

# ***FLK LASER***

CUTTING | BENDING | WELDING | CLEANING | CLADDING | MACHINING | **AUTOMATION**

A GLOBAL PROVIDER OF  
ONE-STOP METAL FABRICATION SOLUTIONS



**FEILKE** is an international metal forming automation company. As a subsidiary of the HEMSA Group, Feilike (*FLK Laser*) is designed to provide customers with high-quality, fully automatic solutions globally. It has become a technology-driven innovation enterprise by independently developing many core technologies in the laser industry and combining laser cutting, bending, welding, cladding and automation into one product to greatly improve production efficiency for customers with multiple automatic equipment requirements.







+570 PATENT CERTIFICATIONS



We have obtained CE, ROHS, FDA, ETL, CSA certificates from TÜV, and our quality and safety standards have reached international certifications

# AUTOMATION

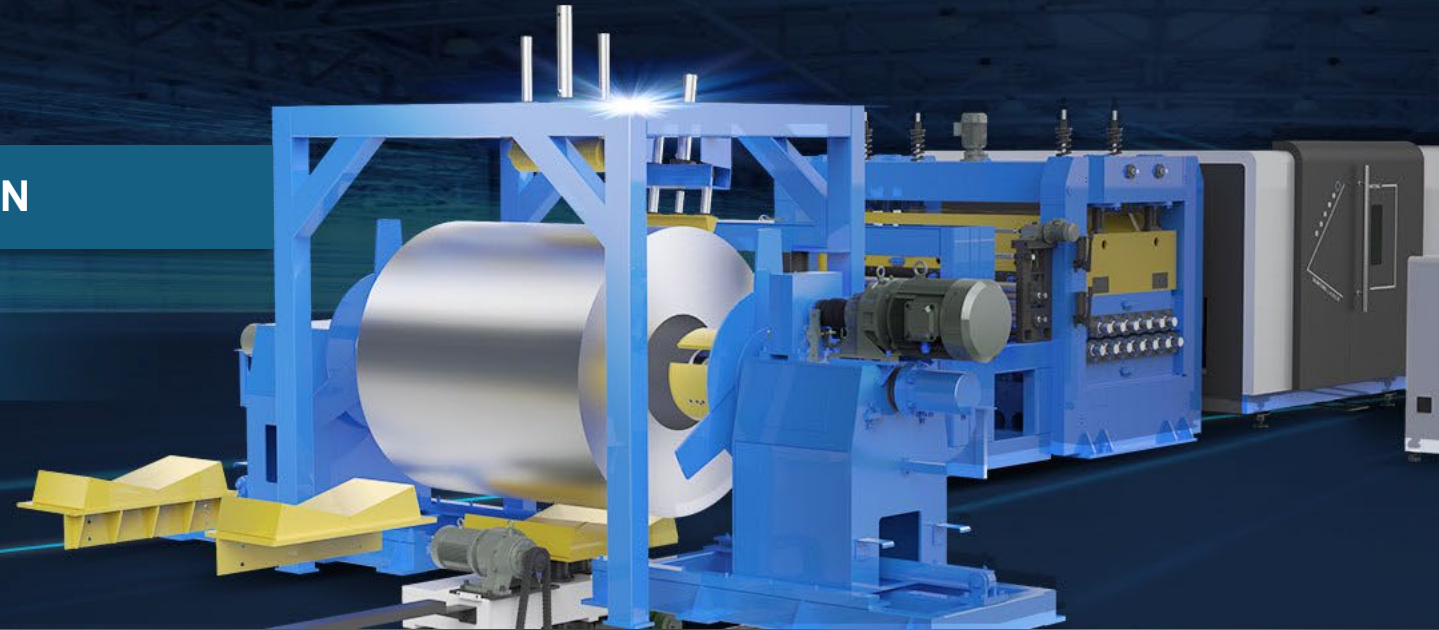




## **FLK LASER | AUTOMATION**

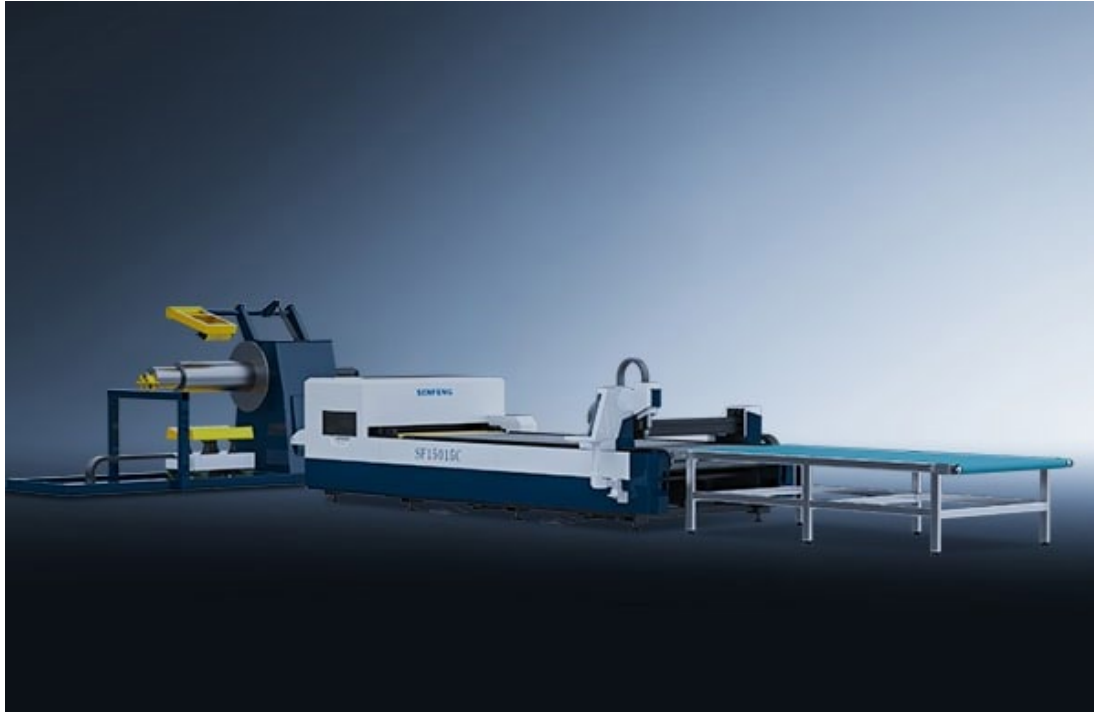
