

LASER SMART EQUIPMENT

2D laser / 3D laser / Laser tube cutting / Laser welding / Automation System+

**Yawei** 亚威

Stock Code 002559

**TO BE THE WORLD'S LEADING HIGH-END EQUIPMENT
AND SMART MANUFACTURING SOLUTION PROVIDER**

Jiangsu Yawei Machine Tool Co., Ltd. (stock code 002559) is a well-known supplier of high-end equipment and intelligent manufacturing solutions. Founded in 1956, Yawei is located in Yangzhou City, Jiangsu Province. In 2011, Yawei was listed on the Shenzhen Stock Exchange market, Yawei provides sheet metal forming machines, laser processing equipment, industrial robots, automatic production lines, factory management software, and intelligent workshops for well-known companies in the automotive, transportation, aviation, sheet metal, power and electrical, elevators, and home appliances industries. At present, Yawei has total assets of 3.7 billion yuan, net assets of 1.7 billion yuan, covers an area of 400,000 M², more than 1,700 employees, 60 domestic sales and service offices, and more than 50 oversea soleagents being in charge of the Yawei sales and service with zero distance to customers.



CATALOGUE

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Company Introduction

With more than 65 years of industry experience and continuous development and extension, Yawei has full coverage of laser processing in cutting, pipe cutting, welding, cladding, ultra-precision micro-nano laser processing and other fields. The equipment product system has an annual production capacity of more than 1,000 sets of high-end and high-power laser cutting, laser welding equipment and automation systems, for middle and high-end customers.



- After years of R&D and innovation, it integrates the most cutting-edge laser application technology in the world, and the perfect combination of performance and value
- Better structural design, higher efficiency, equipped with world-leading fiber lasers, to meet the needs of customers in different industries
- More than 65 years of experience in machine tool manufacturing, modern lean production management, strategic cooperation with international first-class suppliers, ensure long-term reliable operation of the machine, and lasting accuracy

- Brand-new appearance, modular design, intelligent host and automation solutions, full life cycle health management, relieve all the worries

2007

Independent research and develop of CO₂ laser cutting machine to achieve sales breakthrough

2013

In cooperation with Italian Prima-Power, developing the industry-leading high-power laser cutting machine

2014

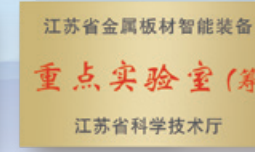
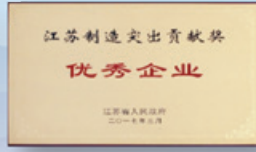
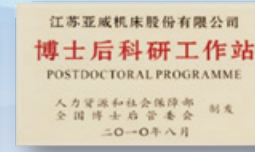
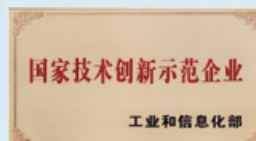
Acquired Wuxi CKY Laser Equipment Co., Ltd. with RMB 140 million to deploy 3D laser business

2016

Set up a research and development center in cooperation with Zhejiang University of Technology to expand the application of 3D robotic cutting, high-power laser welding and cladding

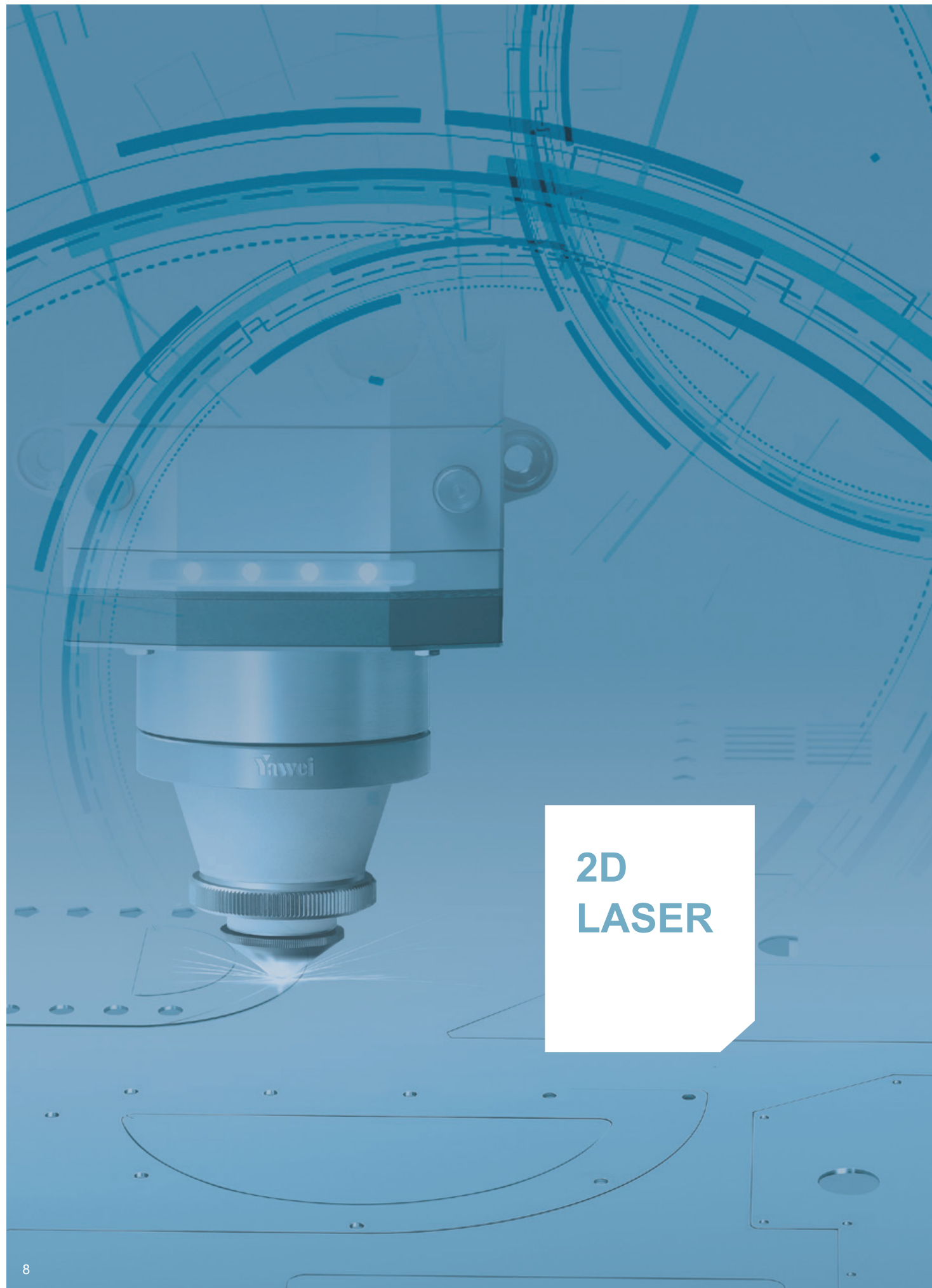
2019

Strategically invested in LIS, a listed South Korean company, and entered the precision laser equipment market for flexible panel, semiconductor, and new energy industries



- National Postdoctoral Research Station
- Provincial Demonstration Enterprise for Integration of Industrialization
- National Advanced Quality Unit
- Provincial Demonstration Digital Workshop
- National May 1st Labor Certificate
- National Technological Innovation Demonstration Enterprise
- Evaluation of the National Integration of Industrialization and Industrialization Management System
- Provincial Key Laboratory of Sheet Metal Intelligent Equipment
- Provincial Sheet Metal Forming Equipment Engineering Center





INHERIT THE CLASSICS

HLE Series

Fiber Laser Cutting Machine



01 High performance and low cost

Quick response to control, saving gas, electricity and cost

German original BECKHOFF CNC system



03 Become rock-firm

Gantry double-drive high-rigidity bed structure, annealing and stress-relieving operation to ensure efficient and stable running

02 Top quality

Using bright surface cutting technology, fast cutting speed, small slope, low roughness

04 Handy operation

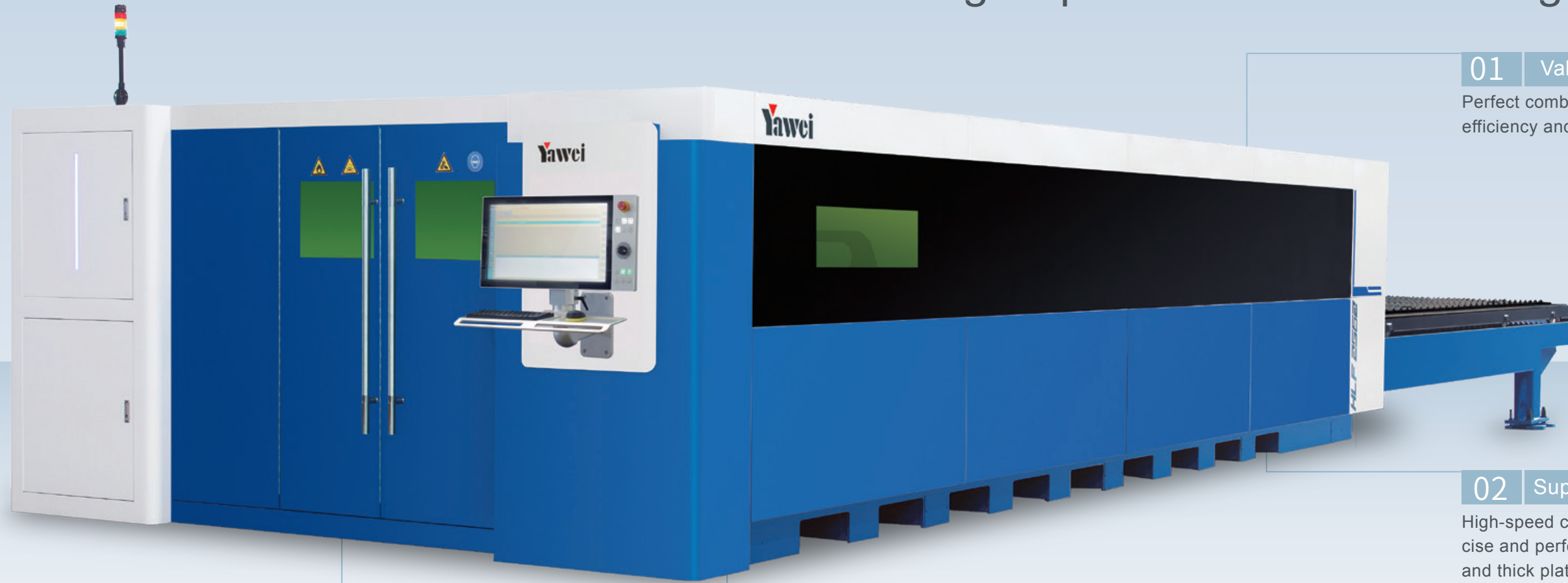
Humanized operation interface and cutting parameter library are fully upgraded

