



CASTALY INDUSTRIES CORP.

637 VINELAND AVE. LA PUENTE, CA 91746

TEL: 626-968-6330 FAX: 626-968-6333

E-mail: info@castalymachine.com Website: www.lobomachine.com



Fiber Laser (Sheet Metal Cutting)

- Applications for cutting various metallic material, such as metal, stainless, galvanize, cooper, electrolytic sheet / plate and 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.



5' x 10' Flat bed Fiber Laser

CLC-FB59118- 10 (1 kw) \$72,990.00, CLC-FB59118- 15 (1.5 kw) \$76,990.00

CLC-FB59118- 20 (2 kw) \$81,990.00, CLC-FB59118- 30 (3 kw) \$95,990.00

CLC-FB59118- 60 (6 kw) \$146,990.00

Open type, single platform, simple structure, easy installation, high precision, high speed, simple operation, easy maintenance, affordable equipment, low running cost, customized products for enterprise sheet metal processing.

Specification	CCL-FB510-6KW	CCL-FB510-6KW-EX
Laser Power	6 KW	6 KW
Exchange Table	None	Single Table Exchange
Working Size	50" x 120" (1550*3050mm)	50" x 120" (1550*3050mm)
Maximum Load Material Weight	1,200 kgs	1,500 kgs
Laser Generator	Fiber Laser Generator	Fiber Laser Generator
Y Axis Transit System	Double Gear Rack System	Double Gear Rack System
Z Axis Travel	300 mm	300 mm
Rapid Speed	120 m/min	120 m/min
Max. Access Speed	1G	1G
Positioning Accuracy	±0.05/1000 mm	±0.05/1000 mm
Repeat Accuracy	±0.03/1000 mm	±0.03/1000 mm
Working File	plt、 dxf ...	plt、 dxf ...
Working Environment	0-40°C · Temperture≤80%	0-40°C · Temperture≤80%
Total Machine Power	6.8 kw	6.8 kw
Machine Size (L x W x H)	4200 x 2812 x 1940 mm	8100 x 2812 x 2640 mm



5' x 10' Flat Bed & Tube Fiber Laser

CLC-FB59118UB- 15 (1.5 kw) \$112,990.00

CLC-FB59118UB- 20 (2 kw) \$117,990.00

CLC-FB59118UB- 30 (3 kw) \$129,990.00

It can cut both plates and profiles (including square pipes, round pipes, channels, angles, etc.), and it can cut both carbon steel and stainless steel. One machine is multi-purpose and has high-cost performance.

Specification	CLC-FB59118 (UB)	CLC-FB59118TN (4 & 6kw)
Laser Power	Options	Options
Exchange Platform	None	Twin Platform Exchange
Working Size	50" x 120" (1550*3050mm)	50" x 120" (1550*3050mm)
Pipe Cutting Capacity (mm)	20~220 Dia. 6000 Length	~
Max. Load Material Weight	900 kgs	1,000 / 1500 kgs
Laser Generator	Fiber Laser Generator	Fiber Laser Generator
Y Axis Transit System	Double Gear Rack System	Double Gear Rack System
Z Axis Travel	120 / 270 mm	270 / 300 mm
Rapid Speed	100 m/min	120 m/min
Max. Access Speed	1G	1 / 1.3 G
Positioning Accuracy	±0.05/1000 mm	±0.05/1000 mm
Repeat Accuracy	±0.03/1000 mm	±0.03/1000 mm
Working File	plt 、 dxf ...	plt 、 dxf ...
Working Environment	0-40℃ · Temperature≤80%	0-40℃ · Temperature≤80%
Machine Size (L x W x H)	4200 x 2812 x 1940 mm	8100 x 2812 x 2640 mm

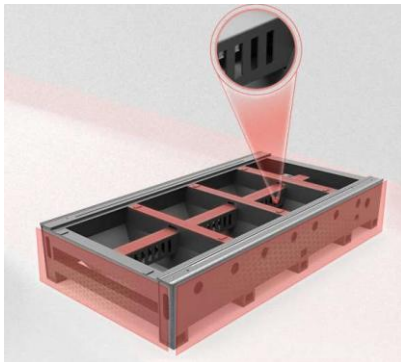
Training and installation, tooling & rigging are optional.) (Customers are responsible for local regulations and connecting utilities)

The price is F.O.B. Los Angeles Ca. USA. Tooling, rigging, freight & sales taxes are not included.

