

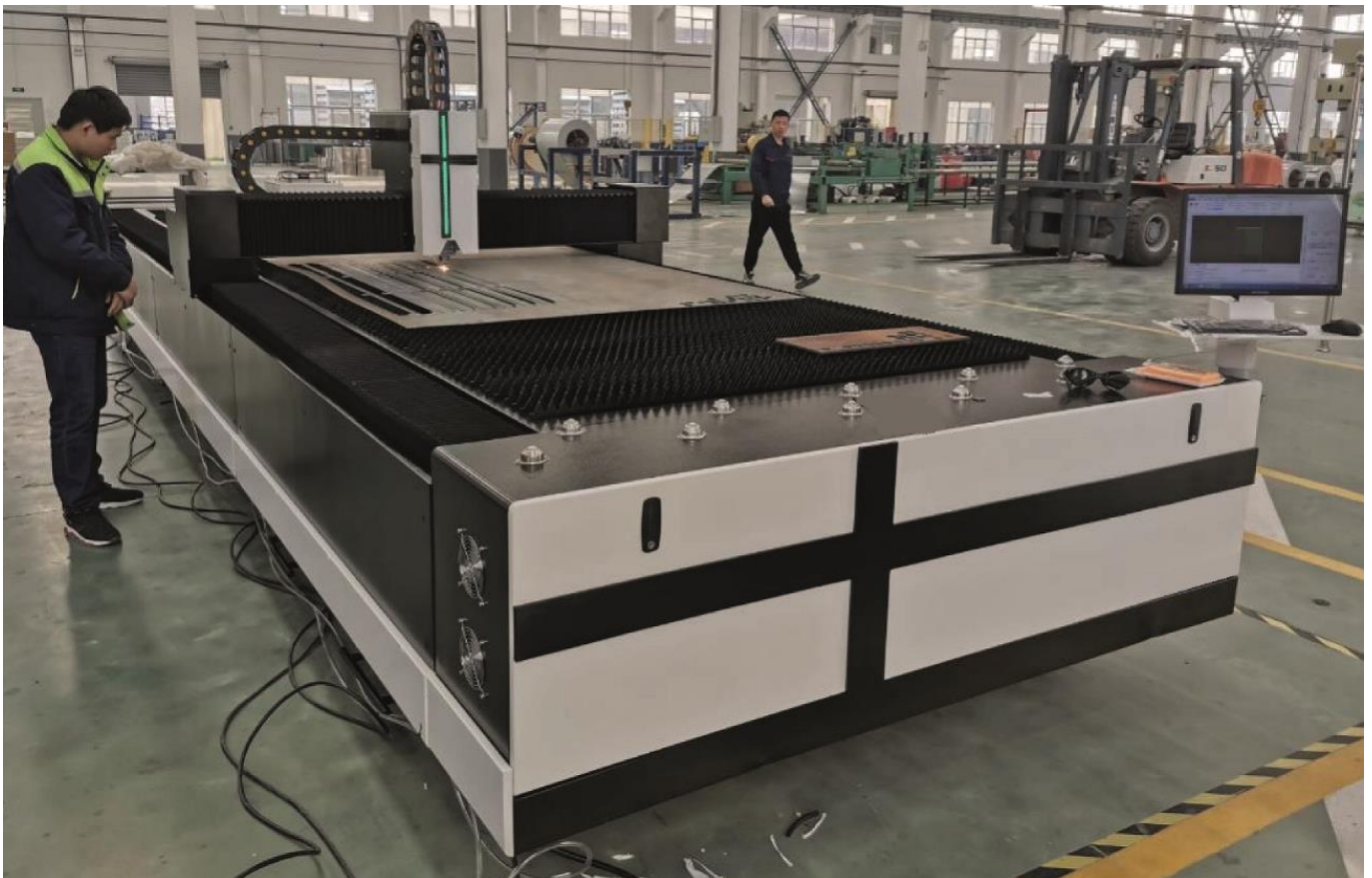
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Képgyűjtemény