Streamline Your Production

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**With FLK, front to end automation is made possible from decoiling, leveling, feeding, cutting, unloading, bending, welding and finished product stacking.**

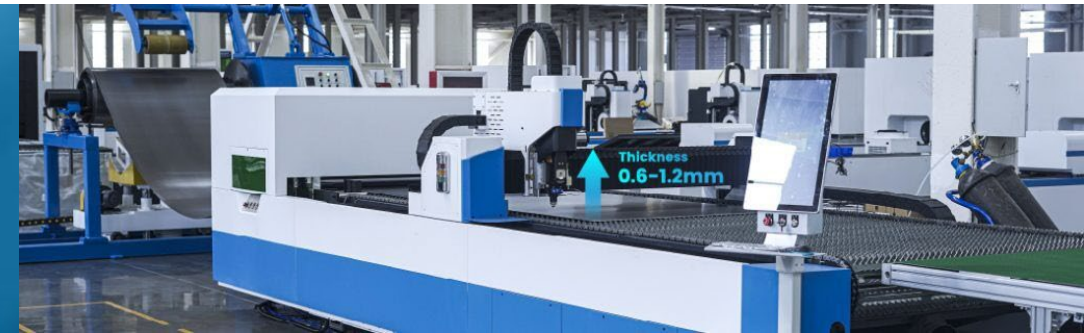
## Coil Laser Cutting Machine For 0.6-1.2mm Steel



This is an affordable model at low laser power and with open-style structure. Combining decoiling, leveling, feeding and cutting together, this machine has developed into one-stop production line from mere cutting and a sharp weapon to dispel your worry about cutting regular-sized thin coiled sheet.

**1.5 [kW] Laser power**  
**3000\*1500 [mm] Working area**  
**0.6-1.2 [mm] Thickness of sheet coil**  
**10 [T] Max weight of sheet coil**

The model can respond to ever-changing demands at any time. You just need to import new requests, instead of changing hardware structure. It is easy to handle with rush orders and enjoy flexible production.



