

EAGLE--LF6025 Laser Cutting Machine



The LF-6025 is a closed flat-bed fiber laser cutting machine designed for high-speed cutting of all kinds of sheet metal and offers a robust and reliable solution to extremely rapid production. With over 1.0G of acceleration from the laser head, 8' x 20' working area, and included nesting software, this machine allows for maximum productivity and minimal waste.





Technical Specifications

Working Area	8' x 20' (2550 x 6050mm)
Laser Source	Fiber Laser
Laser Power	30kW /40kW /60kW
Max. Speed	120m/min
Size	50.4' x 13.3' x 7.9' (15,350 x 4,050 x 2,400mm)
Weight	33,500lbs (15,200Kg)

- **The lightweight gantry, robust and durable guide rails and transmission racks, high-performance servo motors ensure that the machine can do cutting at a very high speed.**
- **The 8' x 20' working area can accommodate almost all kinds of standard metal sheets, or even two or more at a time.**
- **Maximum safety during operation thanks to the enclosed protective housing.**
- **Efficient removal of flue gases and suspended particles using the multi-chamber exhausting system.**

Laser Power: 30kW



Model	MFMC-30000
Central Wavelength	1080nm
Working Voltage	400VAC
Type of Cooling	Water-Cooling
Size	750*1100*1070mm
Weight	590 (±10) kg

<p>10-40mm carbon steel cutting</p>	
<p>16-40mm stainless steel cutting</p>	
<p>20-40mm carbon steel cutting</p>	
<p>40mm aluminum block cutting</p>	

Material	Thickness[mm]	Speed[m/min]	Power[W]	Gas
Carbon Steel	5	22-30	30000	N2/Air
	6	18-22		
	8	14-16		
	10	12-14		
	12	10-12		
	14	8-10		
	16	8-8.5		
	18	5.5-6.5		
	20	4.5-5.5		
	25	2.8-3.2		
Carbon Steel	12	3.2-3.5	30000	O2
	14	3-3.2		
	16	3-3.1		
	20	2.8-3		
	25	2.6-2.8		
	30	2.2-2.6		
	35	1.4-1.6		
	40	1-1.4		
	45	0.8-0.9		
Stainless Steel	3	40-50	30000	N2
	4	35-40		
	5	25-30		
	6	22-25		
	8	18-22		
	10	13-16		
	12	10-12		
	14	8-10		
	16	7-8		
	18	6-7		
	20	4-5		
	25	2-2.5		
	30	1.2-2		
	40	0.6-0.8		
Stainless Steel	3	40-50	30000	Air
	4	35-40		
	5	25-30		
	6	22-25		
	8	18-22		
	10	14-18		

	12	12-14		
	14	10-12		
	16	8-9		
	18	6-7		
	20	5-6		
	25	2.5-3		
	30	1.5-2		
	40	0.8-1		
Aluminium Alloy	3	30-35	30000	N2
	4	25-30		
	5	18-25		
	6	18-20		
	8	15-18		
	10	12-15		
	12	10-12		
	14	8-10		
	16	6-8		
	18	3-4		
	20	2-3		
	25	1.5-2		
Brass	2	35-40	30000	N2
	3	28-30		
	4	20-25		
	5	18-20		
	6	15-18		
	8	10-15		
	10	8-10		
	12	5-8		
	14	3-5		
	16	1.5-2		
	18	1.2-1.5		
	20	0.8-1		
Copper	1	25-30	30000	O2
	2	25-30		
	3	20-25		
	4	18-20		
	5	15-18		
	6	10-15		
	8	6-10		
	10	2-3.5		

Laser Power: 40kW-50kW



Model	MFMC-40000-50000
Central Wavelength	1080 (±10) nm
Working Voltage	400 (+40) VAC
Type of Cooling	Water-Cooling
Size	1120*1100*1070mm
Weight	862 (±10) / (±10) 936kg

<p>30mm stainless steel</p>	
<p>40mm carbon steel</p>	
<p>40mm carbon steel</p>	

Laser Power: 60kW

Output Power	60kW
Central Wavelength	1080 (±10) nm
Output Power of Red Light	<1mW
Modulation Frequency	50 ~ 2kHz
Instability of Output Power	±1.5%
Optical Fiber Output Head Type	HQP
Maximum Power Consumption	180kW
Working Voltage	AC323V~AC437V 60Hz
Type of Cooling	Water-Cooling
Cutting Speed	0.35m/min (5.83mm/s)
Working Environment Temperature Range	10~40°C
Storage Temperature	-10~60°C

Fiber laser water cooling machine



- High quality stainless steel cold water circulation pump, high flow, high head, low noise, long life; Plastic water tank, stainless steel pipe, valve parts without rust worries.
- The control system adopts LCD controller, real-time display of cooling water temperature, CPU automatic control, simple and intuitive operation.
- Provide multiple protection functions and passive alarm terminal.

Laser Head



- The laser head with optimized laser path and optical design can cooperate with the control system and help you get better cutting quality in a smoother process.

- Collision protection for your cutting head guarantees the highest process reliability. You benefit from shorter non-productive times due to increased machine availability. In the event of collisions, damage to the cutting head is avoided.