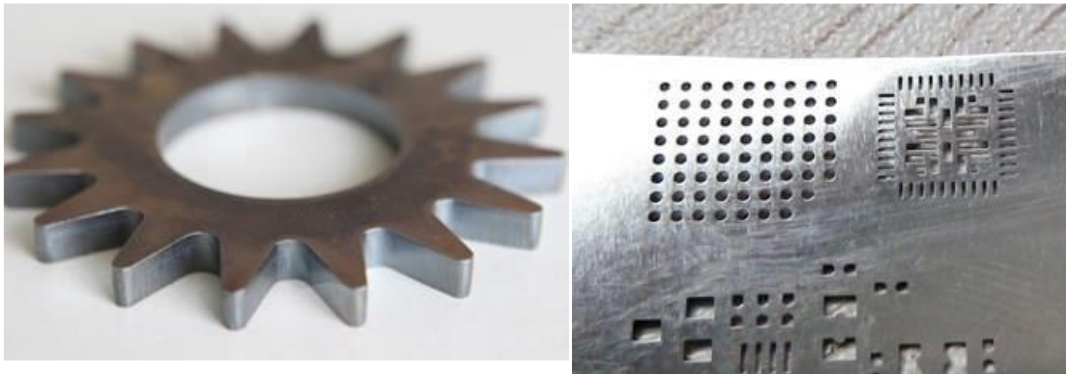
Fiber lézervágó berendezés

CAXTC_LM_1560_1.5kW_N_1.0 fiber lézervágó berendezés / Fiber cutting machine



• Lézer gép alkalmazások / Machine Application

Widely used in sheetmetal processing, aviation, aerospace, electronics, electrical appliances, automobile, food machinery, textile machinery, engineering machinery, precision parts, ships, metallurgy equipment, elevators, household appliances, craft gifts, tool processing, decoration, advertising, and other fields. Professional used to cut sheet metal like carbon/mildsteel, stainless steel, aluminum alloy, galvanized sheet, electrolytic plate, titanium alloy, aluminum zinc plate, etc.



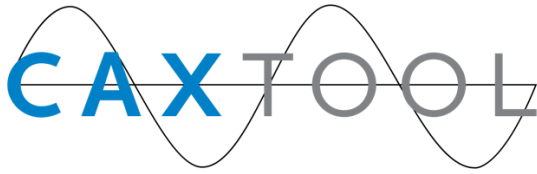
Lézerforrás / FIBER LASER RESONATOR NLight CFL-1500



nLIGHT® multimode rackmount fiber lasers deliver power outputs from 500 to 1500W with multiple fiber options and excellent beam quality for advanced cutting, welding and additive manufacturing. The small size of these lasers facilitates easy integration into machine tools. nLIGHT rackmount fiber lasers feature true hardware-based back reflection protection, easy onsite servicing and reliable operation in even the harshest manufacturing environments.

Features

- 500 to 1500W models provide power level options to support a range of applications.
- Hardware-based back reflection protection allows uninterrupted, failsafe processing of even the most reflective metals with no damage to the laser.



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- Easy onsite serviceability maximizes uptime and productivity.
- Durable design ensures continuous operation in manufacturing environments.
- Advanced electronics allow faster piercing and processing of fine features along with smaller affected heat zones.