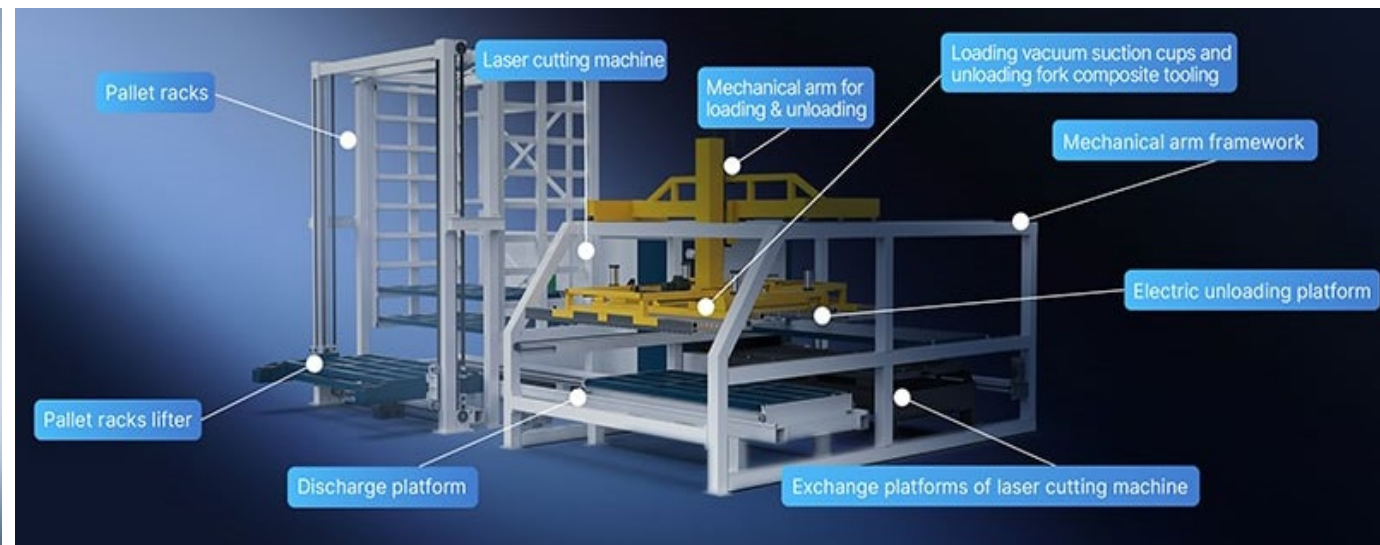
Main Parameters		Model
		SF15015C
Decoiling and Leveling Unit	Size of Sheet Coil (L*W, mm)	3000*1500
	Thickness of Sheet Coil (mm)	0.6-1.2
	Max Inner/Outer Diameter of Sheet Coil (mm)	Φ508/Φ1400
	Weight of Sheet Coil (T)	10
	Max Feeding Speed (m/min)	10
	Leveling Accuracy (mm/m <sup>2</sup> )	±2.5
Laser Cutting Machine	Laser Power (kW)	1.5
	X/Y-axis Positioning Accuracy (mm/m)	±0.05
	X/Y-axis Repositioning Accuracy (mm)	±0.02
Power Supply		Three-phase 380V, 50Hz/60Hz (custom-made)



