

# Laser Cutters, Markers & Engravers



## FiberLUX NANO

The 'mini' model by Elettrolaser was developed by incorporating the research and innovations of the FiberLUX series, offering a high quality laser at an accessible price. FiberLUX NANO comes with a fully accessible working chamber thanks to the absence of hatches, and an output marking power of 20W and 30W.

Specifications	FiberLUX Nano 20	FiberLUX Nano 30
Output power	20 W	30 W
Wavelength	1064 nm	
M2	<1.8	
Power supply	230 V, 50-60Hz (optional 110 V)	
Absorbed power	250 W	350 W
Working space dimensions	250 x 250 x 310 mm	
Weight	35 kg	35 kg
Focal 100 : marking area/spot	60 x 60 / 16 $\mu$ m	
Focal 160 : marking area/spot	100 x 100 / 26 $\mu$ m	
Speed of galvo head	5000 mm/s	
Max. pulse energy	up to 1 mJ	
Max. frequency	60 kHz	
Cooling system	air cooled	
Pulse duration	100 ns at 20 kHz	
Laser class	IV	



## FiberLUX EL & EL Lite

ELETTROLASER FiberLUX EL is a high performant product on the market, at a very competitive price; perfect solution both for the small/medium laboratory and for who enter for the first time in the marking process world. EL line offers the right compromise between the lower-end FiberLUX NANO line and the higher-end FibeLux PRO.

Specifications	FiberLUX EL 20	FiberLUX EL 30	FiberLUX EL 50
Output power	20 W	30 W	50 W
Wavelength	1064 nm		
M2	<1.8		
Power supply	230 V, 50-60Hz (optional 110 V)		
Absorbed power	250 W	350 W	350 W
Working space dimensions	250 x 250 x 350 mm		
Weight	55 kg	55 kg	55 kg
Focal 100 : marking area/spot	60 x 60 / 16 $\mu$ m		
Focal 160 : marking area/spot	100 x 100 / 26 $\mu$ m		
Speed of galvo head	5000 mm/s	5000 mm/s	7000 mm/s
Max. pulse energy	up to 1 mJ		
Max. frequency	60 kHz	60 kHz	100 kHz
Cooling system	air cooled		
Pulse duration	100 ns at 20 kHz	100 ns at 20 kHz	120 ns at 20 kHz
Laser class	IV		
Light version available	Yes		

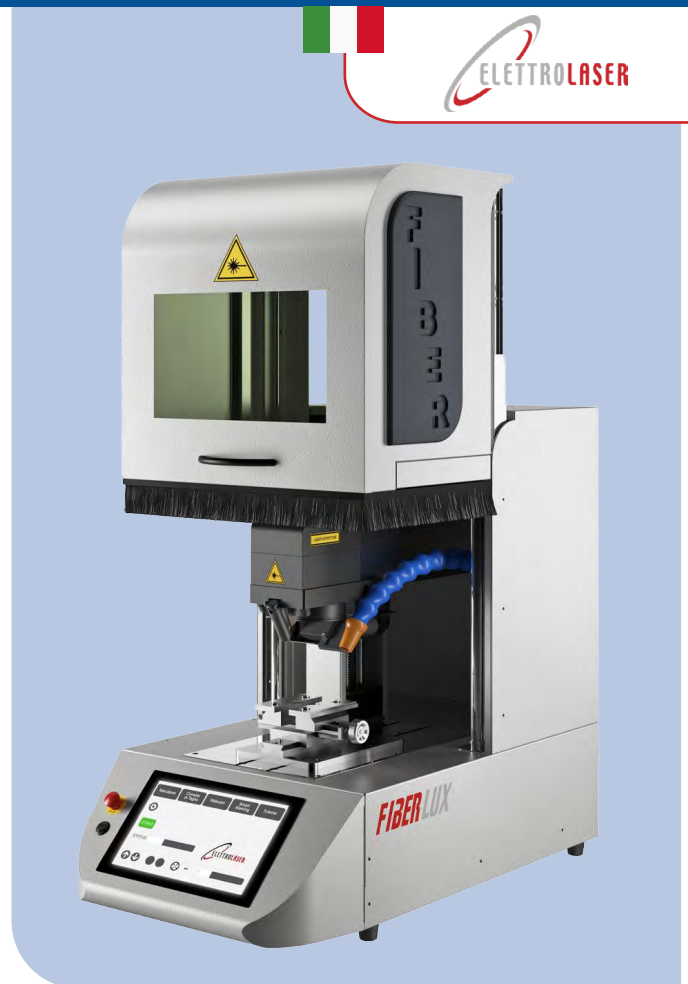


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<https://www.harshad.com/elettrolaser>

# FiberLUX PRO

It can be used to mark objects of any metal, engrave photographs, logos, trademarks. Equipped with a motor-driven Z-axis with movement resolution of 0.01 mm, and an innovative, user-friendly focus system with overlapping pointers, it can also be equipped with an internal videocam inside the laser chamber, for optimization of processing and possible remote assistance.