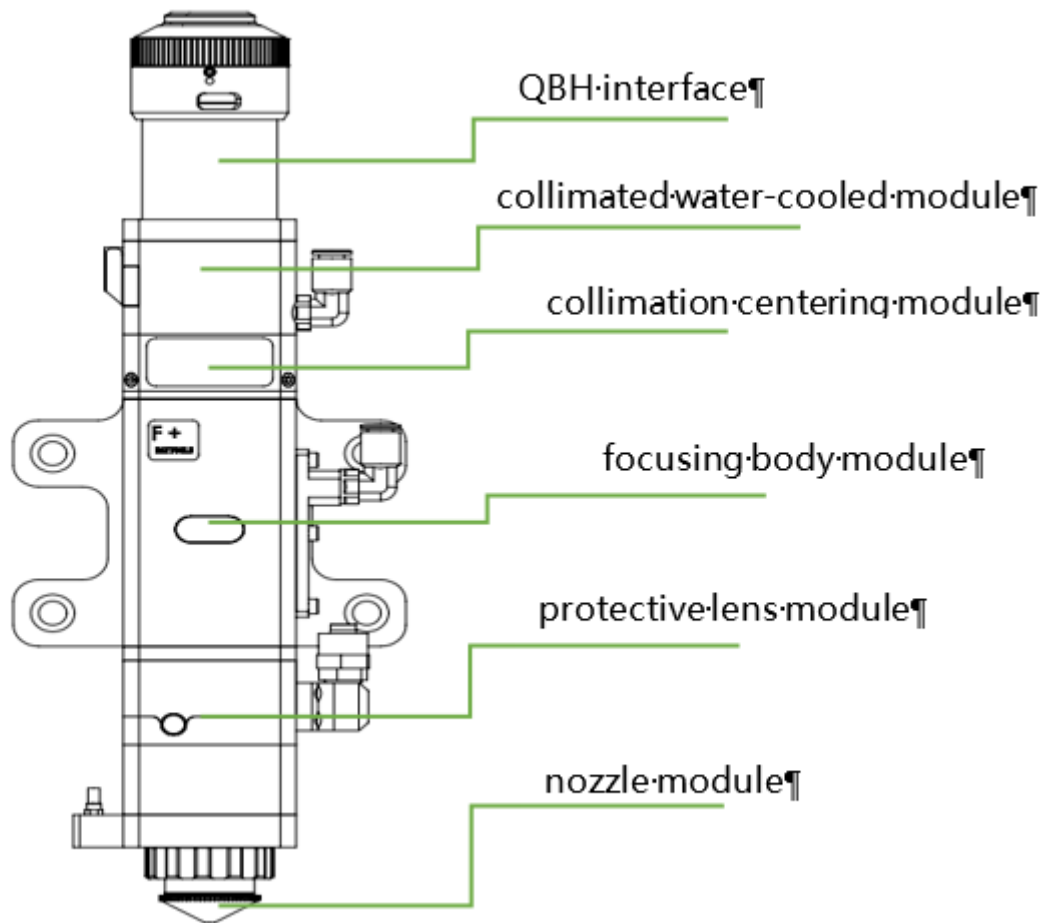
nLIGHT Multimode Rackmount Fiber Laser Specifications

Models	CFL-500	CFL-700	CFL-1000	CFL-1200	CFL-1500
Optical Specifications					
Mode of Operation	CW/Modulated				
Polarization	Random				
Maximum Average Power	500W	700W	1kW	1.2kW	1.5kW
Power Tunability	5 – 100%				
Power Variation, 8-Hour	≤ 1%				
Modulation Frequency	≤ 100kHz				
Rise and Fall Times	≤ 5μs				
Beam Quality	50μm fiber ≤ 2.0mm-mrad 100μm fiber ≤ 4.0mm-mrad 200μm fiber ≤ 11.0mm-mrad				
Wavelength	1070 ± 10nm				
Electrical Specifications					
Operating Voltage, Single-Phase	200 – 240VAC				
Operating Voltage Frequency	50/60Hz				
Control Interface	External hardware control, RD-232, Ethernet				
Mechanical Specifications					
Dimensions (W X D x H)	480 x 677 x 177mm				
Optical Fiber ¹	10, 20, 30m, QBH connector standard				
Cooling Method	Water				
Environmental Specifications					
Operating Temperature ¹	+10 to +40°C				
Storage Temperature	-10 to +60°C				
Relative Humidity	10 to 80%				

¹ Non-condensing or with use of CDA.

- **Lézer fej / Laser Cutting Head RayTools BM109**

The BM109 series is an automatic focusing fiber cutting head released by Swiss RAYTOOLS AG in 2017. The product is equipped with external servo motor and internal driver units, which can drive the focus lamp to change position automatically in the range of about 17mm by linear mechanism. Users can continuously focus through setting program to finish the rapid perforation of thick plates and the automatic cutting of plates of various thickness and materials. The product can be equipped with D28 composite lens group to integrate the beam, and equipped with QBH interface with fiber laser; optimized optical and water-cooled design allows the laser head to work under low and medium power steadily for a long time



- **Cooling System S&A CWFL-1500**

S&A brand CWFL-1500 water chiller is specially applied to cool the fiber laser and optic lenses at the same time, multiple use for saving cost, space and manual move, quite convenient for the user.

