

Megalight 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 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!



Megalight V80

Technical Specifications:

LASER MODEL	Megalight V80			
Laser Medium	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	Laser system 2 years/Diode module 3 years			
Aiming beam	Red Diode Laser to display the size and position of marking job			
Marking head	Miniscan 8 (Objective different focal lengths)			
Objective F-theta mm	100L	160L (standard)	254L	330L
Working distance mm	97±2	175±3	297±5	387±5
Marking area (mm x mm)	60x60	120x120	180x180	220x220*
Min. Laser spot Ø		135 µm		
Typ. marking speed	0.7 m/s			
Output voltage power supply	DC 24V-28V ±5%			
Power consumption	typical 450W, max. 600W			
Communications	RS232, I/O signal, Ethernet for monitoring (opt.)			
Cooling system	Air cooled (integrated)			
	Overall Dimensions DxWxH (mm)			
Rack 19"	499x437x87			
Power supply	260x130x46			
Resonator	454x120x114			
Marking head	141x120x164 (incl. Standard objective)			
Laser safety cabinet	925x638x871 (other dimensions on request)			
Max. part size	255x475x285			
	Approx. Weight (kg)			
Rack 19"	12 (26.5 lbs)			
Resonator	10 (22 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 54			
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	< 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	Min. 0°C (32°F) / Max. 50°C (122°F) Non condensing			
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			
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!			

