

SAGITTA

Sagitta 60W and HP (80W) are the most powerful evolution of the end-pumped DPSSL sources for marking and micromachining applications. Sagitta is often applied on precision marking components, surgical instruments, tools and ball bearings. Sagitta is able to engrave metals with a very high material removal capacity. The high power density of laser beam combined with the high speed of the scanning head, allows fast, deep engraving on metals.

FEATURES & BENEFITS

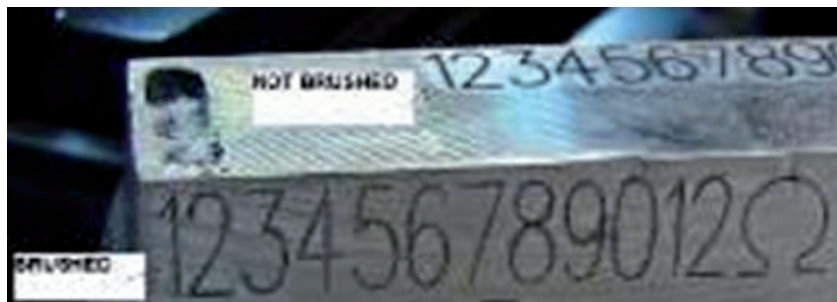
- High reliability and availability thanks to the simple end-pumped configuration
- Optimized beam quality for marking applications
- Long term stability makes it ideal also for the integration into automatic production line
- High power density laser beam and high speed scanning head for fast and deep engraving on metals
- Ideal for long lasting identification marking on components such as surgical instruments, tools, ball bearings, etc.



LASER MARKING

APPLICATIONS

This product series has been developed to satisfy to requirements of the following reference applications:
 - Deep metal engraving in heavy automotive and military industries



SAGITTA

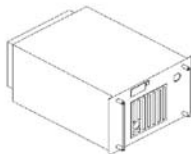
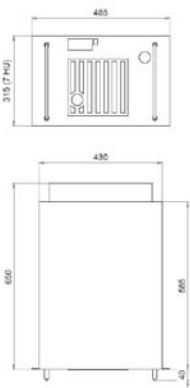
	SAGITTA 60	SAGITTA HP
Wavelength	1064nm	1064nm
Average Output Power (typical)	60W±5%@CW	80W±5%@CW
Repetition Rate Range	5-200kHz	5-200kHz
Pulse Width	35-45ns@10kHz	35-45ns@10kHz
Max Pulse Energy * (typical)	5mJ@10kHz	6.5mJ@10kHz
Aiming Beam	Class 2M Red Diode Laser; λ=635nm +/-5nm; 3mW	
Temperature Range	Operative 10°C to 35°C Storing 0 to 50 °C	
Cooling System	Water cooled (closed loop external chiller)	
Power Supply	AC 90-240 V / 50-60 Hz	
Laser Power Consumption	Maximum 1500 W	
Resonator Dimension & Weight	mm 504 x 118 x 115 mm	7 kg
Rack Dimension & Weight	mm 506,8 x 177 x 445,36	18 kg
EEC Rules compliance	2004/108/EEC: "Electromagnetic Compatibility" 2006/95/EEC: "Low Voltage"	
EU Standard compliance	EN 61000-6.4, EN 61000-6.2, EN60204-1, EN60825-1	
Standard Marking version supplied	BEX 7.5X ; Miniscan10_1064; F-Theta 160L	

F-Theta 1064nm	100L	160L	254L
Working Distance (mm)	97	177	297
Working Area (mm x mm)	60 x 60	110 x 110	180 x 180

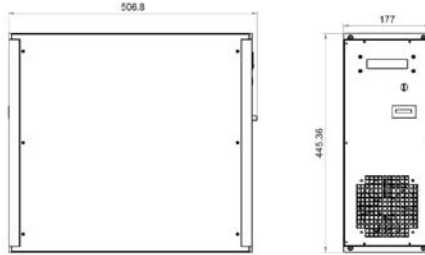


L (large) > Ø = 90mm

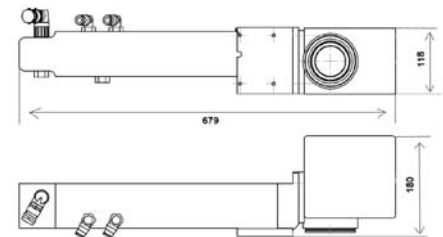
- Other focal lengths are available upon request



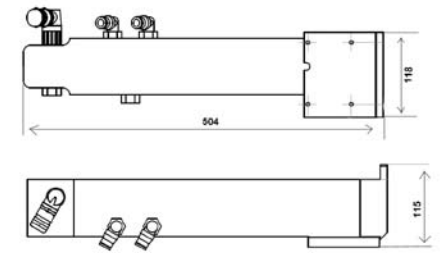
CHILLER



CONTROL UNIT (RACK)



MARKER RESONATOR



OEM RESONATOR

DATALOGIC AUTOMATION

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The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.

All laser sources described in this product guide are Class 4 laser sources. Laser interaction with organic or inorganic material can cause TOXIC FUMES/PARTICLES. The OEM laser components described in this product guide is for sale solely to qualified manufacturers, who shall provide interlocks, indicators and other appropriate safety features in full compliance with applicable national and local regulations.