Key technical parameters

Item	Unit	HLE-1530	HLE-1560	HLE-2040	HLE-2060	HLE-2560	HLE-2580	HLE-25100	HLE-25120	
Cutting range	mm	3000×1500	6000×1500	4000×2000	6000×2000	6000×2500	8000×2500	10000×2500	12000×2500	
X axis stroke	mm	3040	6040	4040	6040	6040	8040	10040	12040	
Y axis stroke	mm	1520	1520	2020	2020	2520	2520	2520	2520	
Z axis stroke	mm	240	240	240	240	300	300	300	300	
X-Y maximum trajectory speed	m/min	140	140	140	140	140	140	140	140	
X / Y maximum acceleration	m/s ²	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	
Positioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	
Repositioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	
Maximum load of worktable	Kg	700	700	1400	2000	3000	4000	5000	6000	
Machine layout dimension	mm	8700×4800×2150	15500×4800×2150	11000×5000×2150	15500×5000×2150	15500×5500×2150	20000×5500×2150	23500×5500×2150	28000×5500×2150	
Machine weight	Kg	8000	12000	10000	14000	20000	25500	30000	36000	
Laser generator power	Kw	1 / 1.5 / 2 / 3 / 4 / 6					2 / 3 / 4 / 6 / 8 / 10 / 12 / 15 / 20 / 30			

HLF Series

High-Speed Fiber Laser Cutting Machine



01 Value experience

Perfect combination of production efficiency and performance

02 Superb craftsmanship

High-speed cutting of thin plates, precise and perfect piercing of medium and thick plates

03 Smart guard

Intelligent operation interface for equipment status monitoring and comprehensive upgrade of cutting expert parameter library

04 Unparalleled technology

Nano-level interpolation, independent CNC control technology, to ensure extremely fast response of each axis

Strongest control system SIEMENS 840DSL



Key technical parameters

Item	Unit	HLF-1530	HLF-1560	HLF-2040	HLF-2060	HLF-2560	HLF-2580	HLF-25100	HLF-25120
Cutting range	mm	3000×1500	6000×1500	4000×2000	6000×2000	6000×2500	8000×2500	10000×2500	12000×2500
X axis stroke	mm	3040	6040	4040	6040	6040	8040	10040	12040
Y axis stroke	mm	1520	1520	2020	2020	2520	2520	2520	2520
Z axis stroke	mm	300	120	300	300	300	300	300	300
X-Y maximum trajectory speed	m/min	170	170	170	170	140	140	140	140
X / Y maximum acceleration	m/s ²	2.0G	2.0G	2.0G	2.0G	1.8G	1.8G	1.8G	1.8G
Positioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03
Repositioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Maximum load of worktable	Kg	1000	1000	1800	2800	3500	4800	6000	7000
Machine layout dimension	mm	9300×4800×2150	9400×4800×2150	11500×5000×2150	16000×5000×2150	16000×5500×2150	20500×5500×2150	24500×5500×2150	28500×5500×2150
Machine weight	Kg	9500	14000	12000	17000	20000	25500	30000	36500
Laser generator power	Kw	3 / 4 / 6 / 8 / 10 / 12 / 15 / 20 / 30							

THE BEAUTY
OF ULTRA-FAST

HLX Series

Ultra-Fast Fiber Laser Cutting Machine



Strongest control system
SIEMENS 840DSL



01 Pursue excellence

A new generation of extremely fast fiber laser cutting machine matches the international level

02 Precision cutting

Cutting efficiency and precision of complex workpiece beyond imagination

03 Craftsmanship

The bed and beam structure, control and transmission system, and laser processing technology are significantly improved

04 All expects available

With job list function, remote diagnosis service, health protection system, inter-connection with the production management center

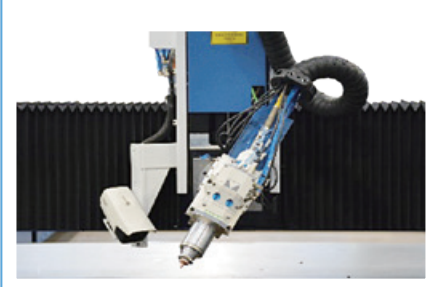
Key technical parameters

Item	Unit	HLX-1530	HLX-1560	HLX-2040	HLX-2060	HLX-2560
Cutting range	mm	3000×1500	6000×1500	4000×2000	6000×2000	6000×2500
X axis stroke	mm	3040	6040	4040	6040	6040
Y axis stroke	mm	1520	1520	2020	2020	2520
Z axis stroke	mm	120	120	120	120	120
X-Y maximum trajectory speed	m/min	200	200	200	200	170
X / Y maximum acceleration	m/s ²	2.8G	2.8G	2.8G	2.8G	2.5G
Positioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03
Repositioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02
Maximum load of worktable	Kg	1000	1000	1800	2800	3500
Machine layout dimension	mm	10000×4800×2200	16000×4800×2200	12000×5000×2200	16000×5000×2200	16000×5500×2200
Machine weight	Kg	11000	16000	14500	20000	22000
Laser generator power	Kw	4 / 6 / 8 / 10 / 12 / 15 / 20				

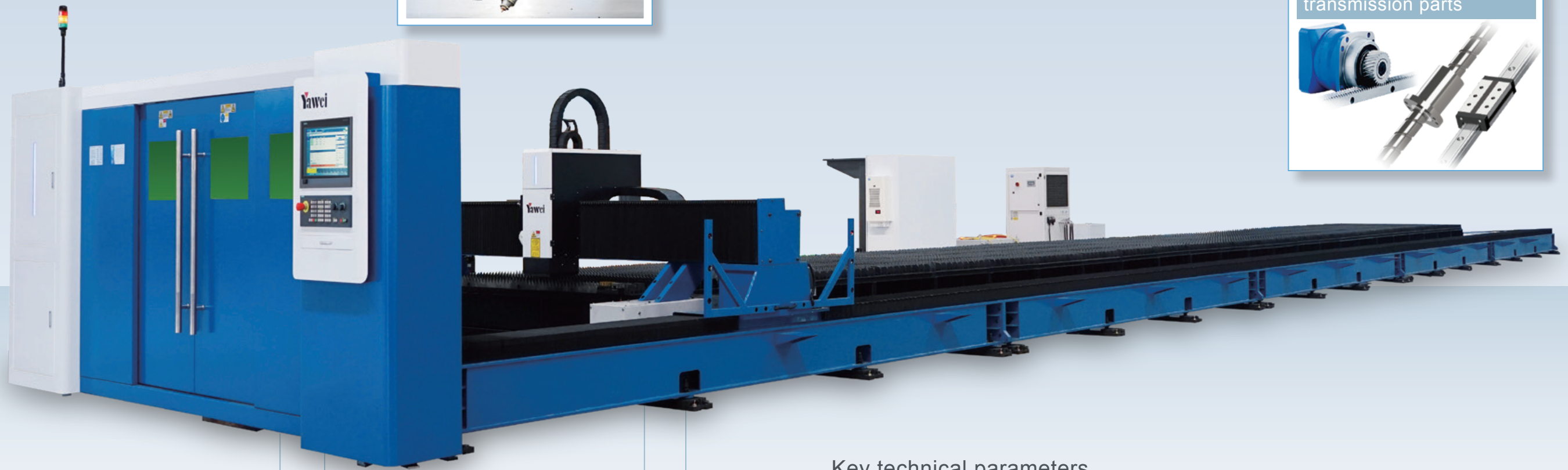
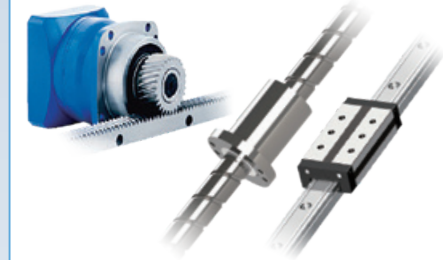
HLG Series

Landing Gantry Laser Cutting Machine

±45° bevel cutting (optional)



High precision
transmission parts



01 Professional customization

Handy in processing large-format plates, super long and wide, easy to handle

02 Precision transmission

Ensure the excellent processing accuracy and processing efficiency of the equipment

03 Experience precipitation

The high-rigidity and lightweight beam is designed with low load and can realize efficient cutting. The beam structure has high strength and good stability

