

# **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



# BLANKING LINES

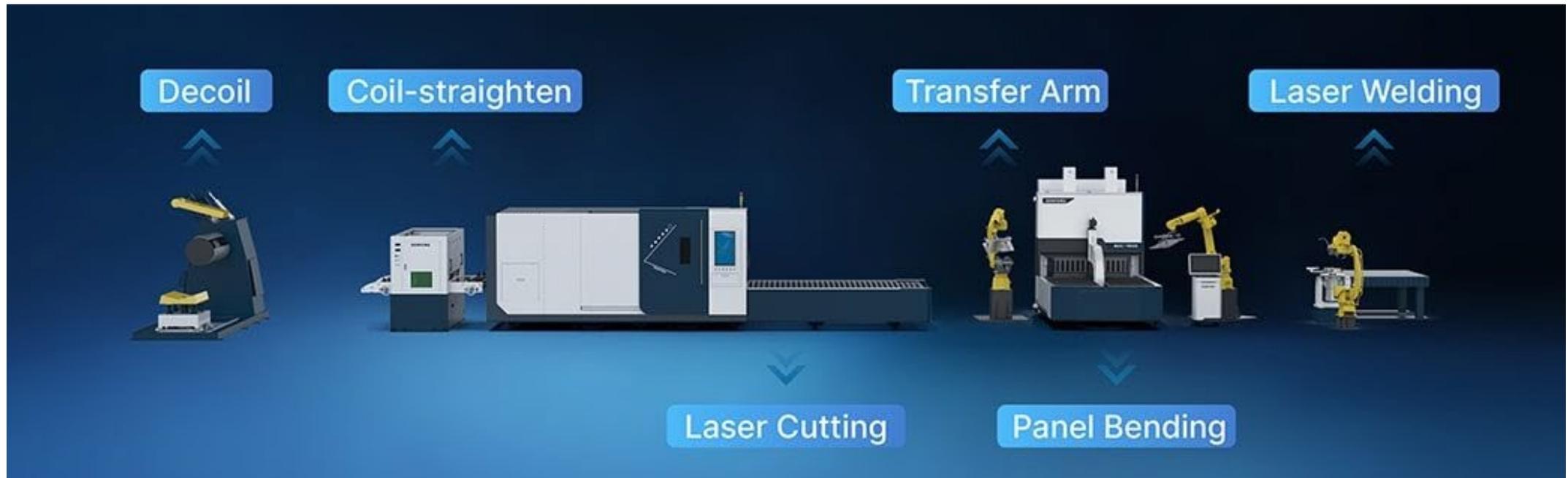


## Why choose FLK Blanking lines?

The metal coil laser cutting machines produced by FLK Laser can be combined with our **automatic feeding and discharging equipment to achieve fully automatic production of metal coils.**

The coil-fed laser cutting machine has higher production efficiency, more optimized work efficiency, high degree of automation, good cutting quality, smooth cutting surface of cut products, no burrs, no deformation, and more convenient maintenance and operation mode. Compared with other production lines, the equipment has the advantages of simple maintenance, low loss and long service life, which can bring considerable economic benefits to customers.

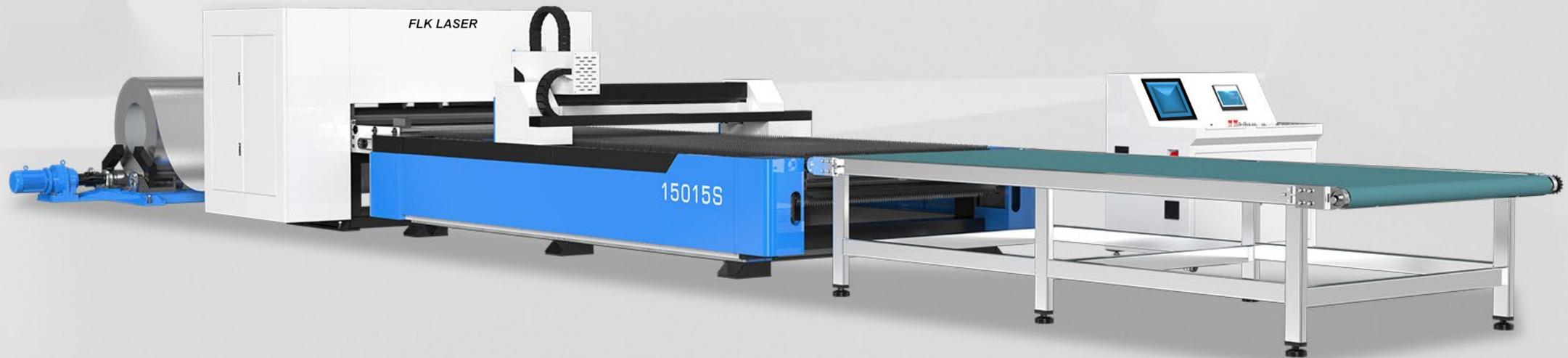
**It ensures high production efficiency, low operation cost, fast cutting speed, energy saving and excellence in finished products.**



