60*	120x120*	180x180*	220x220*
Power supply	DC 24V-28V ±5%			
Power consumption	typical 450W, max. 600W			
Interfaces	USB 2.0, PLC, up to 4 mechanical axis driving capabilities (stepper motors), RS232, Ethernet			
Cooling system	Air cooled (integrated)			
	Overall Dimensions WxDxH (mm)			
Rack 19"	437x499x87			
Power supply	130x260x46			
Resonator	125,5x408x106			
Marking head	110x122x158 (incl. Standard objective)			
Laser safety cabinet	638x992x874 (other dimensions on request)			
Max. part size	465x262x335 (f=160mm)			
	Approx. Weight (kg)			
Rack 19"	12 (26.5 lbs)			
Resonator	4.7 (10.4 lbs)			
Marking head	3.8 (8.4 lbs)			
System compl. with Laser safety cabinet	105 (231 lbs)			
	Protection Class			
Rack 19"	IP 20			
Resonator	IP 64			
Marking head	IP 54			
Laser safety cabinet	Laser safety class 1			
	Environmental			
Operating temperature	Min. 10°C (50°F) / Max. 35°C (95°F)			
Humidity	< 70 % 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	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			
Options	Rotary axis, large laser safety cabinet, Exhauster incl. start remote and controller, Automatic door			
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 are subject to change without notice			
	*Effective marking area subjected to approval, depending on the application!			