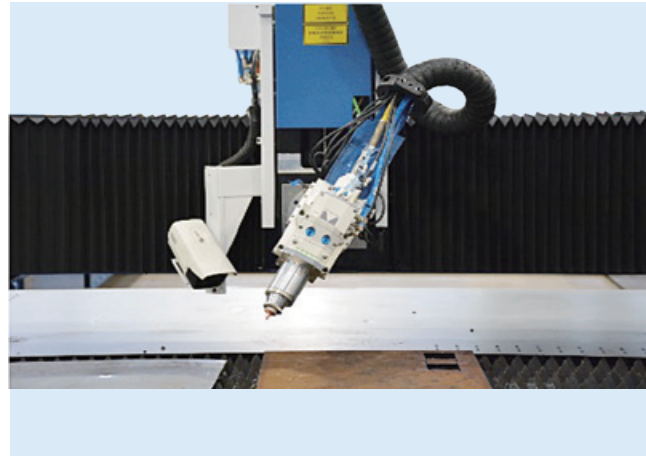
04 Energy saving and environmental protection

Using follow-up dust removal duct, effectively reducing dust pollution in the processing area

Key technical parameters

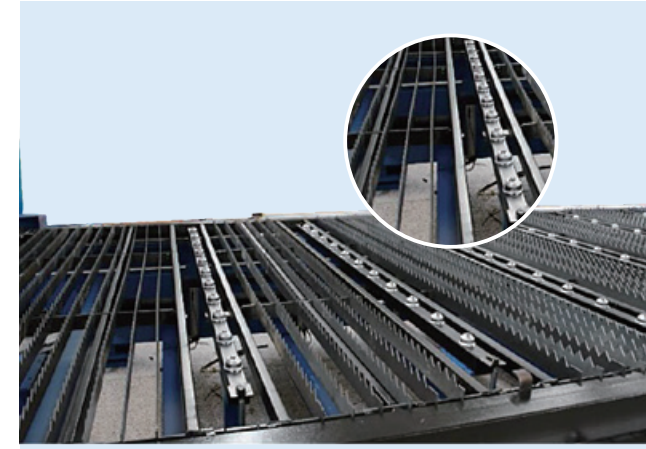
Item	Unit	HLG-25120	HLG-30240	Other customizable machine
Cutting range	mm	12000x2500	24000x3000	(8000-50000) × (2500-5000)
X axis stroke	mm	12040	24040	8040-50040
Y axis stroke	mm	2520	3020	2520-5020
Z axis stroke	mm	180	180	180
X-Y maximum trajectory speed	m/min	90	90	90
X / Y maximum acceleration	m/s ²	1.0G	1.0G	1.0G
Positioning accuracy	mm/10m	±0.1	±0.1	±0.1
Repositioning accuracy	mm	±0.06	±0.06	±0.06
Maximum load of worktable	Kg	8000	20000	Customized according to the specific processing size
Machine layout dimension	mm	17000x6500x2200	31500x7000x2200	/
Machine weight	Kg	18000	40000	/
Laser generator power	Kw	6 / 8 / 10 / 12 / 15 / 20 / 30		

DIVERSIFIED CONFIGURATION AND FLEXIBLE COLLOCATION



Bevel Cutting (Option)

- Achieve $\pm 45^\circ$ bevel cutting
- Welding can be done directly after cutting, saving time and labor cost



Pneumatic Sheet Support Device (Option)

- Convenient for loading and unloading, and reduce scratches, equipped with pneumatic jacking device
- Reduce the scratches on the surface of aluminum plate and stainless steel plate, a steel ball to be equipped on the top of jacking rod



Hydraulic Lifting System (Option)

- Synchronous motor to achieve hydraulic synchronous lifting, with large load and low failure
- Shorter Z-axis travel, to meet high speed cutting
- Zone dust exhausting system with better effect



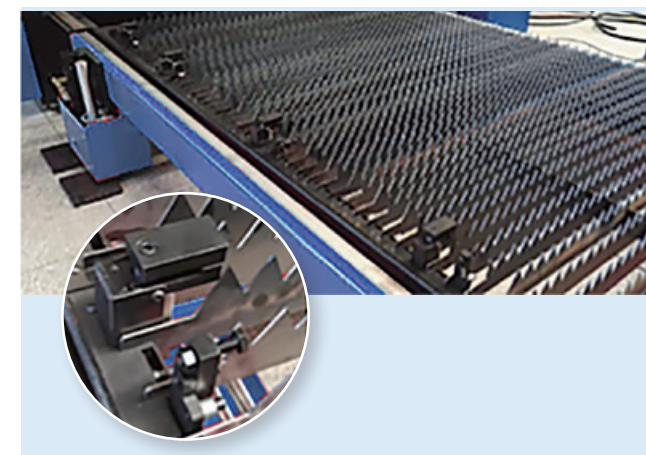
Movable Operation Station (Option)

- Simplify labelling process, easy and quick operation
- Front and rear dual channel control screen, satisfying efficient cutting experience



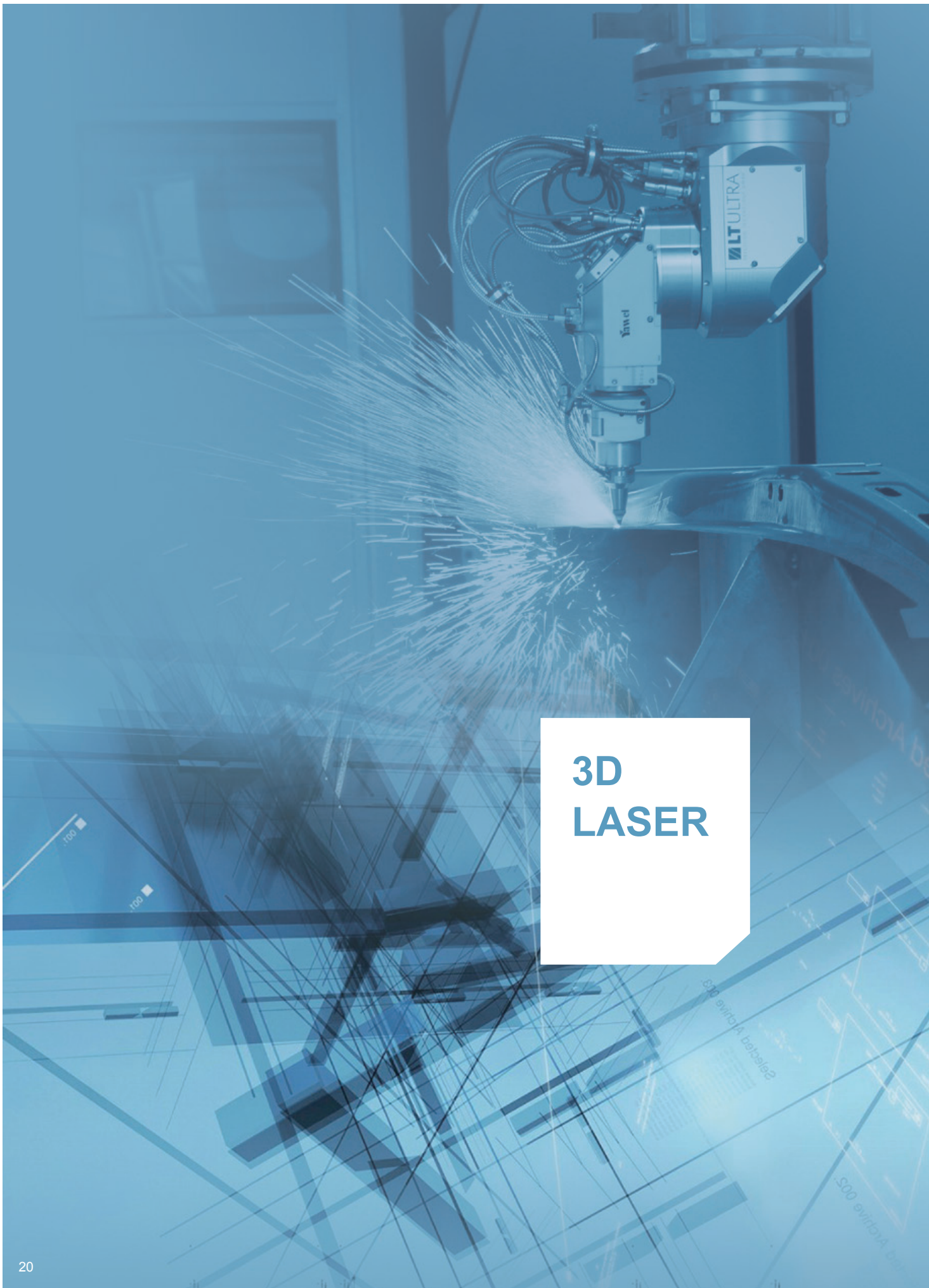
Secondary Positioning by Optical Eye (Option)

- Fast positioning for semi-finished product, precise secondary cutting
- Higher efficiency of automatic edge finding, better accuracy more intelligent
- Good leakproofness prevents splash, stable and reliable, moduling installation structure.