FLK's blanking line combines a fiber laser cutting machine with an automatic metal coil feeding system, resulting in an efficient coil-fed laser cutting solution.

## **FLK-15015S**

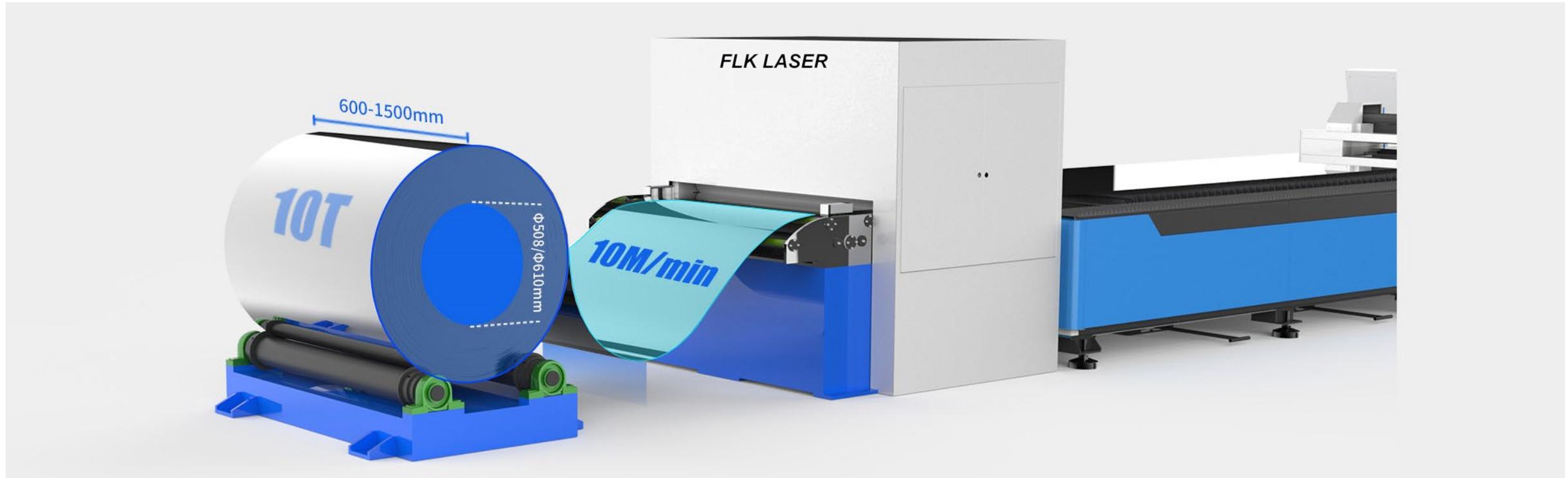
### **FIBER LASER BLANKING SYSTEM**



Laser cutting reduces energy consumption compared to alternatives such as press lines and is more efficient and flexible. The automatic design of the entire process from loading, unwinding, leveling and cutting saves labor, realizes neat cutting of coil materials and improves the utilization of sheet materials.

