

Laserator™ OEM Rack Mount Integrable Fiber Laser Marking & Engraving Engines



Made in Turkey



ISO9001:2015

5W, 10W, 20W, 30W, 50W, 70W, 100W Q-Switched & CW Mode Engines

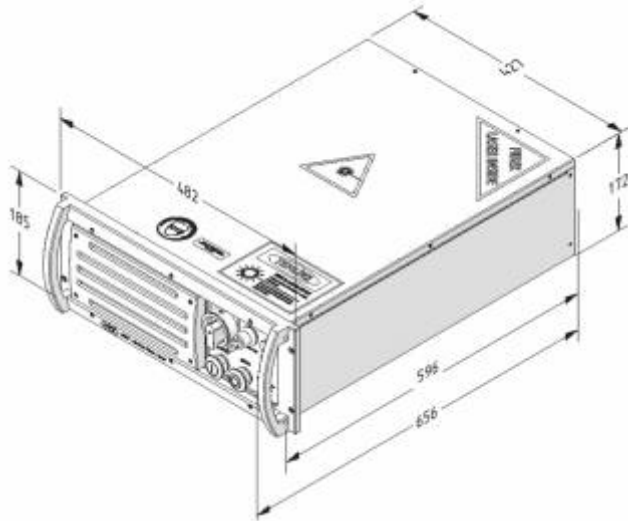
www.laserator.com

Laser Machine Design Team

LASERATOR OEM FIBER LASER MARKING & ENGRAVING ENGINES DESIGNED ACCORDING TO THE CLASS-IV LASER SAFETY STANDARDS

- MANY LANGUAGE OPTIONS INCLUDING TURKISH, ENGLISH, GERMAN, FRENCH, RUSSIAN LANGUAGES
- FRONT PANEL AND VENTILATION LID DESIGNED AND MACHINED OUT OF ALUMINIUM
- DETACHABLE FRONT PANEL HANDLES
- INTEGRABLE 19" RACK MOUNT CONSTRUCTION
- ALL-METAL SIGNAL AND POWER CONNECTORS & FERRITE-FILTERED SIGNAL CABLES
- 1000 CHARACTER/SEC LASERATOR SCANNER HEAD W/ A STANDARD 163MM f-THETA LENS GIVING A MARKING AREA OF 120x120MM AND CABLING SET
- ON-THE-FLY MARKING FOR MOVING WORK PIECES
- LASERATOR CONTROL CARD & SOFTWARE, DRIVING 2 EXTERNAL AXES
- ADDITIONAL 2X120 AND 1X80MM AIR COOLING FANS
- LADDER-LOGIC AUTOMATION PROGRAMMING SUPPORT OVER 2X8 I/O PORT
- 24V SOURCING OUTPUT CONNECTOR FOR EXTERNAL AUTOMATION CIRCUITS
- WARNING LED LIGHTS
- STANDBY CAPABILITY BY BOTH FRONT PANNEL BUTTONS AND SOFTWARE
- 5-SEC LASER SECURITY KEY (AMERICAN LASER SECURITY STANDARDS)
- SECURITY EMISSION BUTTON
- CE CERTIFICATE- 2014/30/AB EMC, 2006/42/AT LVD COMPATIBILITY STANDARDS
- EN 60204-1:2006/AC:2011 & EN 61000-6-1:2007 & EN 61000-6-3:2007/A1:2011/AC:2012 COMPATIBILITY STANDARDS





Specifications of *smt-series* Laserator OEM Fiber Laser Engines

Powers Available	5W	10W	20W	30W	50W	70W	100W
Laser Mode of Operation	Q-switched	Q-switched	Q-switched	Q-switched	Q-switched	Q-switched	Q-switched
Central Wavelength (Pout=Pnom)	~1064nm	~1064nm	~1064nm	~1064nm	~1064nm	~1087nm	~1064nm
Output Bandwidth (Pout=Pnom)	<5nm	<5nm	<5nm	<5nm	<5nm	<5nm	<5nm
Repetition Frequency	5-100kHz	10-100kHz	20-100kHz	25-100kHz	50-120kHz	60-110kHz	100-200kHz
Pulse Energy	0.5mj@5kHz	0.5mj@5kHz	1.0mj@20kHz	1.3mj@25kHz	1.3mj@50kHz	1.2mj@60kHz	1mj@100kHz
Pulse Width	100±20ns	100±20ns	100±20ns	100±20ns	100±20ns	240±20ns	100±20ns
Beam Quality (M ²)	<1.2	<1.4	<1.5	<1.6	<1.6	<1.8	<1.5
Polarization	Random	Random	Random	Random	Random	Random	Random
Ambient Temperature For Operation Operating Humidity	0-40C %5-%85	0-40C %5-%85	0-40C %5-%85	0-40C %5-%85	0-40C %5-%85	0-40C %5-%85	0-40C %5-%85
Protection Against High Reflection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable Power Range	%10-100	%10-100	%10-100	%10-100	%10-100	%10-100	%10-100
Power Stability	<%5	<%5	<%5	<%5	<%5	<%5	<%5
Beam Diameter	7±1mm	7±1mm	7±1mm	7±1mm	7±1mm	7±1mm	7±1mm
Fiber Cable Length	2,5m	2,5m	2,5m	2,5m	2,5m	2,5m	2,5m
Operating Voltage	220V	220V	220V	220V	220V	220V	220V
Output Beam Divergence	Max 1.5mm	Max 1.5mm	Max 1.5mm	Max 1.5mm	Max 1.5mm	Max 1.5mm	Max 1.5mm
Power Consumption	150W	170W	200W	300W	350W	450W	550W
Warm-Up Time For Operation Time For Complete Stability	1 Min. 10 Min.	1 Min. 10 Min.	1 Min. 10 Min.	1 Min. 10 Min.	1 Min. 10 Min.	1 Min. 10 Min.	1 Min. 10 Min.
Laser Engine Dimentions (Excl. Front Panel)	172X427X596 MM	172X427X596 MM	172X427X596 MM	172X427X596 MM	172X427X596 MM	172X427X596 MM	172X427X596 MM
Cooling Method	Air	Air	Air	Air	Air	Air	Air