Pneumatic Clamps And Side Positioning (Option)

- Avoid the influence of auxiliary gas on the origin of plate positioning in thin plate processing
- Reduce the movement of plate with film during cutting, when the film is blown up by auxiliary gas



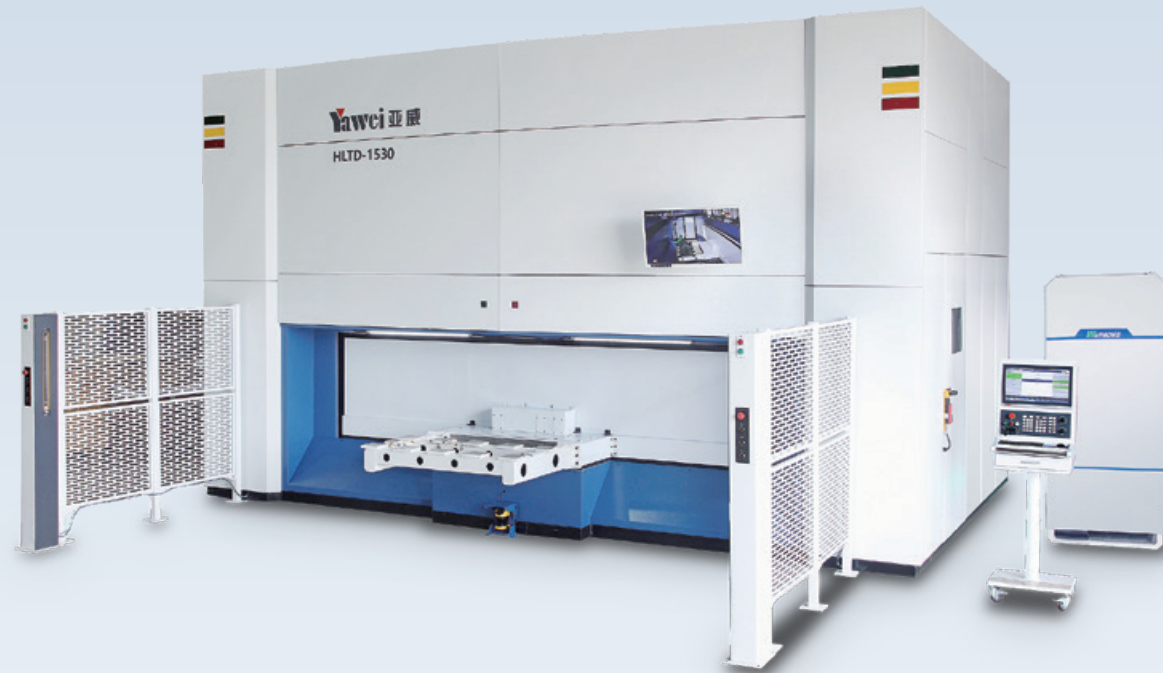
**3D
LASER**



**3D Five-Axis
Laser Cutting Machine**

THE PILLARS OF A GREAT POWER

3D five-axis laser cutting machine is a laser processing equipment designed for 3D metal workpieces. Specialized in cutting and trimming of hot formed parts, with the advantage of high accuracy, fast speed, stable and reliable performance, and equipped with high-performance positioners, 3D five-axis laser cutting machine can meet the industry's High efficiency requirements.



- High rigidity cantilevered cantilever structure, compact structure, specially used for batch cutting of hot formed parts
- Machine safety protection complies with CE international safety standards
- HLTD series processing size is 3000mm × 1500mm, 4000mm × 2000mm
- High-end configuration combination, performance can equal to imported equipment, less cost investment, lower maintenance costs

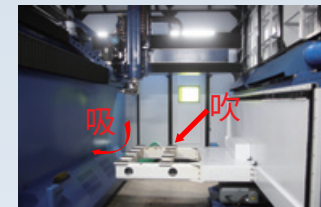
3D Five-Axis Laser Cutting Machine



- 3D laser cutting head from LTULTRA Germany, advanced technology, reliable quality
- The 3D laser machining head has a 360 ° reliable multi-level anti-collision protection system



- Adopt cantilevered frame, compact and open
- Strong integrity, good rigidity and small area coverage



- Double-channel dust removal design, remove the harmful gas and dust generated during the process with maximum efficiency

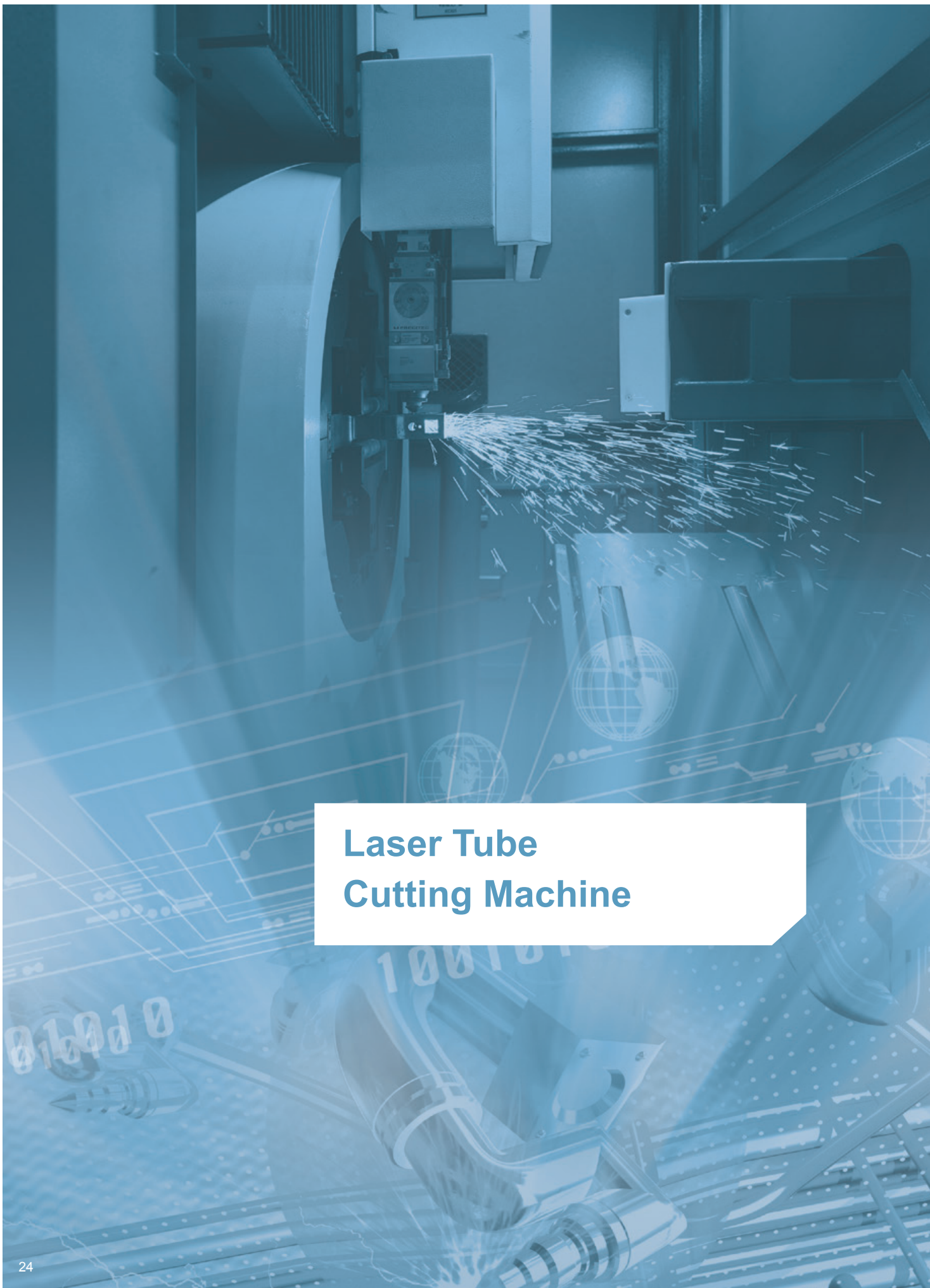
Application field



Hot forming part of automobile

Technical Specification

Items		Unit	Value
Stroke	X axis stroke	mm	3000
	Y axis stroke	mm	1500
	Z axis stroke	mm	650
	Rotating angle of C axis	°	N*360
	Rotating angle of A axis	°	±135
	Rotating angle of Q axis	mm	±10
Speed	X / Y / Z axis max speed	m/min	100
	X / Y / Z axis max acceleration	g	1.0
	C / A axis maximum rotation speed	r/min	120 / 120
	C / A axis maximum rotation acceleration	rad/s ²	60
Precision	X / Y / Z axis positioning accuracy	mm	±0.05
	X / Y / Z axis positioning repeat accuracy	mm	0.03
	C / A axis positioning accuracy	°	0.015
	C / A axis repeat positioning accuracy	°	0.005



**Laser Tube
Cutting Machine**



YLT series
Automatic Laser Tube
Cutting Machine

YLP series
Automatic Laser Tube
Cutting Machine

DERIVED FROM INNOVATION

01 Intelligent chuck

Advanced chuck control system, auto adjustment of clamping force

02 Beyond the limits

Large processing range, beyond all kinds of traditional tube processing methods

03 Digital control

Bus technology real-time control, real time precision compensation, Follow-up control integrated, can cut quickly

YLT Series

Automatic Laser Tube Cutting Machine

04 Safety and environment protection

Light curtain, real-time protection, Double dust exhausting design



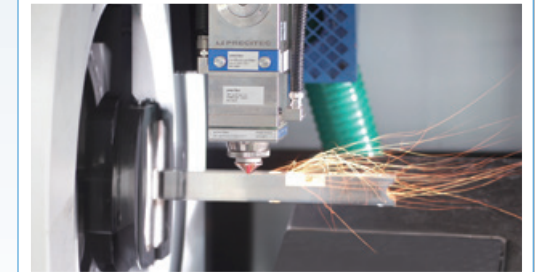
Key technical parameters

Item	Unit	YLT-6020	YLT-8020	YLT-6025	YLT-8025	YLT-10025	YLT-6040	YLT-10040	YLT-12040
Tube processing range	mm	6200×Φ20-Φ200 6200×□20-□140	8200×Φ20-Φ200 8200×□20-□140	6200×Φ20-Φ254 6200×□20-□200	8200×Φ20-Φ254 8200×□20-□200	10200×Φ20-Φ254 10200×□20-□200	6200×Φ20-Φ400 6200×□20-□280	10200×Φ20-Φ400 10200×□20-□280	12200×Φ20-Φ400 12200×□20-□280
X axis stroke	mm	6800	8800	6800	8800	10800	6800	10800	12800
Y axis stroke	mm	200	200	250	250	250	400	400	400
Z axis stroke	mm	240	240	240	240	240	360	360	360
A, B axis stroke		Unlimited							
X / Y maximum positioning speed	m/min	100	100	120	120	120	80	80	80
A / B maximum rotate speed	r/min	120	120	120	120	120	80	80	80
X / Y maximum acceleration	m/s ²	1.2G	1.2G	1.2G	1.2G	1.2G	1.0G	1.0G	1.0G
Positioning accuracy	mm	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
Repositioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03
Tube maximum weight	Kg	120	120	300	300	300	400	600	600
Machine layout dimension	mm	13000×5500×3000	15000×5500×3000	13000×5500×3000	15000×5500×3000	17000×5500×3000	13300×5500×3000	17300×5500×3000	19300×5500×3000
Laser generator power	Kw	2 / 3 / 4 / 6							