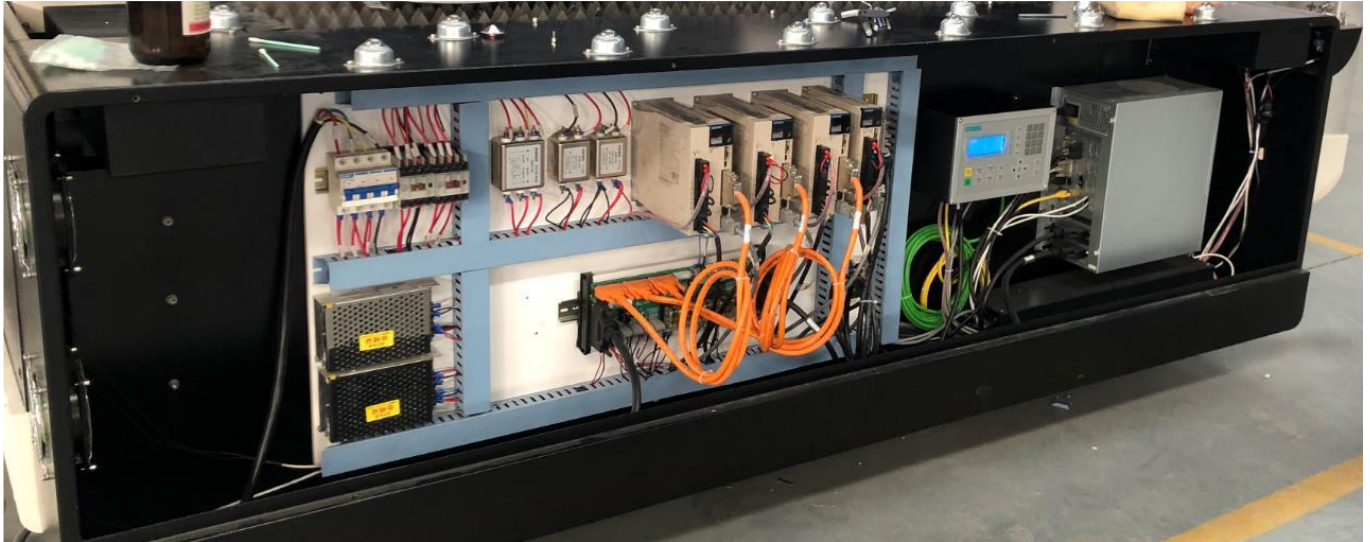
S&A industrial water chiller has 2 temperature control modes as constant temperature and intelligent temperature control. Under intelligent mode, the water temperature is adjusted according to ambient temperature. You do not need to worry about the water temperature adjustment of seasonal changes.



Industrial water chillers for fiber lasers specification

CWFL-1500	CWFL-1500AN	CWFL-1500BN
Voltage	AC 1P 220 V	AC 1P 220 V
Frequency	50 Hz	60 Hz
Current	3.4~13.7A	3.4~14A
Machine power	2.78 kW	2.76 kW
Electric assisted power	400W + 600W	
Precision	± 0.5°C	
Reducer	Capillary	
Pump power	0.75 kW	
Tank capacity	15L	
Inlet and outlet	Rp1/2"+Rp1/2"	
Lift	53 M	
Rated flow	2 L/min + > 15 L/min	
N.W.	72 Kgs	
G.W.	82 Kgs	
Dimension	70 X 47 X 89 cm (L X W X H)	
Package dimension	74 X 61 X 104 cm (L X W X H)	

- **CNC Control System FSCUT2000 and Software CypCut**



FSCUT2000 laser cutting control system and its CypCut software integrates file reading, design, output, and processing control. It's able to complete the entire process from design to processing. The software, installed in an industrial computer, provides a wealth of laser cutting processing parameters, flexible layout and cutting path editing capabilities.

CypCut Control system and software in English language, supporting files: DXF, PLT, AI, LXD, etc. Drawing in the software is ok. Software is with fly cutting mode for cutting same products to save time. The nesting function automatically arranges graphs to leave minimum spaces and save materials.

- **Fogaskerék hajtás / Transmission System**



Machine is with Taiwan YYC gear rack and PMI linear rail transmission, which ensures machine high speed movement, precision and stability as well.

- **Meghajtó motorok / Driving system: Schneider servo**





Schneider servo motors and drivers. Motor reducer is SHIMPO.

- **Olajzás / Auto Lubrication**



It automatically lubricates guide rails, which ensures the machine keep moving smoothly and with good precision.

- **Füst elszívás / Exhaust System**

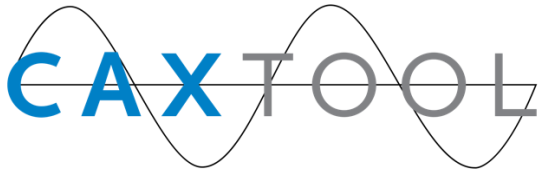


A 2.2Kw centrifugal exhaust fan strongly removes the fumes and dusts caused during cutting.