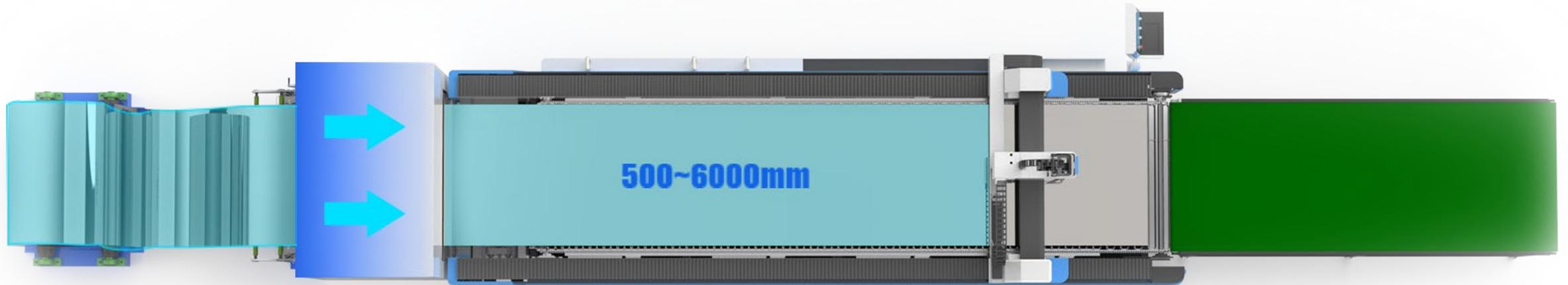
## High work efficiency and cost savings

The loading capacity of the single-support uncoiler is 10T and the feeding speed of the uncoiler is 0-10m/min (stepless speed regulation).



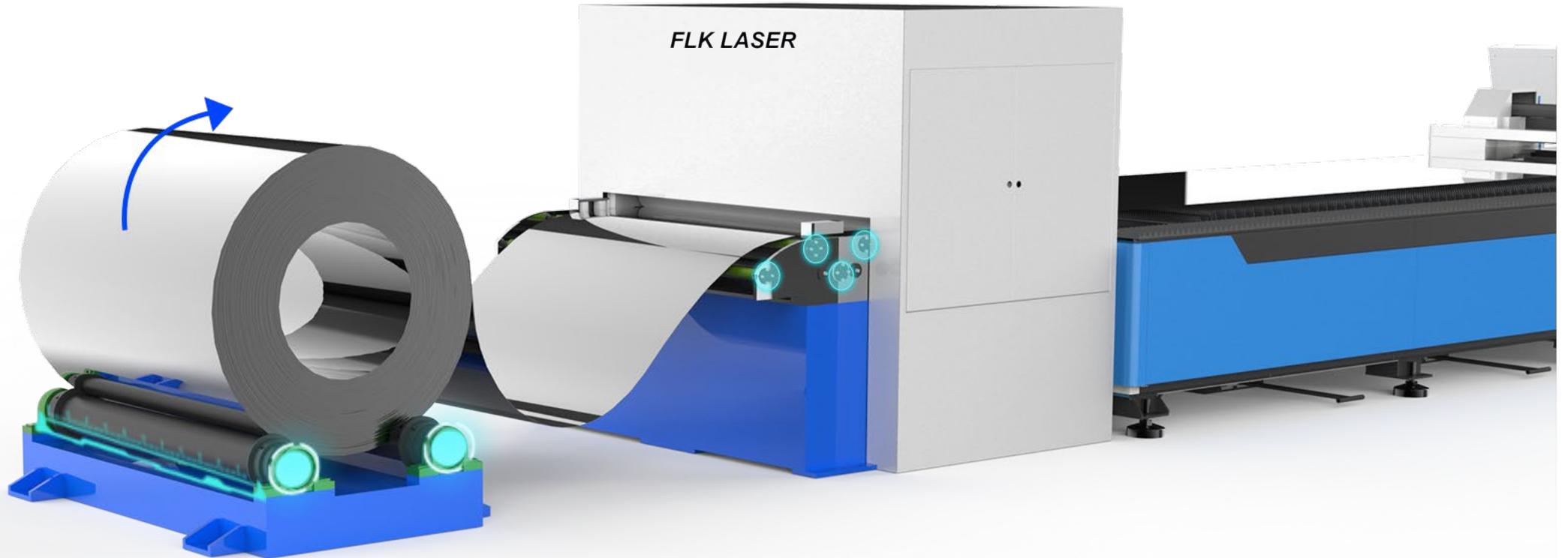
## **Sheet metal leveling, eliminating tensions**

After the coil is unwound, the plate is leveled by the leveling machine, and the tension on the plate during the leveling process is eliminated, so that the plate is smoother and a better cutting experience is obtained.