Servo support: the guarantee of high efficiency and high quality cutting



Accurate and efficient: perfect embodiment of dynamic performance



YLP Series

Automatic Laser Tube Cutting Machine



01 Strong control system

SIEMENS 840DSL Germany original import, Independent CNC control

02 All Power

Powerful development platform, optional bevel cutting, welding line detection, hot melt drilling and other functions

03 Fast response

Nanoscale interpolation ensures high precision and microsecond accuracy response and guarantee high efficiency

04 Digital intelligent

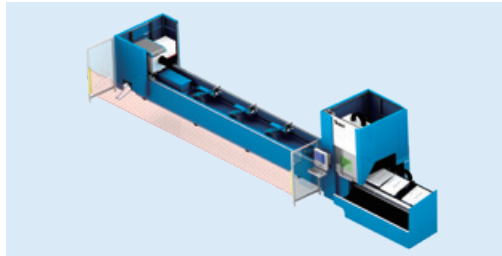
Support upstream data interaction, real-time control of production schedule

Key technical parameters

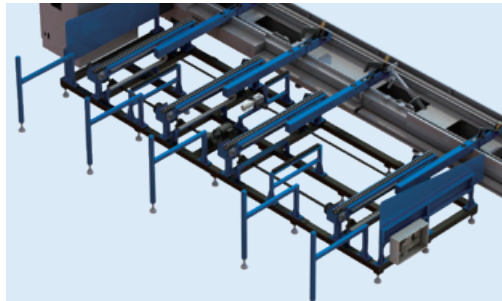
Item	Unit	YLP-6020	YLP-8020	YLP-6025	YLP-8025	YLP-10025
Tube processing range	mm	6200×Φ20-Φ200 6200×□20-□140	8200×Φ20-Φ200 8200×□20-□140	6200×Φ20-Φ254 6200×□20-□200	8200×Φ20-Φ254 8200×□20-□200	10200×Φ20-Φ254 10200×□20-□200
X axis stroke	mm	6800	8800	6800	8800	10800
Y axis stroke	mm	200	200	250	250	250
Z axis stroke	mm	240	240	240	240	240
A, B axis stroke		Unlimited				
X / Y maximum positioning speed	m/min	120	120	120	120	120
A / B maximum rotate speed	r/min	120	120	120	120	120
X / Y maximum acceleration	m/s ²	1.2G	1.2G	1.2G	1.2G	1.2G
Positioning accuracy	mm	±0.05	±0.05	±0.05	±0.05	±0.05
Repositioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03
Tube maximum weight	Kg	120	120	300	300	300
Machine layout dimension	mm	13000×5500×3000	15000×5500×3000	13000×5500×3000	15000×5500×3000	17000×5500×3000
Laser generator power	Kw	2 / 3 / 4 / 6				

BE FLEXIBLE WITH WHAT YOU WANT

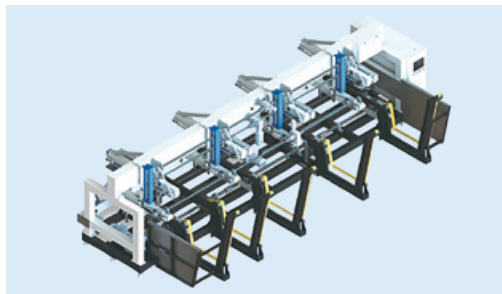
Loading system



Manual loading
Flexible and convenient, cost-effective choice

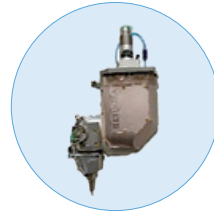


Semi-auto loading
Economically adaptable, easy to operate



Auto loading
Batch cutting, realize automated production

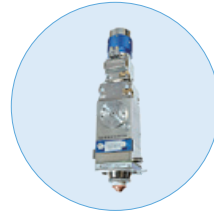
Laser cutting head



Bevel cutting

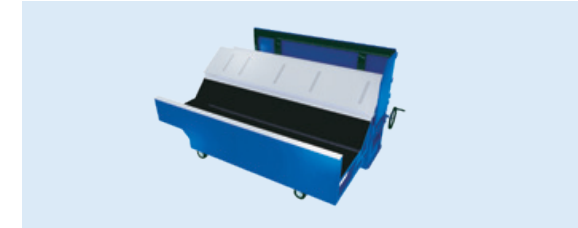


I Shaped steel special-shaped tube cutting

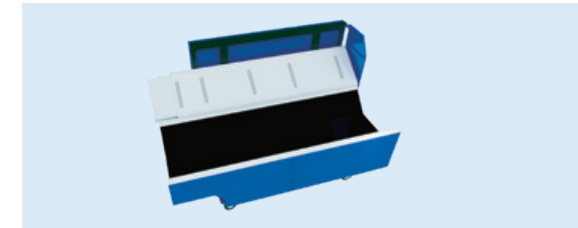


Round tube, square tube, channel steel cutting

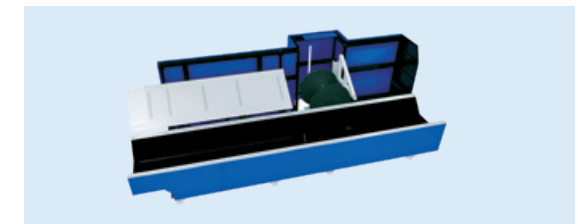
Unloading system



2 meters fixed unloading
It is economical and applicable for specific processing range



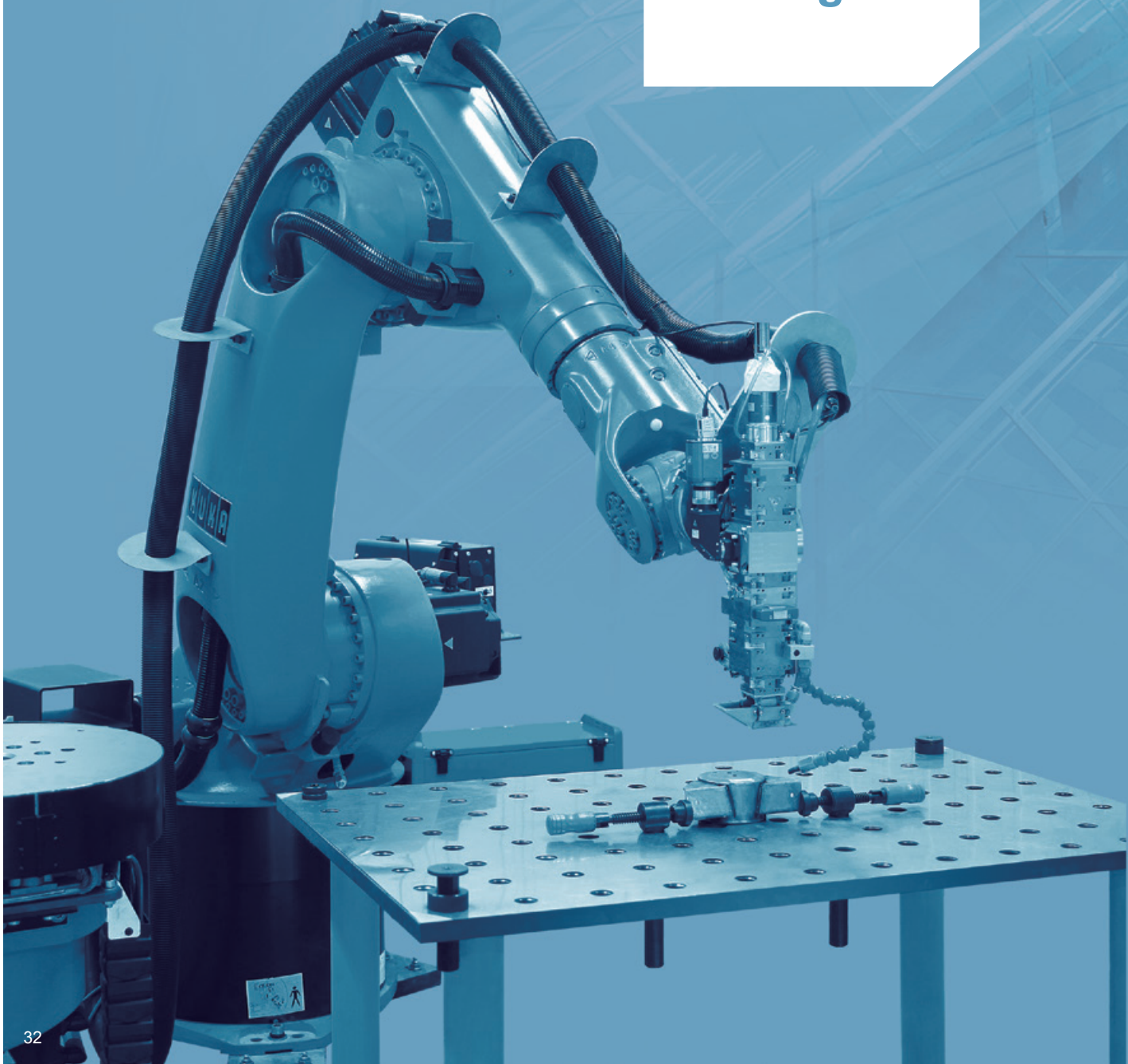
2 meters floating unloading
Customized to meet high precision cutting



