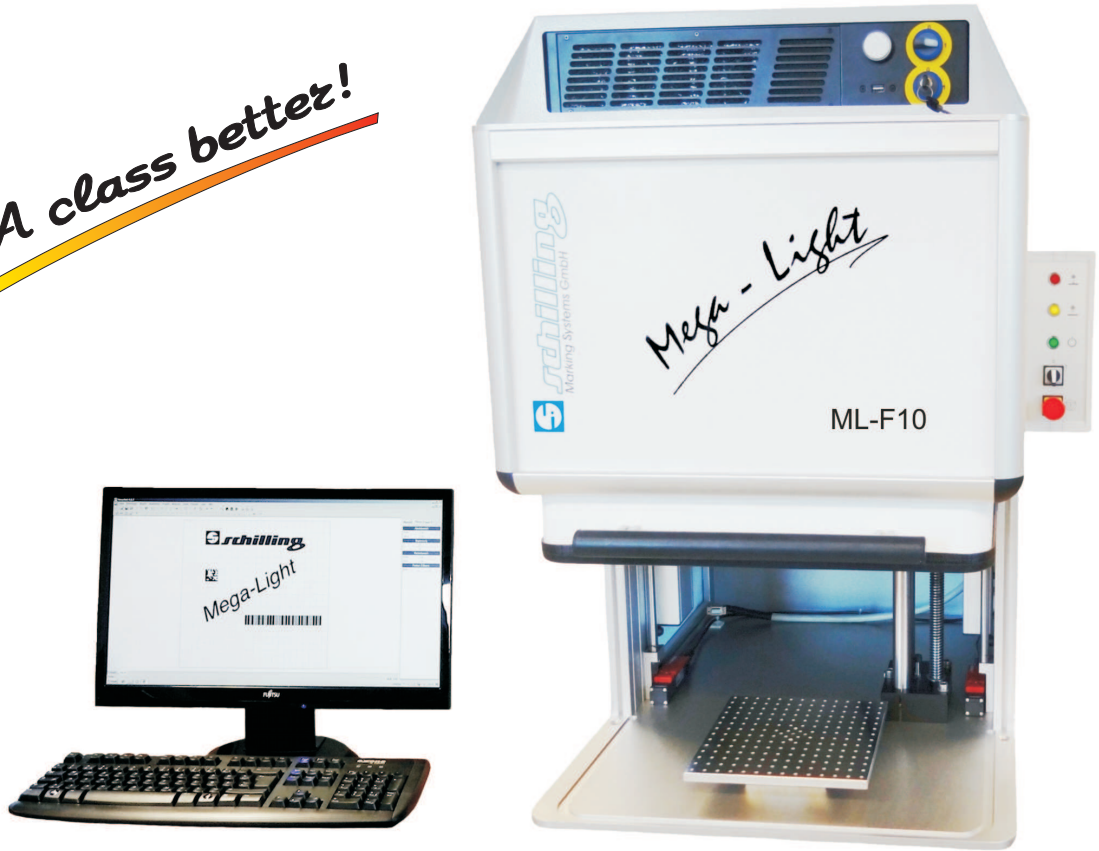
Mega-Light F10

schilling
Marking Systems GmbH

Marking Laser

* *The Fiber Laser high-Tech tool with embedded PC of the Schilling family.*
* *Flexible, touchless, professional and easy marking with light.*
* *Highly versatile and excellent contrast on metal surfaces. Optimum for plastics, electronic PCB and other materials.*
* *Easy graphic user interface, programming of 4-axes*
* *Ultra compact dimensions of marking head, therefore unlimited opportunities for integration, lightweight, space-saving and lowest power consumption.*
* *High efficiency, fast, reliable, perfect results.*
* *Meets extremely rigorous quality requirements.*
* *Software "Lighter" will not leave any wishes open.*
* *Multilingual programme*

A class better!



Schilling Marking Systems GmbH
In Grubenaecker 1 DE - 78532 Tuttlingen
+49 (0)7461 9472-0
+49 (0)7461 9472-20
www.schilling-marking.de
info@schilling-marking.de

Mega-Light F10

schilling Marking Systems GmbH

Technical Specifications:

LASER MODEL	Mega-Light F10		
Laser source	Pulsed Fiber Laser		
Wavelength	1060 - 1080 nm		
Nominal power	10W (real power on work piece surface)		
Pulse energy (max)	0,5mJ		
Peak power (max)	5 kW		
Repetition rate range	20-100kHz		
Pulse width	100 ns		
Warranty	24 months for a new laser system.		
Aiming beams	Red Diode Laser to display the size and position of marking job, Second red pointer for focussing		
Head cable length	3 m (standard), 5 m & 7 m (optional)		
Marking head	Objective different focal lengths (mm)		
Objective F-theta	160S	254S (standard)	other focal lengths are available upon request
Working distance	181±2	290±2	
Marking area	100x100*	140x140*	
Power supply	100-240 VAC 50/60 Hz		
Power consumption	typical 250W, max. 300W		
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" with embedded PC	430x370x106		
Marking head	112x298x90		
Laser safety cabinet	638x787x874 (other dimensions on request)		
Max. part size	465x262x254 (f=254mm)		
	approx. Weight (kg)		
Rack 19"	16 (35.3 lbs)		
Marking head	2 (4.4 lbs)		
	Protection Class		
Rack 19"	IP 20		
Marking head	IP 54		
Laser safety cabinet	Laser safety class 1		
	Environmental		
Operating temperature	+5°C to 42°C (41 to 108°F) @ 100% power		
Humidity	< 80 % 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. -20°C (-4°F) / Max. +70°C (158°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	The ultra-compact marking head with smallest dimensions allows ease installations in production lines or inside machines where limited space is a key issue. Excellent and fine marking results. Shortest marking times. Excellent contrast on metal surfaces such as vehicle steel parts, surgical instruments and cast iron parts. Optimum for plastics, electronic PCB and other components.		
NOTE:	**Specifications are subject to change without notice**		
*Effective marking area subjected to approval, depending on the application!			

Schilling Marking Systems GmbH
In Grubenaecker 1 DE - 78532 Tuttlingen
+49 (0)7461 9472-0
+49 (0)7461 9472-20
www.schilling-marking.de
info@schilling-marking.de