## Laser Sheet Cutter with Loading and Unloading System

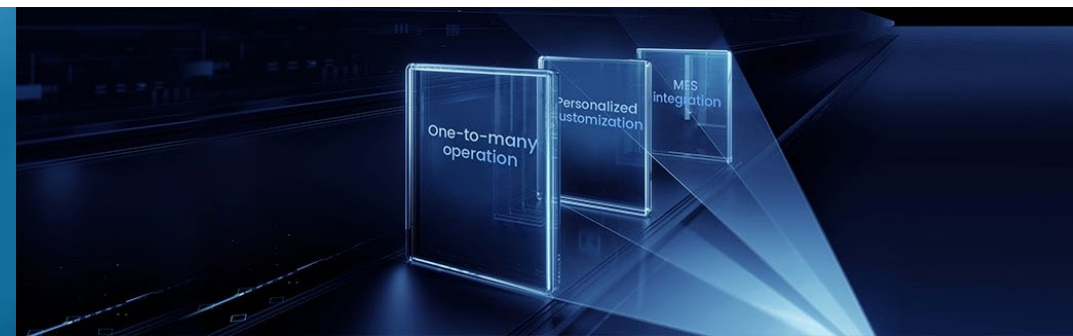


8 [layers] **Stereo pallet racks**  
 3000 [kg] **Carrying capacity of each layer**  
 3000\*1500 [mm] **Sheet size**  
 10 [m/min] **Warehouse-in/out speed**



It consists of sheet pallet racks, automatic loading & unloading devices, CNC control systems and others, and works in conjunction with a laser cutting machine to form an automated sheet metal production line. It can enable automatic loading & unloading and stereo storage of sheets, providing users with well-arranged and compact sheet storage solutions.

This production line achieves one-stop automatic operation from work scheduling, sheet storage, retrieval, loading, cutting, unloading to waste transfer, which can save occupied area and space for sheets, and serve users with convenient sheet storage and handling.





Each Parts	Item	Technical Parameters
Storage Unit	Number of Layers of Pallet Racks	8
	Layer-to-layer Height (mm)	360
	Stack-up Height of Each Layer (mm)	280 (with wooden pallet)
	Carrying Capacity of Each Layer (kg)	3000
Loading & Unloading Unit	Running Speed of Trolley (m/min)	2-15
	Lifting/Translation Speed of Mechanical Arm (m/min)	12/60
	Warehouse-in/out Speed (m/min)	10
Cutting Unit	Laser Power (kW)	6
	Max Size of Sheet (mm)	3000*1500
	Min Size of Sheet (mm)	800*800
	Sheet Thickness (mm)	0.8-12
	X/Y-axis Positioning/Repositioning Accuracy (mm)	±0.05/±0.02
	Max No-load Speed (m/min)	130
	Max Load of Platforms (kg)	2000

## Coil Laser Cutting Machine For 0.6-3mm Aluminum



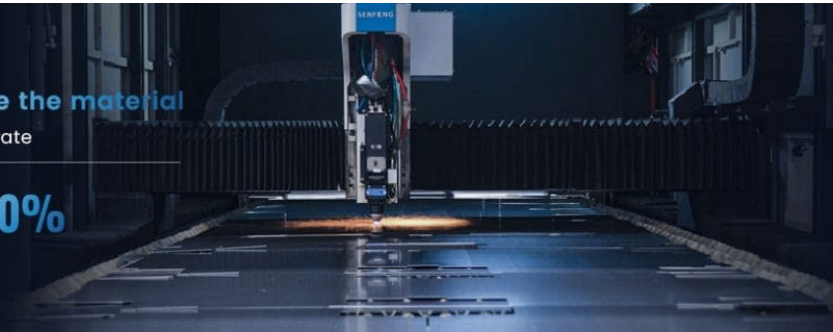
This is a blanking line special for AL sheet coil. Combining decoiling, leveling, feeding and cutting together, this machine has developed into a one-stop production line from mere cutting and a sharp weapon to cut thin sheet coils.

**6 [kW] Laser power**  
**3000\*1500 [mm] Working area**  
**0.6-3 [mm] Thickness of coiled sheet**  
**10 [T] Max weight of sheet coil**

The line is outfitted with new-style laser generator featuring multi-stage safety and high-reflectivity protection modules. Accordingly, AL and other high-reflectivity materials will witness much less laser reflection, but more laser absorptivity. Fit for AL and other non-ferrous metals