4 meters floating unloading
To meet the wider application demands



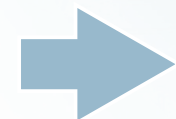
Fiber Laser
Welding



YLRW series
Robot Laser Welding
unit



HLTW series
3D Five-axis Laser
Welding machine



SYSTEM INTEGRATION

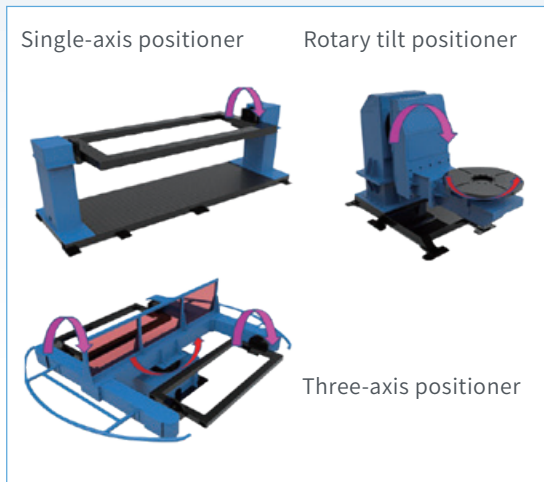
01 Flexible manipulator

Choose KUKA, ABB, YASKAWA, FANUC and other high-precision robot according to user's requirements



02 Matched positioner

According to different requirements of material, thickness, welding seam, matching self-melting, wire filling, swing, vibration mirror, composite welding head



YLRW Series Robot Laser Welding System



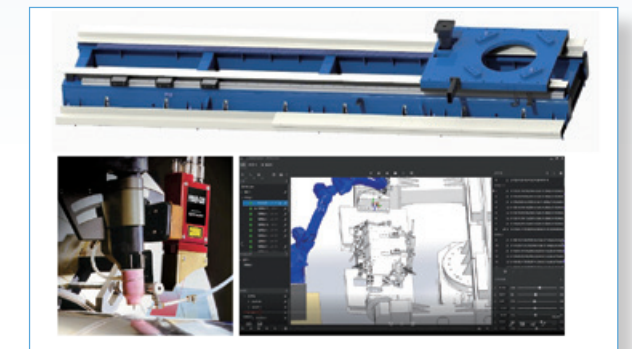
03 Customize welding head

Single-axis, double-axis, three-axis or multi-axis welding positioners can be selected according to the welding requirements of user



04 Abundant optional functions

Optional with linear moving axis, welding seam tracking function, offline programming software, welding protection room and smoke treatment system, easy to deal with complex working condition



Robot Laser Welding System

The robotic laser welding system can be applied to the requirements of sheet metal, kitchenware, cabinets and other industries. It has the characteristics of wide product adaptability and high efficiency; reliable long-term operation and stable precision; modular design, general-purpose spare parts, complete life cycle service, to solve all worries.



Technical Specification

Items		
Laser parameters	Laser source	Fiber cable/Semiconductor
	Laser wavelength	1080/915nm
	Average output power	≤ 6KW
fiber cable	fiber cable core	50/100(standard)/200/400um
	fiber cable length	20/15m
Optical output characteristics	Focus lens	F=200(standard)/250/300mm
	Collimator lens	F=50/75(standard)/100mm
Cooling system	cooling type	water cooling



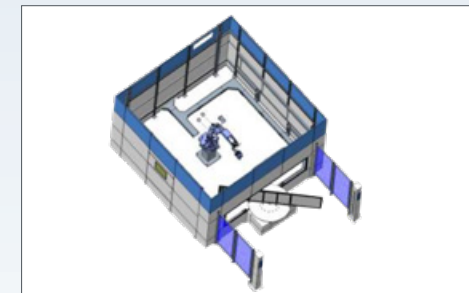
Personalized feeding requirements



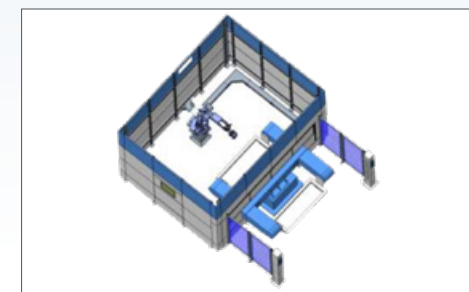
Double-station P-type double-axis positioner



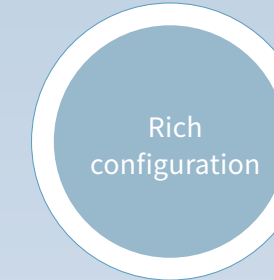
Double-station end-to-end frame type single-axis positioner



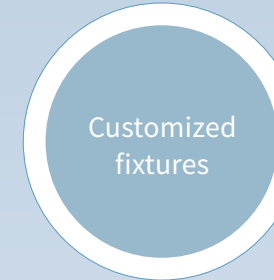
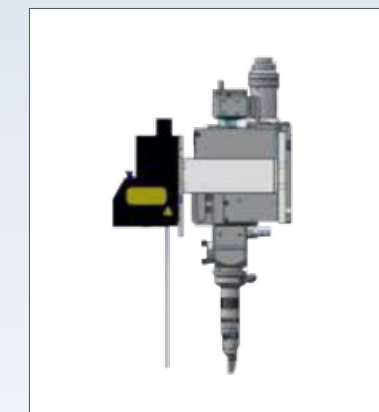
Horizontal single-axis positioner



Horizontal three-axis positioner



Rich configuration



■ **Optional automatic wire feeding device**

Used in the laser welding process to fill the molten pool without preheating the wire equipment

With small size, flexible installation, multiple control methods

Analog value control, serial port, 8pin parallel port, screen control

■ **Optional laser welding seam automatic tracking device**

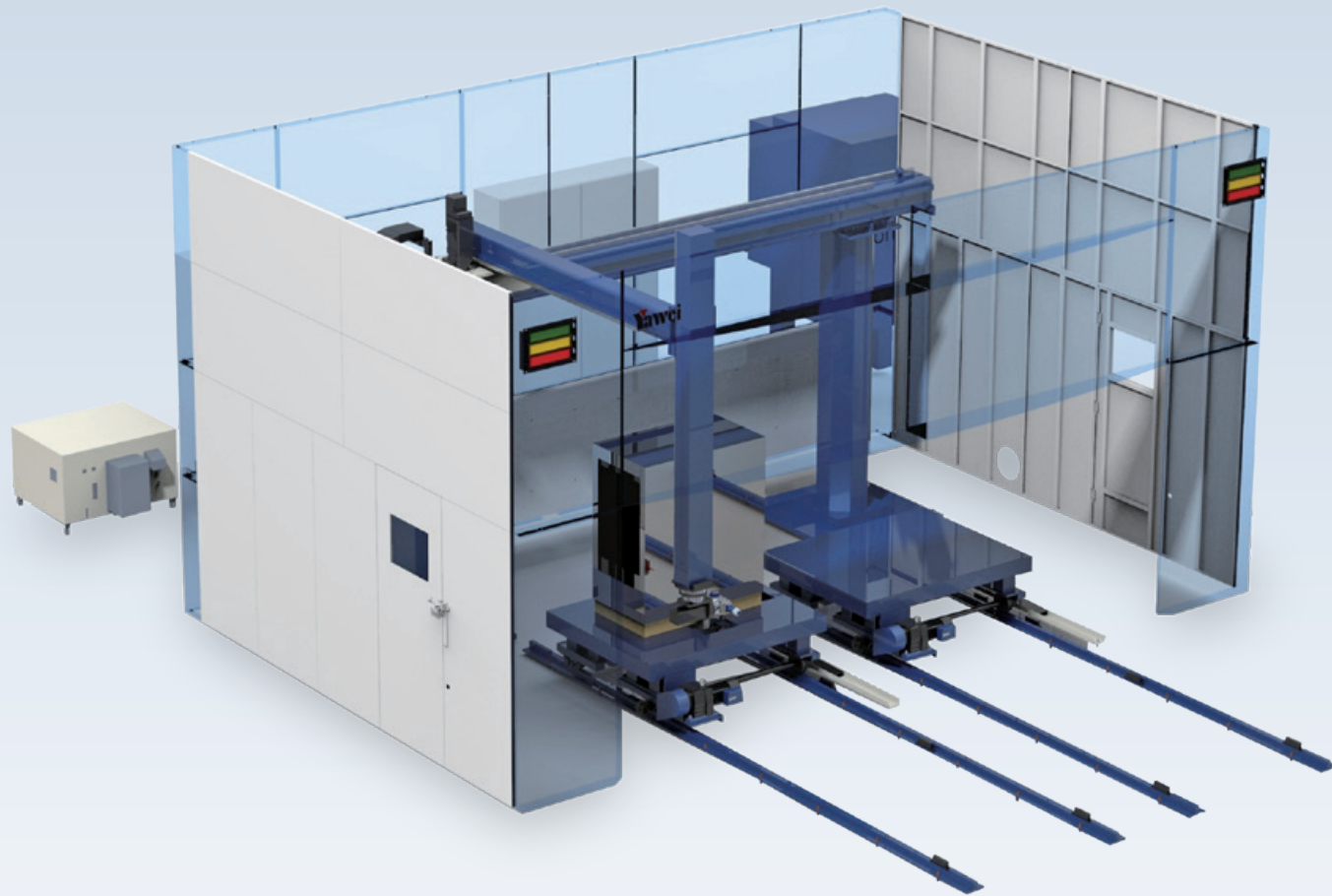
Using lasers, optical sensors and CPU, using the principle of optical propagation and imaging, the position information of each point in the laser scanning area is obtained, and the online real-time detection of common welds is completed through complex program algorithms

■ **Optional laser welding head anti-collision device**

The anti-collision device is to protect the robot's welding head from damage due to the collision. The features of the anti-collision device include: automatic reset, high repeatability, strong torque resistance and rotation moment ability

FREE YOUR HANDS

Five-axis laser welding machine specialized in 3D welding of inflatable cabinet, with the characteristics of wide product adaptability and high efficiency, reliable long-term operation and stable precision, modular design, universal spare parts, lifetime service.