Every machine can be equipped with a range of options such as: high precision rotating axis system, electro-pneumatic plate driver (feeder) with ELETTROLASER software, exhaust fan, clamp for blocking pieces, movable in the X and Y axes, and a system of pneumatic hatch opening. The built-in PC with touch-screen of the new PRO version, supply to the machine the USB and Ethernet ports. Fiberlux becomes a machine able to communicate and make the operator independent, able to modify files while the machine executing on its job.



Specifications	FiberLUX PRO 20	FiberLUX PRO 30	FiberLUX PRO 50	FiberLUX PRO 70	FiberLUX PRO 100	FiberLUX PRO 200
Output power	20 W	30 W	50 W	70 W	100 W	200 W
Wavelength	1064 nm					
M2	<1.6					
Power supply	230 V, 50-60Hz (optional 110 V)					
Absorbed power	300 W	300 W	300 W	450 W	450 W	900 W
Working space dimensions	250 x 250 x 350 mm					
Weight	55 kg	55 kg	55 kg	60 kg	60 kg	130 kg
Focal 100:marking area/spot	60 x 60 / 16 $\mu$ m					
Focal 160:marking area/spot	100 x 100 / 26 $\mu$ m					
Focal 210:marking area/spot	160 x 160 mm / 34 $\mu$ m					
Speed of galvo head	Up to 7000 mm/s					
Max. pulse energy	up to 1.5 mJ					
Max. frequency	1000 kHz					400 kHz
Cooling system	air cooled					
Pulse duration	10 to 200 ns					30 to 100 ns
Laser class	IV/I (no for lite version)					

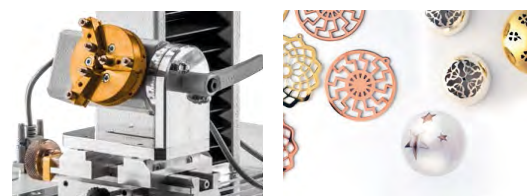


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# FiberLUX 3D

It can be used to mark any metal object, engrave photos, logos, trademarks and texts even with surface unevenness approximately 35 mm. The new 3D, thanks to the complete restyling, can be provided standalone (with its pedestal support), or even in the traditional desktop version, if it is necessary to protect the spaces.

Specifications	FiberLUX 3D 20	FiberLUX 3D 30	FiberLUX 3D 50	FiberLUX 3D 70	FiberLUX 3D 100
Output power	20 W	30 W	50 W	70 W	100 W
Wavelength	1064 nm				
M2	<1.6				
Power supply	230 V, 50-60Hz (optional 110 V)				
Absorbed power	500 W	500 W	500 W	600 W	650 W
Working space	280 x 380 x 350 mm				
Weight	55 kg	55 kg	55 kg	60 kg	60 kg
Focal 100: marking area/spot	60 x 60 / 11 µm				
Focal 160: marking area/spot	110 x 110 / 26 µm				
Speed of galvo head	6000 mm/s				
Max. pulse energy	up to 1.5 mJ				
Max. frequency	1000 kHz				
Cooling system	air cooled				
Pulse duration	10 to 200 ns				
Laser class	IV/I (no for lite version)				
Focus range in Z 100 mm focal lense	10 mm				
Focus range in Z 160 mm focal lense	30 mm				



## LCC (Laser Cutting Cabinet)

Applications achievable with LCC are the cut and the processing of: components of prototyping, jewellery (gold, silver, platinum, titanium, steel etc.), medical instruments, components automotive, aerospace and electronic, and much more.

Specifications	LCC 150 W	LCC 300 W
Output power	150 W	300 W
Motion controller	3 axis	
Power supply	230 V, 50-60Hz	
Laser head option	Cutting head	
Working area	150 x 150 mm	
Weight	182 / 210 kg	
Max processing speed/axis	15 mm/sec	
Oxygen ready	Components for one tank, regulator included	
Acceleration	Max 1g	
Repeat accuracy/axis	± 0.127 mm	
Linear drive travel X/Y/Z	X Axis max 150 mm / Y Axis 150 mm / Z Axis manual micrometer adjustment	
Cooling system	Air cooled	
Electrical/Manual door	483 x 483 mm	
Laser class/Machine class	IV/I	
XYZ table	Lead screw with anti backlash nut harden rails, guides and guide rollers	



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