Increase the material  
utilization rate

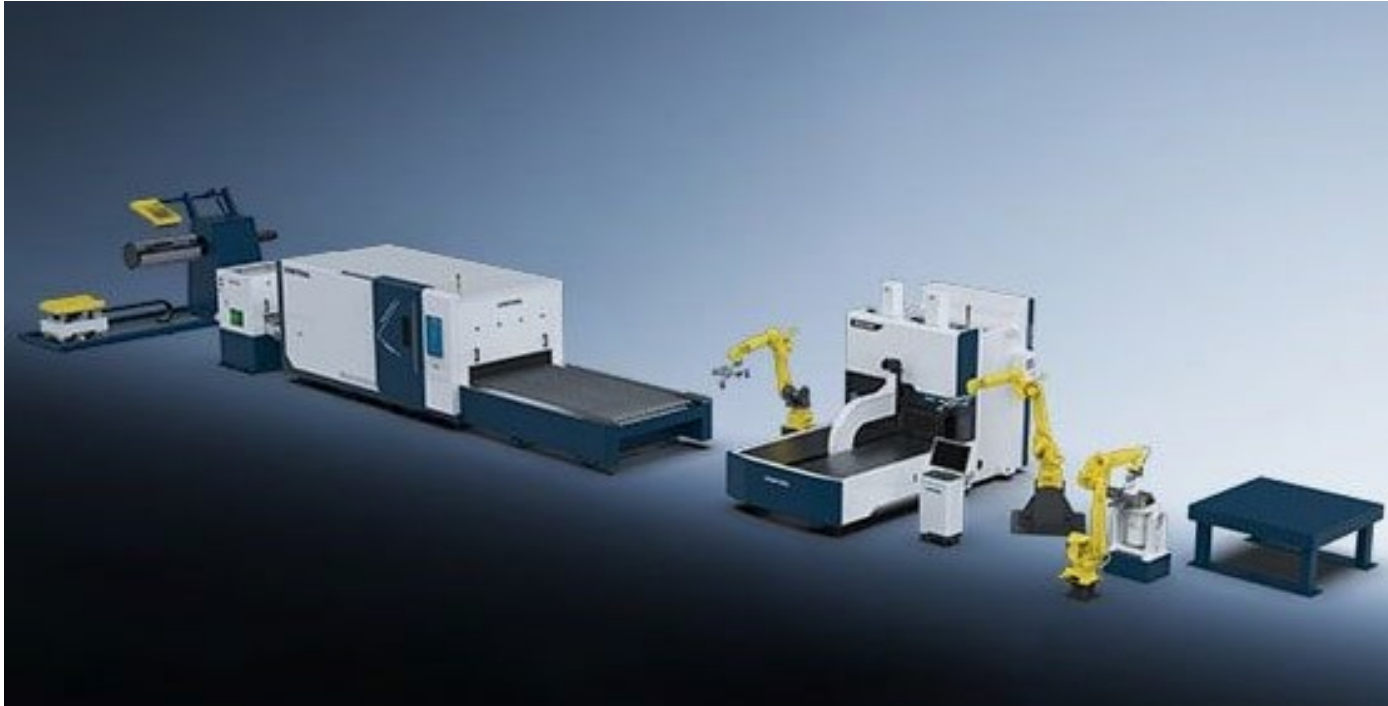
by **5~10%**





Main Parameters		Model
		SF1503CLH
Decoiling and Leveling Unit	Size of Sheet Coil (L*W, mm)	3000*1500
	Thickness of Sheet Coil (mm)	0.6-3
	Standard inner diameter of sheet coil (mm)	Φ508
	Max outer diameter of sheet coil (mm)	Φ1400
	Weight of Sheet Coil (T)	10
	Max Feeding Speed (m/min)	10
	Leveling Accuracy (mm/m <sup>2</sup> )	±1.5
Laser Cutting Machine	Laser Power (kW)	6
	X/Y-axis Positioning Accuracy (mm/m)	±0.05
	X/Y-axis Repositioning Accuracy (mm)	±0.02
Power Supply		Three-phase 380V, 50Hz/60Hz (custom-made )

## Flexible Metal Processing line TOP Series



Combining sheet coil cutting, bending, welding with automatic sorting system, TOP enables high automation in whole process from raw material decoiling to finished product stacking. We also accept customization as needed, allowing for flexible production and short lead time of orders.