Full Payment with order or 50% deposits with confirm order, 50% before shipping.

If there are any questions, please feel free to call us at 1-(626) 968-6330 or e-mail to us at info@castalymachine.com

(Price may vary, please check our website at www.cncroutergroup.com for the current price list)



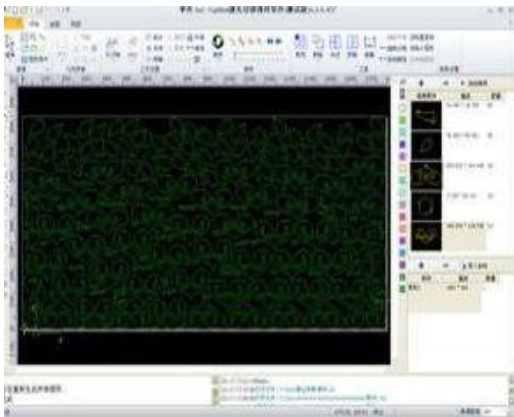
MACHINE BASE

- The internal structure of the bed adopts the steel plate structure, which is welded by high-quality plates. The steel plate increases the resistance and stability of the guide rail to effectively avoid the deformation of the bed.
- Secondary aging treatment and large-scale gantry milling machine precision machining to ensure stability and durability under high intensity of using
- With 24 hours quenching process.
- Support max moving speed 8.0 m/min.



Raytools (Auto focus Laser head BM115)

- Most professional laser cutting head manufacturers
- Modular design with easy maintenance.
- Dual water-cooling circuits.
- Auto focus to reduce human intervention and
- improve piercing and cutting efficiency.
- 3 Cover glasses (top, middle and bottom) to
- protect collimation & focus lens.
- IP65 class dustproof, patented cover glass cover.
- plate. All-around dust prevention.



Control Cypcut (FSCUT2000)

FSCUT2000 medium power laser cutting system is a full-solution open-loop control system especially designed for the sheet metal processing industry, which owns a wide market share with the features of easy to install and adjust, excellent performance and fully integrated solutions.



Servo System

- Japan FUJI drive & motor



Raycus 6KW Laser Generator

- High electro-optical conversion efficiency
- Altitude stress-resisting capacity
- Sheet cutting efficiency.
- Customized output fiber length
- Maintenance-free operation
- Wide modulation frequency range



HANLI Water Chiller (6KW)

- When laser head processes the cut metals, there will produce hot energy in laser head and laser device.
- Water chiller is for cooling these two parts. Laser head part, cooling the mirrors.
- The temperature in the water chiller is auto adjustment, set up with around 25 degrees.
- Water in chiller should be pure water.



Linear Bearing & Rack

High-precision brand rack transmission, faster transmission speed, wear resistance and longer service life



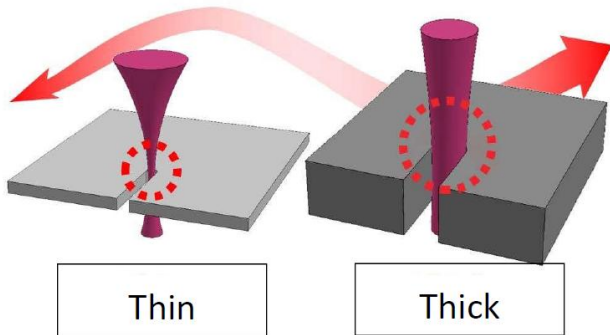
Air – Smoke Exhaust Line

There air smoke exhaust holes on the central axis of the machine base, which runs through the whole base, so that no matter which part of the machine the laser head works in, the smoke generated during cutting can be discharged in time.