- Machine safety protection complies with CE international safety standards
- The processing size is 4000mm×2000mm, which can be customized
- Installation and disassembly areas are open for easy operation. The welding area is completely closed to ensure the safety of operators
- A remote monitoring camera is installed in the welding processing area to monitor the welding process
- Less cost, easier operation, lower maintenance cost

Five-axis Laser Welding Machine



- Laser welding head original imported from PRECITEC, Germany
- High quality optical system and adjustable shielding gas supply to achieve high welding quality, stable process welding



- Adopt laser source from IPG, the leader, innovator and largest supplier of fiber optic lasers, has developed a new advanced fiber optic laser. Widely used in all kinds of plate and non-ferrous metal processing

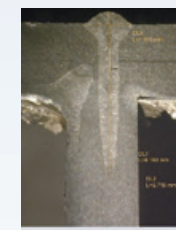


- Adopts SIEMENS 840DSL CNC system from Germany, equipped with a new generation of network architecture original driver and servo motor, independent CNC control. Equipped with the interface of welding parameters library, the laser welding process parameters can be modified in real time in the interface and more intelligent operation functions



- Using the international advanced single gantry linear robot, can achieve long-distance working
- With advanced 2D rotation module, can achieve Five axis linkage machining by welding head

Application field



Technical Specification

项目 Items		Unit	Value
Stroke	X / Y / Z axis stroke	mm	4000 / 2500 / 2000
	Rotating angle of C axis	°	±210
	Rotating angle of A axis	°	720
Speed	X / Y / Z axis max speed	m/s	2.6 / 1.8 / 2.5
	C / A axis maximum rotation speed	°/s	195
	X / Y / Z axis positioning repeat accuracy	mm	±0.02
	C / A axis repeat positioning accuracy	arcmin	1

Automation System+



FMC Series
Laser cutting cell

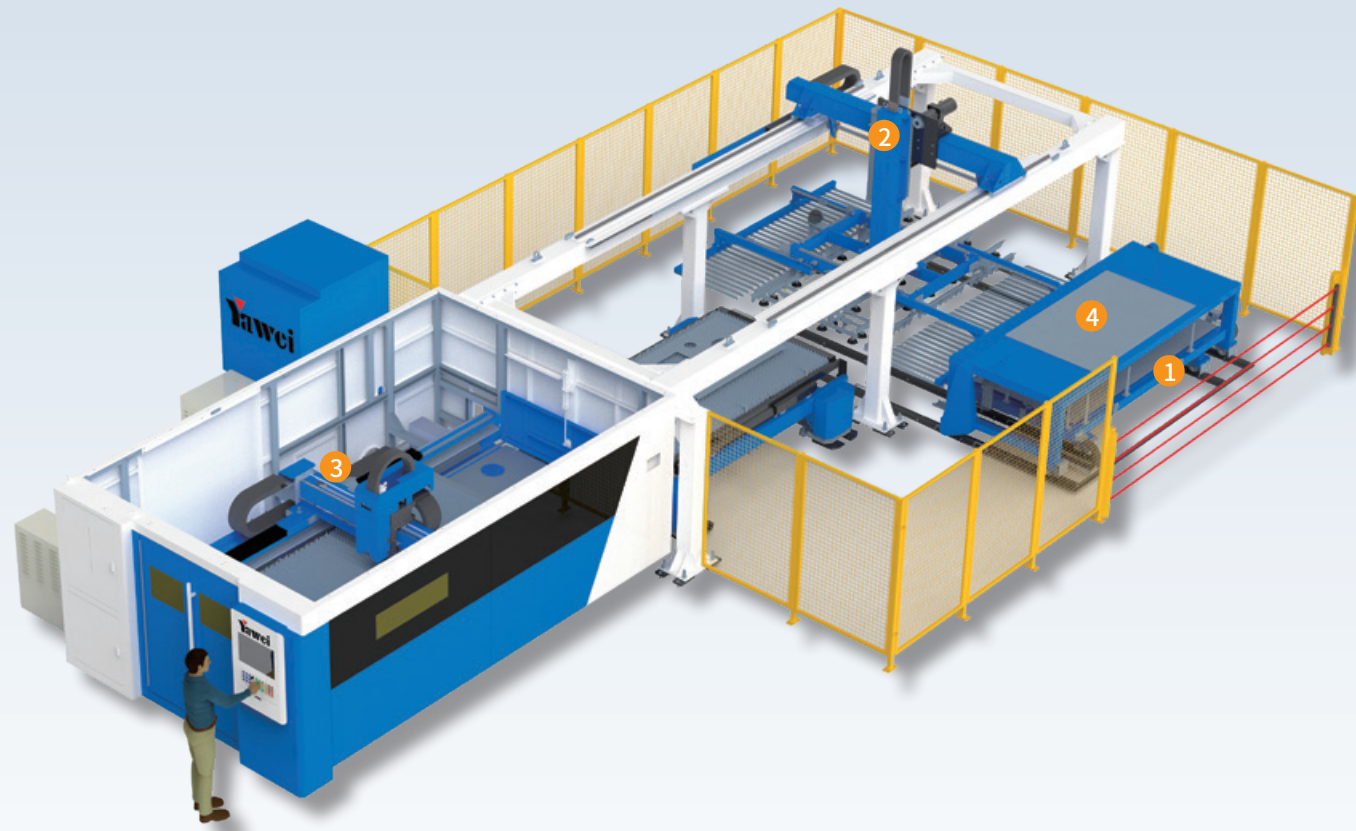


AMS Series
Laser cutting flexible system



Laser Cutting Unit FMC

Yawei laser cutting automation system can be served as the unit of smart factory. Can be linked to the central control ERP/MES system to realize the real-time communication and data sharing, and processing under product plans without man



- Automatically complete the loading, cutting and unloading of the plates, realizing the batch continuous processing of the plates of a single specification, significantly improving the processing efficiency and reducing the comprehensive production cost

- ① Raw material cart ③ Laser cutting machine
- ② Automatic LUL device ④ Finished product cart