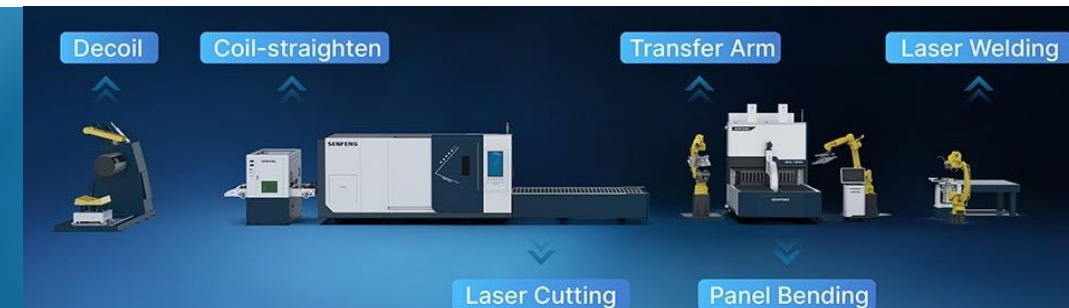
3000 [mm] **Max feeding length**

1500 [mm] **Max width of sheet coil**

3 [mm] **Max thickness of coiled sheet**

10 [T] **Max weight of sheet coil**

This metal processing line makes use of advanced manufacturing technologies and highly intelligent devices to support metal manufacturing industry's demands for efficient, flexible and custom-made production.





Main Parameters	Model
	SF1503CH-TOP RC3000W
Max Size of Sheet Coil (L*W*T, mm)	3000*1500*3
Max Outer Diameter of Sheet Coil (mm)	1400
Standard Inner Diameter of Sheet Coil (mm)	508
Max Weight of Sheet Coil (T)	10
Leveling Accuracy (mm/m <sup>2</sup> )	±2
X/Y-axis Positioning Accuracy (mm)	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.02
Max Feeding Speed (m/min)	10
Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)

## Coil Laser Cutting Machine For 0.6-3mm Steel



This is a brand-new blanking line. Combining decoiling, leveling, feeding and cutting together, this machine has developed into a one-stop production line from mere cutting and a sharp weapon to cut thin sheet coils. For some manufacturers, it is regarded as the first choice to increase production capacity.

1.5-6 [kW] **Laser power**  
3000\*1500 [mm] **Working area**  
0.6-3 [mm] **Thickness of coiled sheet**  
10 [T] **Max weight of sheet coil**

In function, this model is equal to one decoiler, leveler, plate shearer, punch press and laser cutting machine. Our self-developed intelligent system can correlate process parameters to sheet coil (such as thickness), so that the production line can adapt to material changes quickly and make its control fully digital and automatic.





Main Parameters		Model
		SF1503CH
Decoiling and Leveling Unit	Size of Sheet Coil (L*W, mm)	3000*1500*3
	Standard inner diameter of sheet coil (mm)	Φ508
	Max outer diameter of sheet coil (mm)	Φ1400
	Weight of Sheet Coil (T)	10
	Max Feeding Speed (m/min)	10
	Leveling Accuracy (mm/m <sup>2</sup> )	±2
Laser Cutting Machine	Laser Power (kW)	1.5-6
	Working Area (L*W, mm)	3000*1500
	X/Y-axis Positioning Accuracy (mm/m)	±0.05
	X/Y-axis Repositioning Accuracy (mm)	±0.02
Power Supply		Three-phase 380V, 50Hz/60Hz (custom-made)

## Coil Laser Blanking Line For 8-14mm Steel



This blanking line adopts high power and large working area to cut thick and heavy sheet coils. Combining decoiling, leveling, feeding and cutting together, this machine has developed into a one-stop production line from mere cutting.

**6 [kW] Laser power**  
**4000\*2000 [mm] Working area**  
**8-14 [mm] Thickness of coiled sheet**  
**20 [T] Max weight of sheet coil**

This model, unlike other ordinary blanking lines only cutting thin sheet coils, can handle with 14mm thick sheet coil at most. With less working procedures, it is complementary to those models, so as to make our product line perfect