Storage Cart for the Waste

- Foldable cart for waste collecting
Collecting the cut material.
- More convenient



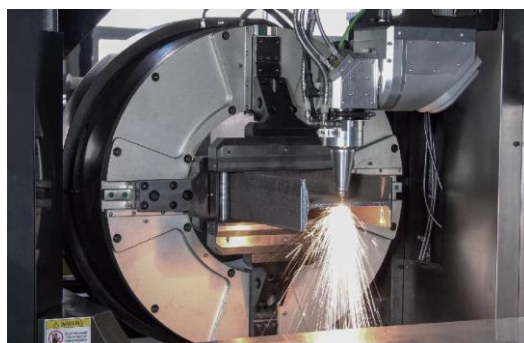
Auto Collimation Laser Head

The Auto Collimation technology from laser head offers the ability to precisely control the laser beam spot size and focus position, allowing the seamless removal of molten metal from within the kerf of the cut. This has solved the issue that standard fiber lasers can have when processing thicker mild steel: If molten material did not remove from the cut quickly enough, the cutting speed needs to reduce. Auto Collimation technology ensures the highest cutting speeds with a high-quality cut surface.



Anti-collision Height Controlling Z axis.

Z axis is equipped with capacitive height controller to provide excellent performance in distance control. provides excellent performance in distance control. It also supports vibration suppression to restrict laser head resonating with vibrated thin sheet under pressured gas. Working with cutting software can realize the functions of find workpiece edge', 'frog-leap' and 'stepping'





CASTALY INDUSTRIES CORP.

637 VINELAND AVE. LA PUENTE, CA 91746

TEL: 626-968-6330 FAX: 626-968-6333

E-mail: info@castalymachine.com Website: www.lobomachine.com



Fiber Laser with Exchange Platform

CLC-FB59118TN- 10 (2 kw) \$110,990.00

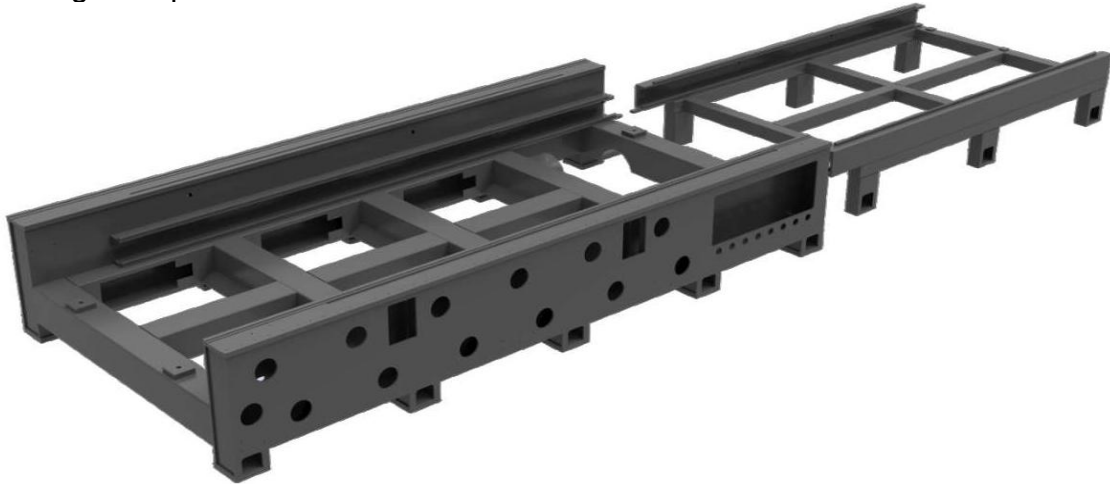
CLC-FB59118TN- 15 (3 kw) \$123,990.00

CLC-FB59118TN- 20 (4 kw) \$165,990.00

CLC-FB59118TN- 30 (6 kw) \$179,990.00

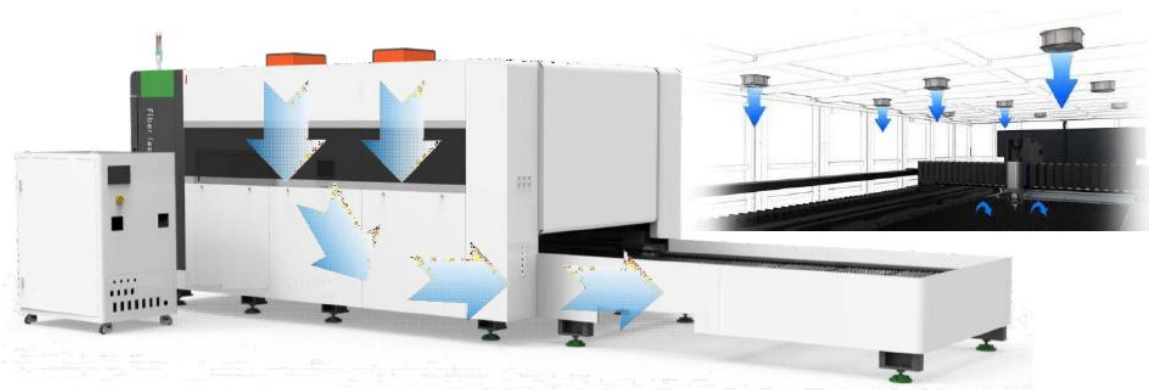
Twin exchange able platform to prepare the loading – unloading while the project was under processing, save time and labor for mass production.