- **Segédgázok vezérlése / Gas Assist Valves (Solenoid Valve, SMC Proportional Valve)**



Gas assists cutting either in cutting speed, cutting thickness or cutting effect.



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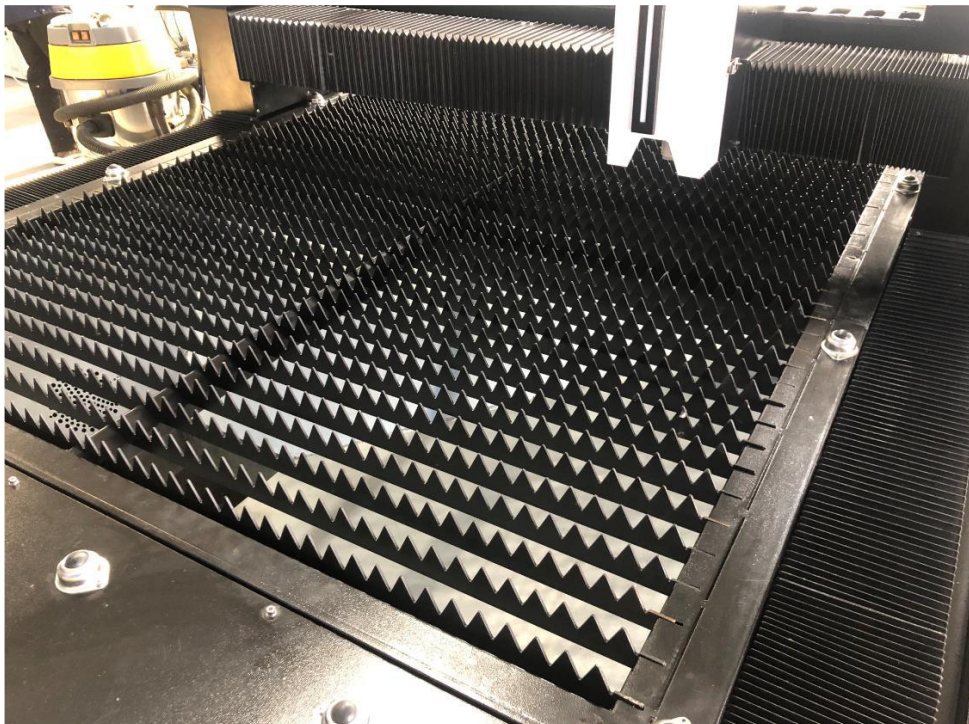
For example, oxygen helps to cut faster and thicker; nitrogen helps to get brighter cutting edge.

The solenoid valve controls the gas blowing. Gas blows only during cutting, which saves your gas cost. SMC proportional valve controls the gas pressure and brings good cutting all the time, for example, gas pressure is lowered when cutting corners.

- **Gépágy / Machine Body**



- **Gépasztal / Machine Table**



Saw-shape machine table holds metal sheet steady with little touch with metal sheet. The saws are thick and durable. Machine table size is 1500mm by 6000mm.

- **Lézervédelmi szemüveg / Safety goggles**



- **Vágási sebességek táblázata / MachineCutting Capacity**

Material	Thickness (mm)	Cutting Speed (m/min)	Output Laser Power (W)	Gas	Gas Pressure (bar)	Nozzle (mm)	Cutting Head Height (mm)
Carbon Steel	1	22	1500	Nitrogen or compressed air	10	1.5S	0.5
	3	3.6			Oxygen	0.6	1.0D
	6	1.4		0.6		1.5D	1
	8	1.2		0.6		1.5D	1
	10	1		0.6		2.0D	1
	12	0.8		0.6		2.5D	1
	14	0.65		0.6		3.0D	1
	16	0.5		0.6	3.0D	1	
Stainless Steel	1	25	1500	Nitrogen or compressed air	12	1.5S	0.5
	2	8			14	2.0S	0.5
	3	4.5			16	3.0S	0.5
	4.5	1.5			18	3.0S	0.5
	5.5	0.8			18	3.0S	0.5
Aluminium	1	18	1500	Nitrogen or compressed air	12	1.5S	0.5
	2	6			14	2.0S	0.5
	3	2.5			15	2.5S	0.5
	4	0.8			17	3.0S	0.5
Brass	1	15	1500	Nitrogen or compressed air	14	1.5S	0.5
	2	5			16	2.0S	0.5
	3	1.8			18	2.5S	0.5
	4	1			20	3.0S	0.5