



Authorized Dealer:
 Global Sales Group, LLC
 P.O. Box 1835 * Chico, CA 95927
 Toll Free: 877-474-5521
 Office: 530-893-2444
 www.globalsalesgroupllc.com



Fiber Laser Cutting Machine

Features:

- Applications for cutting various metallic material, such as metal, stainless, galvanize, cooper, electrolytic sheet / plate and many more.
- Durable and steady are key features that ensure long life of motion and +/- 0.01 ~ 0.002 mm accuracy.
- Special untouched following system
- Unique optics structure of the fly ray, which has low warp with high, steady and easy optical adjustment.
- LCD screen with the USB interface for data input. PC base control system based on the stepper
- The software of the machine has multi-functions; supports the file of DWG, HDGL(PLT), BMP, DXF, G-code, DST and AI which can work with the software of AutoCAD, CorelDraw, and Photoshop.
- This software has the function of power-off memory and continues from the stop point.

Castaly Model	CLC-FB2416	CLC-FB5147	CLC-FB5198	CLC-FB59118
Working Size (Inch)	23.6" * 15.75"	51" * 47"	51" x 98.4"	59" * 118"
Controller	PC Base	PC Base	PC Base	PC Base
Driving System	Yaskawa Servo	DSP System	DSP System	DSP System
Laser Type	Fiber Laser	Fiber Laser	Fiber Laser	Fiber Laser
Laser Working Medium	ND-YVO4	ND-YVO4	ND-YVO4	ND-YVO4
Laser Wave Length	1060 nm	1060 nm	1060 nm	1060 nm
Beam Quality	0.373 mrad	0.373 mrad	0.373 mrad	0.373 mrad
Max. Piping Working Size	~	~	~	~
Cutting Speed	0 ~ 1570 ipm	0 ~ 3890 ipm	0 ~ 3890 ipm	0 ~ 3890 ipm
Reposition Accuracy	0.0004 "	0.0008"	0.0008"	0.002 "
Minimum Letter Size	0.04 " x 0.04"	0.04 " x 0.04"	0.04 " x 0.04"	0.04 " x 0.04"
Cooling Mode	Water & Protection System	Water & Protection System	Water & Protection System	Water & Protection System
Auxiliary Equipments	Exhaust-Fans	Exhaust-Fans	Exhaust-Fans	Exhaust-Fans
Power 220V	Max. 10 KW	Max. 10 KW	Max. 10 KW	Max. 10 KW
Machine Size (L x W x H)	67" x 47" x 73"	110" x 89" x 67"	159" x 89" x 67"	181" x 97" x 67"
Machine Weight	1,760 lbs	5,600 lbs	8,700 lbs	11,200 lbs



CLC-FB2416
23.6" x 15.8" Fiber Laser Cutting
Machine

Available: 500W, 1,000W,
1,500W & 2,000W



CLC-FB5147
51" x 47" Fiber
Laser Cutting
Machine

Available:
500W, 750W
& 1,000W



CLC-FB5198 51" x 98" Fiber Laser Cutting Machine
Available: 500W, 750W & 1,000W



CLC-FB59118 59" x 118" Fiber Laser Cutting Machine
Available: 500W, 1,000W, 1,500W & 2,000W



CE standard protective glass



**CLC-FB59118TN 59" x 118" Fiber Laser Cutting Machine
(Exchange Table)
Available: 500W, 1,000W, 1,500W, 2,000W & 4000W**

Exchanging Platform

It adopts an up and down exchange platform;

The converter is responsible for controlling the exchanging motor;

The machine is able to finish the platform exchanging within 15s.





**CLC-FB59118PI 59" x 118" Fiber Laser Cutting Machine
(Piping & Sheet / Plate Dual-Use)
Available: 500W, 1,000W, 1,500W & 2,000W**

Castaly Model	CLC-FB59118	CLC-FB59118TN	CLC-FB59118PI
Working Size (Inch)	59" * 118"	59" * 118"	59" * 118"
Controller	PC Base	PC Base	PC Base
Driving System	DSP System	DSP System	DSP System
Laser Type	Fiber Laser	Fiber Laser	Fiber Laser
Laser Working Medium	ND-YVO4	ND-YVO4	ND-YVO4
Laser Wave Length	1060 nm	1060 nm	1060 nm
Beam Quality	0.373 mrad	0.373 mrad	0.373 mrad
Max. Piping Working Size	~	~	5.9" Dia x 118" L
Cutting Speed	0 ~ 3890 ipm	0 ~ 4720 ipm	0 ~ 3890 ipm
Reposition Accuracy	0.002 "	0.002 "	0.002 "
Minimum Letter Size	0.04 " x 0.04"	0.04 " x 0.04"	0.04 " x 0.04"
Cooling Mode	Water & Protection System	Water & Protection System	Water & Protection System
Auxiliary Equipments	Exhaust-Fans	Exhaust-Fans	Exhaust-Fans
Power 220V	Max. 10 KW	Max. 10 KW	Max. 10 KW
Machine Size (L x W x H)	181" x 97" x 67"	321" x 111" x 83"	181" x 97" x 67"
Machine Weight	11,200 lbs	16,500 lbs	13,300 lbs