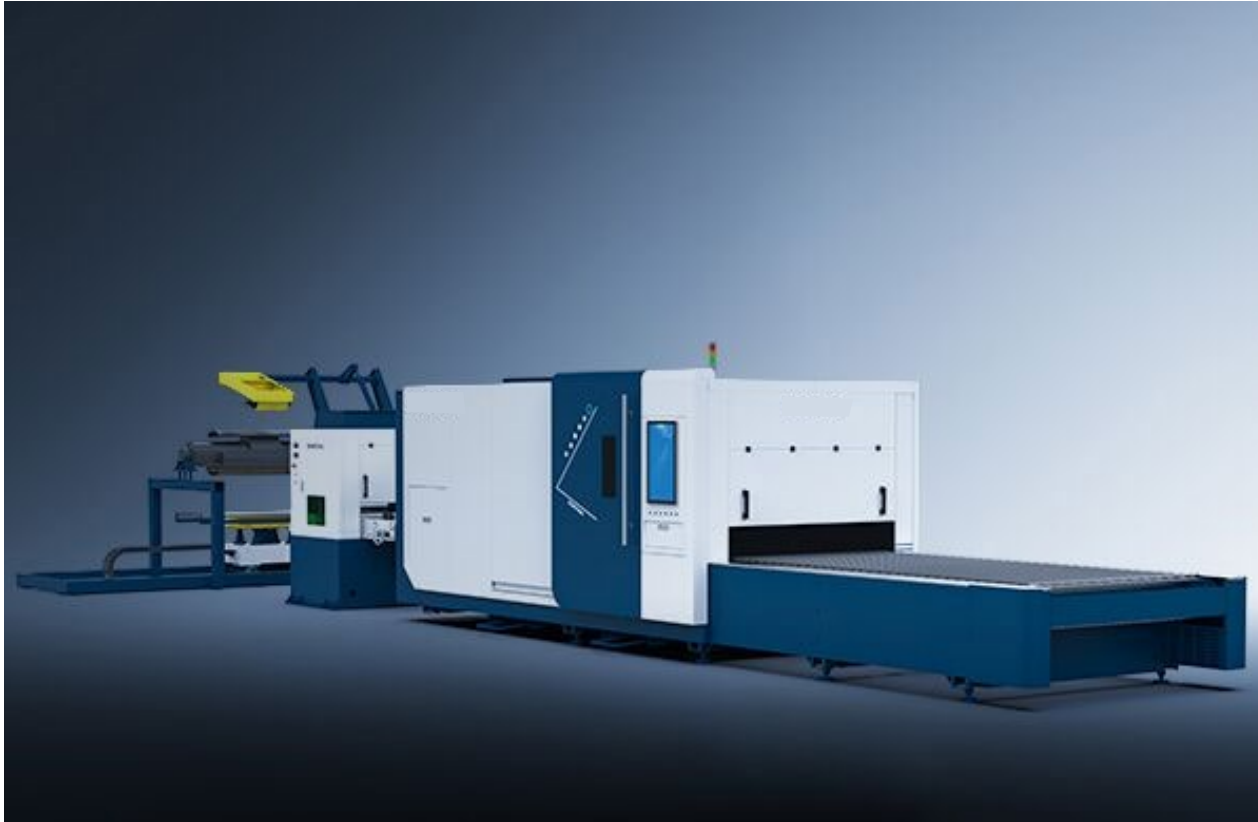


outer diameter: <b>Φ1000-1800mm</b>	weight of sheet coil: <b>20T</b>
inner diameter: <b>Φ610/762mm</b>	thickness of sheet coil: <b>8-14mm</b>
Max size of sheet coil: <b>4000*2000mm</b>	



Main Parameters		Model
		SF2012CH
Decoiling and Leveling Unit	Size of Sheet Coil (L*W, mm)	4000*2000
	Thickness of Sheet Coil (mm)	8-14
	Standard inner diameter of sheet coil (mm)	Φ610/Φ762
	Max outer diameter of sheet coil (mm)	Φ1000-1800
	Weight of Sheet Coil (T)	20
	Max Feeding Speed (m/min)	10
	Leveling Accuracy (mm/m <sup>2</sup> )	±5
Laser Cutting Machine	Laser Power (kW)	6
	X/Y-axis Positioning Accuracy (mm/m)	±0.05
	X/Y-axis Repositioning Accuracy (mm)	±0.02
Power Supply		Three-phase 380V, 50Hz/60Hz (custom-made)

## Coil Laser Blanking Line For 0.6-2mm Steel



With four functions (decoiling, leveling, feeding and cutting) together, the machine breaks through traditional metal processing patterns. With it, both mass and high-mix low-volume work are available. It can be called as an edge tool for labor-intensive industries.