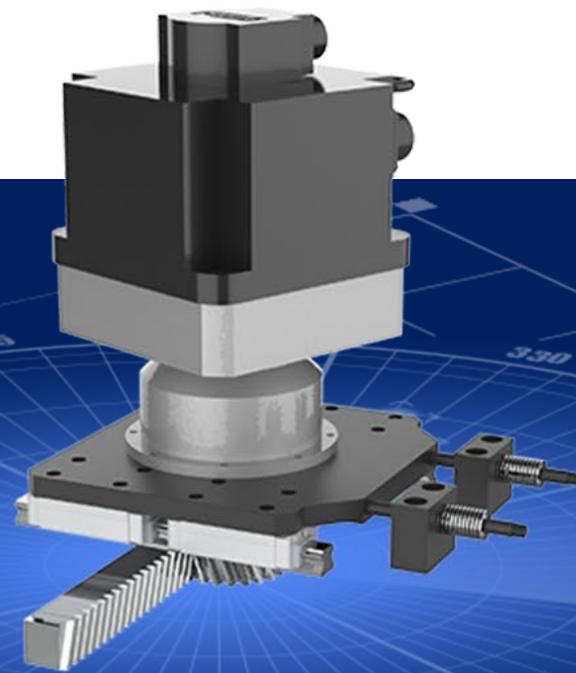
## **High precision positioning and grinding process**

The special screw nut is used to drive the grinding roller to install the sliding block, so as to achieve the positive orientation of the plate, without the need for laser edging and saving the plate cutting time.



## **High precision transmission structure**

Ultra-precision transmission system is adopted



## Operating benefits

Functionally, this model is equivalent to an **uncoiler, leveler, plate shear, punching machine and laser cutting machine**, which means **huge savings**.



Tightening sleeves



Conveying flat belt receiver



Film lamination



Safety grating



Self-made nesting software



<b>Applicable materials</b>	Cold rolled coil, galvanized coil, stainless steel coil, aluminum coil
<b>Working area (mm)</b>	3000*1500/4000*2000/6000*1500
<b>Working Area (inches)</b>	118*59/157*79/236*59
<b>Laser power</b>	1kw/1.5kw/2kw/3kw/4kw
<b>Material thickness</b>	0.5-2mm
<b>Material width</b>	600-1500mm
<b>Maximum outer diameter of material</b>	Φ1500mm
<b>Maximum coil weight</b>	10T
<b>Inner diameter of material</b>	Φ508/Φ610mm
<b>Feeding accuracy</b>	±0.5mm (Calculated per 1000mm)
<b>Feed rate</b>	0-10M/min (continuous speed regulation)

# Accessible Models Blanking line (laser cutting)

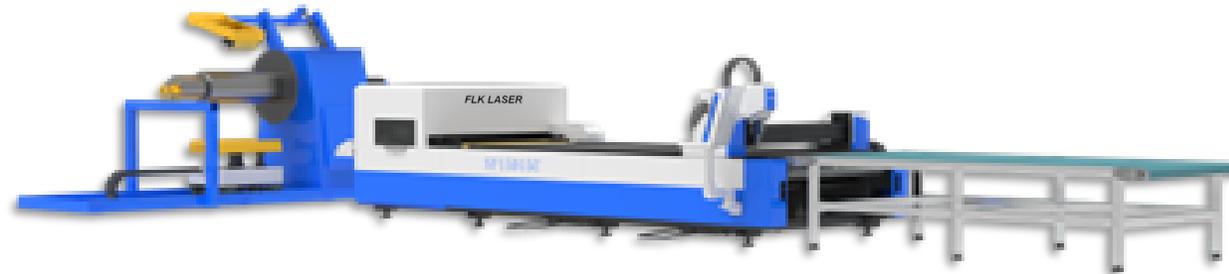
Automation from unwinding, leveling, feeding, cutting to unloading

**C - Series**

**Thickness of sheet metal coil:** 0.6-1.5 mm

**Work area:** 3000\*1500 mm

- ☑ Suitable for cutting thin sheets in its open style structure
- ☑ Sheet metal leveling and cutting unit as one, to reduce its occupied area
- ☑ Sheet metal rectification in real time, ensuring cutting precision
- ☑ Minimize auxiliary gas consumption
- ☑ No need for custom-cut steel plates, saving purchasing costs



Main parameters		15015C
Unwinding and leveling unit	Sheet metal coil size (L*W, mm)	3000*1500
	Thickness of sheet metal coil, mm	0.6-1.5
	Maximum inner and outer diameter of sheet metal coil (mm)	Φ508/Φ1400
	Sheet metal coil weight (T)	8
	Maximum feed speed (m/min)	10
	Leveling accuracy (mm <sup>2</sup> )	±2
Laser cutting machine	Laser power (kW)	3
	X/Y axis positioning accuracy (mm)	±0.05
	X/Y axis repositioning accuracy (mm)	±0.02