(Training and installation, tooling & rigging are optional)
(Customer is responsible for local regulations and connecting utilities)

- High strength, stability, tensile strength, ensuring 20 years of use without distortion;
- Thickness of rectangular pipe wall is 10mm and weights 4500 kg.



3rd Generation Aviation Aluminum Gantry

It is manufactured with aerospace standards and formed by 4300 tons press extrusion molding. After aging treatment, its strength can reach 6061 T6 which is the highest strength of all gantries. Aviation aluminum has many advantages, such as good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.



Without manual operation, it can focus automatically



- Without manual focusing

The software automatically adjusts the focusing lens to realize automatic perforating and cutting plates of different thickness. The speed of automatically adjusting focus lens is ten times of the manual adjusting.

- Bigger adjustment range

Adjustment range -10 mm~ +10mm, precision 0.01 mm, suitable for 0 ~ 20mm different types of plates.

- Long service life

Collimator lens and focus lens both have water-cooling heat sink which reduces the temperature of the cutting head to improve the life of the cutting head.



CUTTING THICKNESS AND SPEED REFERENCE

		500W	1000W	2000W	3000W
Material	Thickness mm	Speed m/min	Speed m/min	Speed m/min	Speed m/min
Aluminum	1	4.7 - 5	6.3 - 9.8	19 - 26	24 - 42
	2	0.6 - 1.1	2.9 - 3.6	7.3 - 10.5	10.5 - 17
	3		0.6 - 1	3.9 - 6.3	7.3 - 10.5
	4			1.9 - 3.1	3.7 - 5.2
	5			1.1 - 1.9	2.9 - 4.2
	6			0.8 - 1.2	1.6 - 2.6
	8				0.6 - 1.1
Cooper	1	4.7 - 5.2	6.3 - 10.1	14.7 - 16.3	26 - 36
	2	0.5 - 1.1	2.9 - 3.3	4.7 - 6.8	10.5 - 15.5
	3		0.6 - 1.2	2.3 - 3.4	5.2 - 7.8
	4			1.4 - 2.1	3.6 - 4.8
	5			1.5 - 1.7	2.7 - 3.3
	6			0.8 - 1.2	1.1 - 2.1
	8				0.8 - 1
Carbon Steel	1	7.6 - 12	15.5 - 25	25 - 31.5	31.5 - 43
	2	3.1 - 4.7	5.2 - 7.8	5.7 - 7.9	6.9 - 9.2
	3	1.9 - 2.9	1.9 - 4.2	3.6 - 5	4.2 - 6.3
	4	1.2 - 1.6	2.1 - 2.5	2.7 - 3.6	3.3 - 4.7
	5	1 - 1.3	1.9 - 2.2	2.3 - 2.9	3 - 3.6
	6	0.5 - 1	1.3 - 1.6	1.9 - 2.5	2.5 - 3.1
	8		0.9 - 1.1	1.1 - 1.9	1.9 - 2.8
	10		0.7 - 1	1 - 1.3	1.5 - 2.1
	12		0.4 - 0.9	0.9 - 1.1	1.1 - 1.6
	14		0.3 - 0.6	0.7 - 0.8	0.8 - 1.4
	16			0.6 - 0.7	0.7 - 1.1
	18			0.3 - 0.6	0.6 - 1
	20				0.5 - 0.9
22				0.4 - 0.7	
Stainless Steel	1	7 - 13.5	19 - 27	25 - 32	31 - 42
	2	2.3 - 5.2	7.1 - 11.9	10.5 - 16.5	19 - 22
	3	0.6 - 0.7	1.9 - 2.3	4.2 - 6.4	8.1 - 11.8
	4		1.2 - 1.4	2.9 - 4.6	5.9 - 9.3
	5		0.5 - 0.8	1.9 - 2.7	3.1 - 5.1
	6			1.1 - 2.1	2.9 - 4.5
	8			0.7 - 1.1	1.5 - 2
	10			0.5 - 0.6	0.8 - 1.2
	12				0.5 - 0.8
	14				0.3 - 0.6