**3-6 [kW] Laser power**  
**4000\*1500 [mm] Max working area**  
**0.6-2 [mm] Thickness of sheet coil**  
**10 [T] Max weight of sheet coil**

In function, this model is equal to one decoiler, leveler, plate shearer, punch press and laser cutting machine.



Tightening sleeves



Conveying flat belt receiver



Film lamination



Safety grating



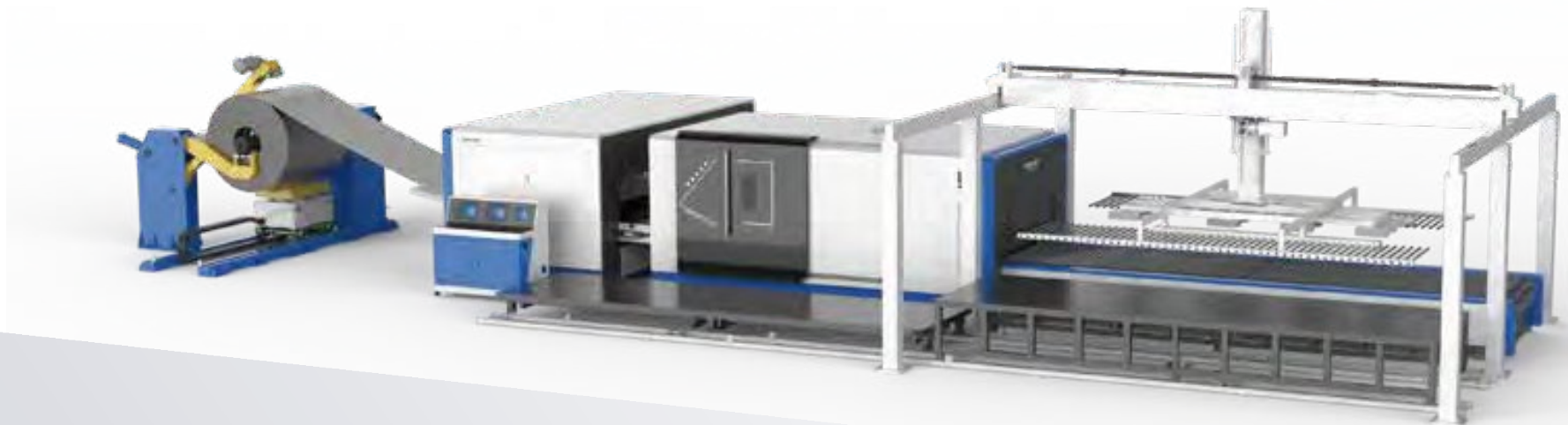
Self-made nesting software

Main Parameters		Model
		SF1502CH
Decoiling and Leveling Unit	Size of Sheet Coil (L*W, mm)	3000*1500*2/4000*1500*2
	Standard inner diameter of sheet coil (mm)	Φ508
	Max outer diameter of sheet coil (mm)	Φ1400
	Weight of Sheet Coil (T)	8-10
	Max Feeding Speed (m/min)	10
	Leveling Accuracy (mm/m <sup>2</sup> )	±2
Laser Cutting Machine	Laser Power (kW)	3-6
	Working Area (L*W, mm)	3000*1500/4000*1500
	X/Y-axis Positioning Accuracy (mm/m)	±0.05
	X/Y-axis Repositioning Accuracy (mm)	±0.02
Power Supply		Three-phase 380V, 50Hz/60Hz (custom-made)



## Turn Raw Material into End-products all in One Line

Coil-straighten; Laser cutting; Panel bending; Laser welding; Diverse optional modules



Decoil



Coil-straighten



Laser Cutting



Transfer Arm



Panel Bending



Laser Welding





## 5 STAR FAST SERVICE SYSTEM



Efficient

**24** hours\***7** days\***365** days  
Answer repair calls at any time



Professional

Customized solutions  
One to one service



Convenient

Detailed theoretical and practical training  
Regular maintenance reminder  
Extended warranty

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