# Advanced Models Blanking line (laser cutting)

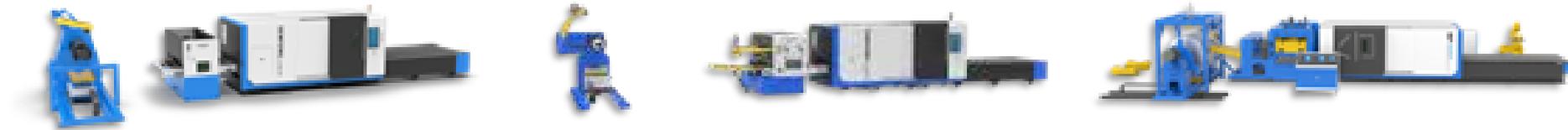
Automation from unwinding, leveling, feeding, cutting to unloading

**CH - Series**

**Thickness of sheet metal coil:** 0.6-14 mm

**Work area:** 6000\*2000 mm

- ☑ Suitable for large format thick/heavy plate coils and standard thin format coils
- ☑ Suitable for large format thick/heavy plate coils and standard thin format coils
- ☑ Cutting synchronized with the loading; one worker can control more than one machine at a time
- ☑ Integrated automatic nesting and composition software, ensuring minimum waste
- ☑ Protection for operators and machines by using safety control devices



Main parameters		1502CH	1503CH	1504CH
Unwinding and leveling unit	Sheet metal coil size (L*W*T, mm)	3000*1500*2 4000*1500*2	3000*1500*3	6000*2000
	Thickness of sheet metal coil, mm	0.6-2	0.8-3	4-14
	Maximum inner and outer diameter of sheet metal coil (mm)	Φ508/Φ1400	Φ508/Φ1450	Φ610-762/Φ2000
	Sheet metal coil weight (T)	8-10	10	30
	Maximum feed speed (m/min)	10	10	10
	Leveling accuracy (mm <sup>2</sup> )	±1.5	±1.5	±1.5
Laser cutting machine	Laser power (kW)	3-6	1.5-6	12
	Working area (L*W, mm)	3000*1500 4000*1500	3000*1500	6000*2000
	X/Y axis positioning accuracy (mm)	±0.05	±0.05	±0.05
	X/Y axis repositioning accuracy (mm)	±0.02	±0.02	±0.02

# Special models for aluminum coils

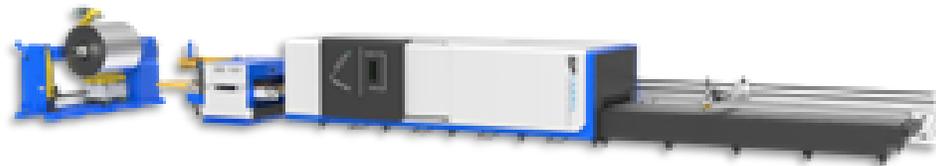
## Blanking line (laser cutting)

Automation from unwinding, leveling, feeding, cutting to unloading

**CLH - Series**

**Thickness of sheet metal coil:** 0.6-3mm

**Work area:** 6000\*1850 mm



- ✓ A sharp weapon for cutting aluminum coils and other high reflectivity materials
- ✓ Double sets of developers, feeders, beams, cutting heads and laser generators, doubling the total efficiency
- ✓ Fully enclosed structure + zone ventilation device + safety monitoring system, for your safe and smoke-free work.
- ✓ Complete automation from loading to unloading, reducing labor.
- ✓ Patented blade runout rectification device to prevent blade scratches and maintain high cutting precision

Main parameters		1503CH	1803CH
Unwinding and leveling unit	Sheet metal coil size (L*W, mm)	3000*1500	6000*1850
	Thickness of sheet metal coil, mm	0.8-3	0.6-3
	Maximum inner and outer diameter of sheet metal coil (mm)	Φ508/Φ1400	Φ508/Φ1500-1800
	Sheet metal coil weight (T)	10	15-20
	Maximum feed speed (m/min)	10	10-30
	Leveling accuracy (mm <sup>2</sup> )	±1.5	±1.5-2
Laser cutting machine	Laser power (kW)	6	6
	X/Y axis positioning accuracy (mm)	±0.05	±0.05
	X/Y axis repositioning accuracy (mm)	±0.02	±0.02/±0.05
	Power	Three-phase 380V, 50Hz/60Hz (custom made)	



## 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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