High - steel medium - sized machine tools reduce the height of the cutting process produced by vibration. It is a high-end laser cutting equipment with laser protective cover and special laser protective glass observation window. It is the first preferred product of high-end manufacturing enterprises.



Exchange platform

Driven by dual motors, its workbench can offer stable and fast exchange; The dual motors work separately without any effect on each accuracy, and it is easy to remove slags; The dual taper pins enable the exact positioning. The overall structure features good rigidity, less heat absorption, fast heat dissipation, and anti-deformation; Remain stable after long-term working at high speed.



Positive-pressure Protection with strong Ventilation

The ventilation area, divided into left and right zones, equipped with valve damper, and thus has strong and intensive suction. It is noiseless while opening and closing. Due to the large pipeline, cutting smoke will be discharged smoothly; The machine bed is always full of positive pressure. In combination with the strong ventilation system below, smoke dust will disappear rapidly to offer you a clean working environment.

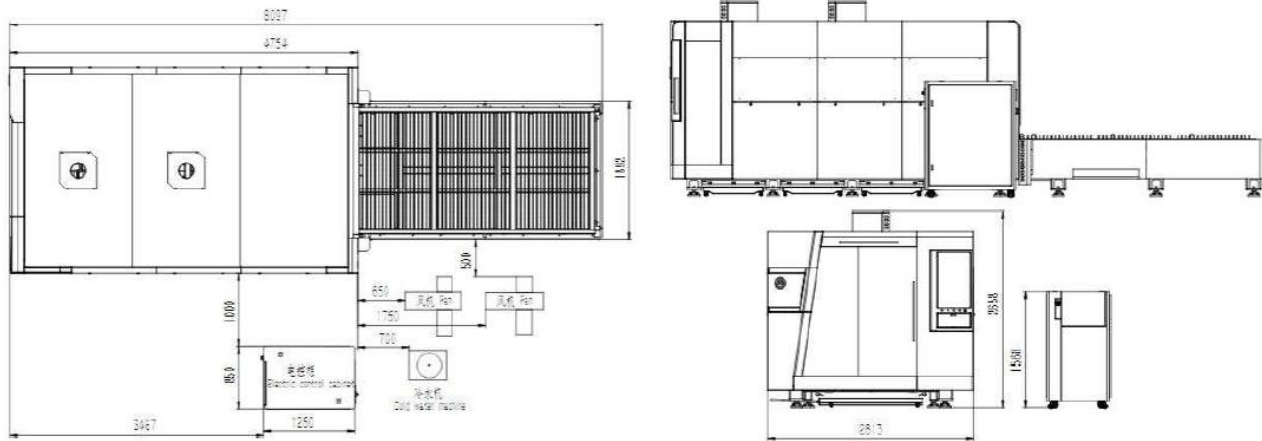
Training and installation, tooling & rigging are optional.) (Customers are responsible for local regulations and connecting utilities)

The price is F.O.B. Los Angeles Ca. USA. Tooling, rigging, freight & sales taxes are not included.

Full Payment with order or 50% deposits with confirm order, 50% before shipping.

If there are any questions, please feel free to call us at 1-(626) 968-6330 or e-mail to us at info@castalymachine.com

(Price may vary, please check our website at www.cncroutergroup.com for the current price list)

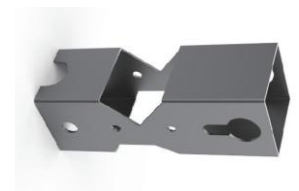
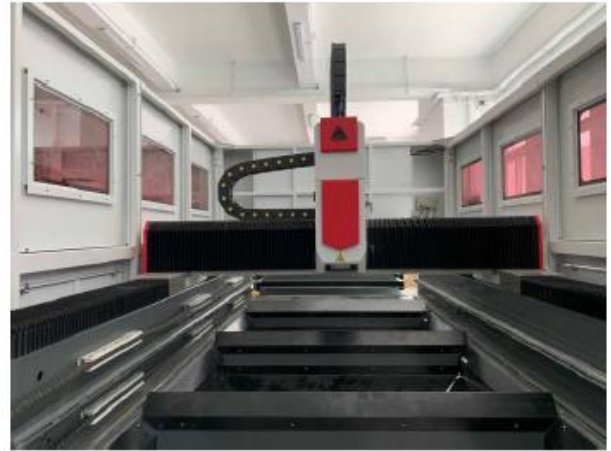


Specification	CLC-FB59118 (UB)	CLC-FB59118TN (4 & 6kw)
Laser Power	Options	Options
Exchange Platform	None	Twin Platform Exchange
Working Size	50" x 120" (1550*3050mm)	50" x 120" (1550*3050mm)
Pipe Cutting Capacity (mm)	20~220 Dia. 6000 Length	~
Max. Load Material Weight	900 kgs	1,000 / 1500 kgs
Laser Generator	Fiber Laser Generator	Fiber Laser Generator
Y Axis Transit System	Double Gear Rack System	Double Gear Rack System
Z Axis Travel	120 / 270 mm	270 / 300 mm
Rapid Speed	100 m/min	120 m/min
Max. Access Speed	1G	1 / 1.3 G
Positioning Accuracy	±0.05/1000 mm	±0.05/1000 mm
Repeat Accuracy	±0.03/1000 mm	±0.03/1000 mm
Working File	plt、dxf ...	plt、dxf ...
Working Environment	0-40℃ · Temperature≤80%	0-40℃ · Temperature≤80%
Machine Size (L x W x H)	4200 x 2812 x 1940 mm	8100 x 2812 x 2640 mm



Optional Fume Extractor \$9,870.00

- Air Flow : 4500m³/h, 2800Pa
- Noise : ≤78db
- Machine size : 720 * 750 * 1650mm
- Filter cartridge size : φ325*650MM
- Cartridge Qty : 2 pcs
- Filtration efficiency : >99.7%
- Filtration Area : 24m²
- Dust inlet diameter : φ200 mm
- Cartridge material: H13 class HEPA PTFE
- Cartridge Filters
- Dust cleaning system: Automatic pulse blows back system



Installation Preparation

Capacity: $\leq 30\text{kva}$

Voltage: $220\text{V} \pm 5\%$ **** **Automatic voltage stabilizing device must be installed**

Water: Grounding resistance $\leq 4\Omega$ **** There should be no strong electromagnetic interference near the installation equipment, and there should be no radio transmission station or relay station around the installation.

Water chiller water: It recommended to use pure water, deionized or distilled water, and the specified antifreeze can add in winter.

Gas Requirements: N_2 , O_2 Compressed air, Purity $\geq 99.99\%$, Pressure $\geq 2.5\text{mpa}$, Will have difference according to varied materials, technology

Working Environment Temperature: $5\text{--}40^\circ\text{C}$ Humidity Ground $\leq 70\%$

Ground standard: $500\text{kg}/\text{m}^2$, Amplitude $\leq 50\mu\text{m}$, Amplitude acceleration $\leq 0.05\text{g}$, No large punching vibration equipment nearby

Equipment space requirements to ensure smoke-free dust, avoid metal dust, grinding and other dusty working environment, and must install anti-static floor, connect shielded wire.

Electricity consumption (1KW as example) :

parts	Electricity consumption (KW)	total
Laser source	3	27KW/H
Machine base	22.5	
Chiller	1.6	

Gas Consumption:

Gas type	volume /can	Using time	Using Volume	Cutting performance	note
Oxygen	(40L)	80 minutes	30L/H	Black edge	1mm carbon steel
Nitrogen	(40L)	20 minutes	120L/H	White edge	1mm stainless steel

Remarks:

1. The recommended gas purity is 99.999%.
2. The above cost standard is Chinese standard for reference only
3. Air cutting can be chosen when conditions are ripe.

Cutting Capacity Reference by KW Power