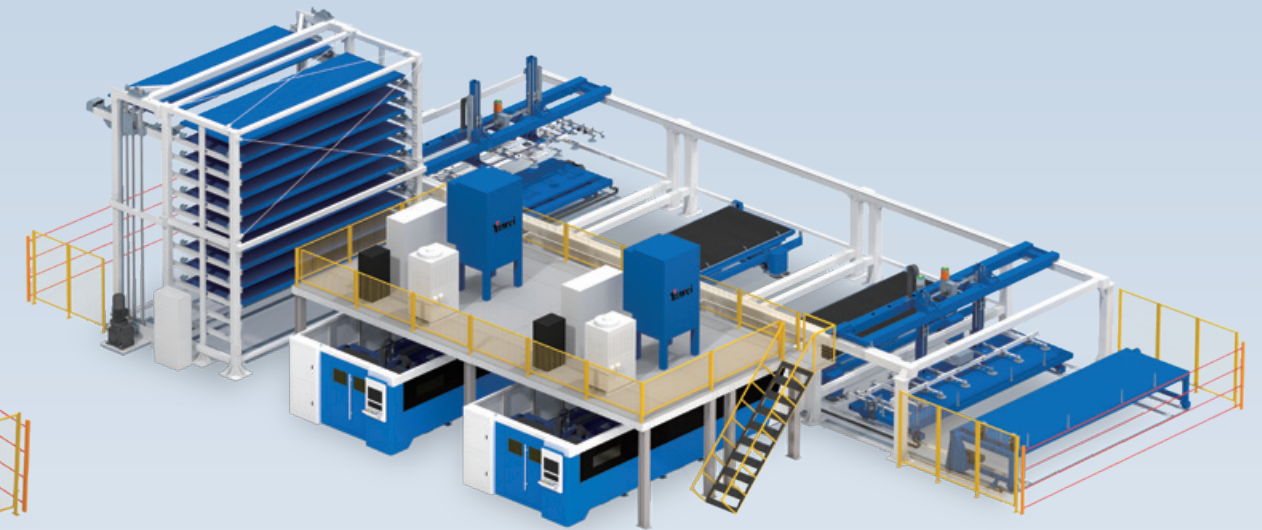
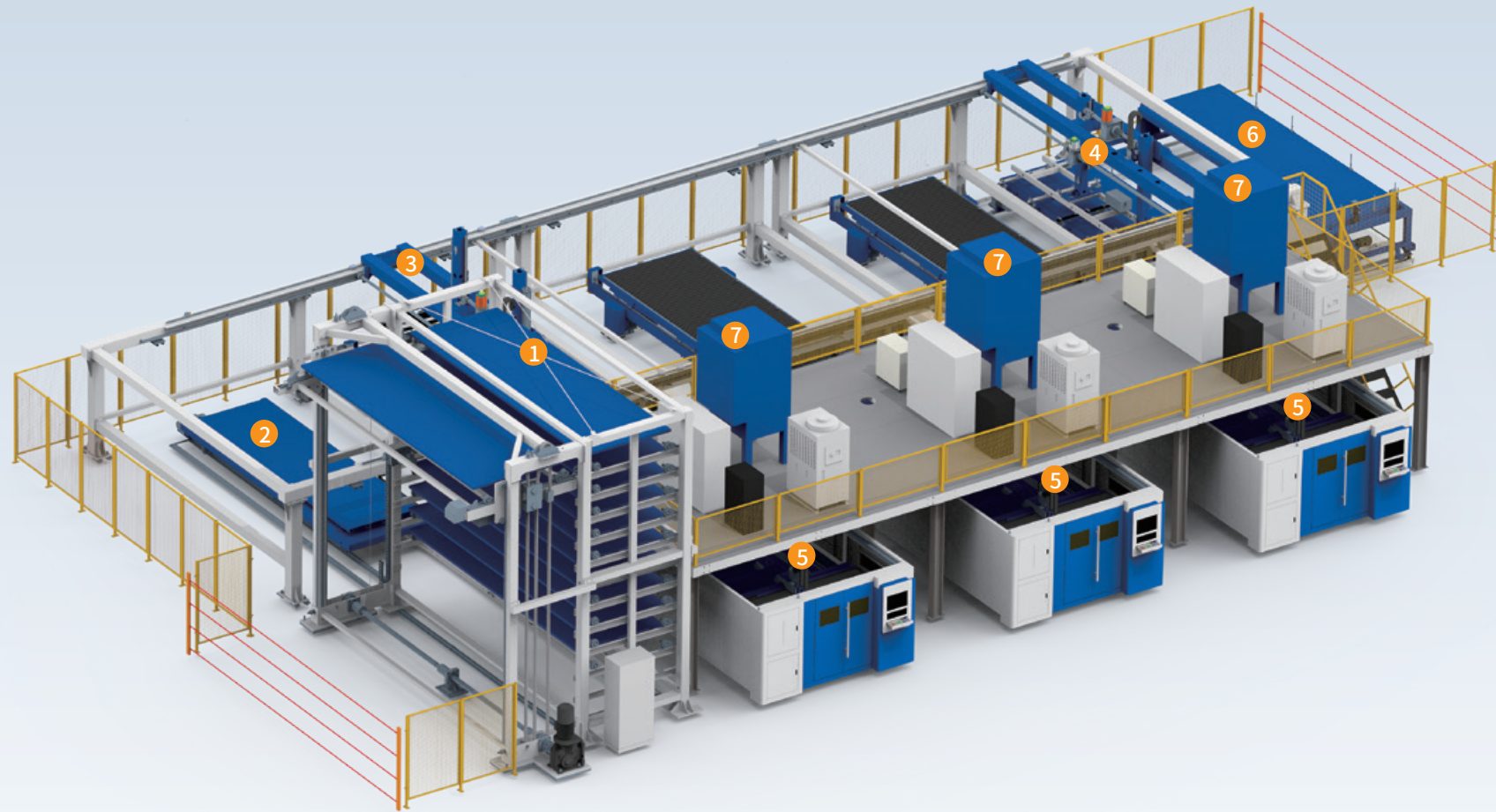
Laser Cutting Flexible System AMS



- On the basis of the above FMC system, a multi-layers material library system can be added, which can be used for batch processing of plates of various specifications, and can realize communication and data sharing with the production management system
- The workpiece sorting system can be selected according to the needs

- ① Multi-shelves storage system ④ Laser cutting machine
- ② Raw material cart ⑤ Finished product cart
- ③ Automatic LUL device ⑥ Sorting system

AMS Series Laser cutting flexible system



- ① Multi-shelves storage system
- ② Raw material cart
- ③ Automatic loading device
- ④ Automatic unloading device
- ⑤ Laser cutting machine
- ⑥ Finished product cart
- ⑦ Top setting auxiliary devices



The multi-shelves material storage system, laser cutting machines and automatic loading/unloading device. It can improve production efficiency and automation level of the sheet metal factory, and contribute to transformation and upgrading of the manufacturing industry

POWERFUL PROCESSING AND TESTING EQUIPMENT

Core components machining



The core components are all formed by DMG imported from Germany and MAZAK five-axis machining center from Japan. The finished products have high precision and good stability.

Machine bed machining



The bed adopts integral welded horizontal structure, precision machining is carried out after annealing to eliminate the internal stress, which greatly improves the stability of the machine tool, and the structure rigidity is good to meet the requirements of rapid positioning.

Parts processing



More than 300 sets of advanced imported processing equipment, to ensure the precise processing of the parts and components with high precision processing machine.

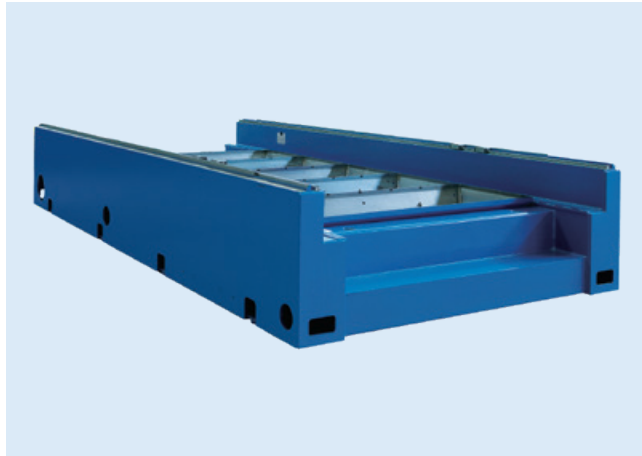
Precision measure



With more than 30 sets of all kinds of precision testing instruments, the quality management system with the policy of "continuous improvement, striving for perfection, and the pursuit of customer's satisfaction" makes the quality management work of the company perfect day by day in all aspects.

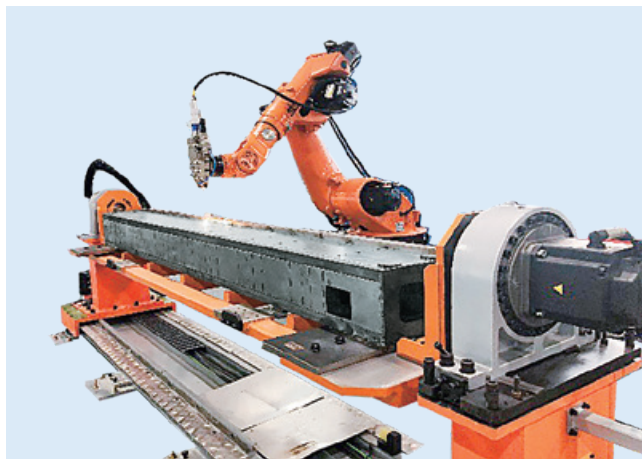


HIGH QUALITY COMPONENTS



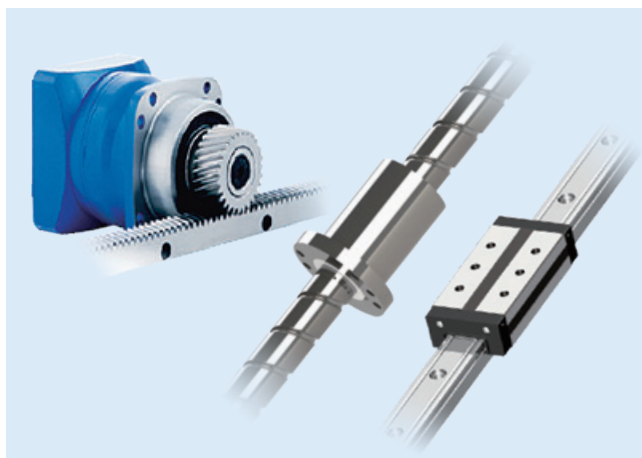
Machine frame

- Steel welded basement adopts annealing to relieve stress, reduces deformation and ensures good rigidity and stability
- The basement is processed by imported large-scale CNC equipment to achieve the precision beyond design standard
- Enhanced design for anti-heat design, easily capable of high power cutting



Beam

- The high rigidity and lightweight beam has better bending and torsion resistance, and natural frequency is increased by more than 15%
- The lightweight and high-rigidity design is optimized by FEA, processed by laser welding
- High speed dynamic characteristics, fast acceleration



Transmission Parts

- International first-class brand from Germany/Japan
- High strength, low noise, long lifetime
- High positioning accuracy and perfect synchronization performance



Cutting Head

- Germany brand, with good stability, safety and high efficiency
- Guaranteeing the best cutting performance at the ideal cutting speed
- Lasermatic distance sensor with high efficiency and precision



Fiber Laser Generator

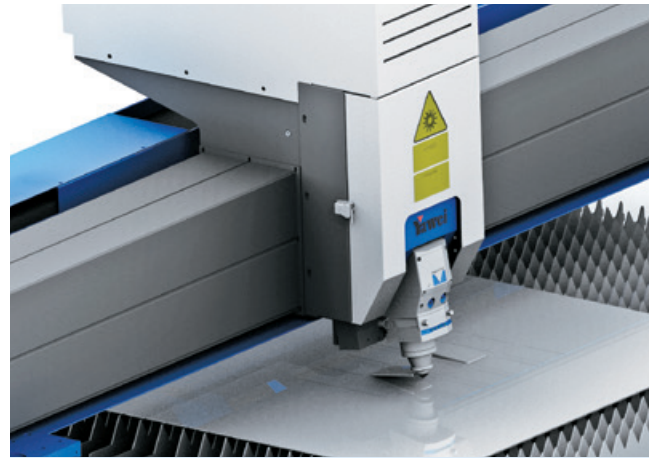
- Constant BPP over full power range, excellent light beam quality, and small laser facula
- Over 40% wall-plug efficiency, continuous processing for high reflective materials
- Modular 'plug & play' design, compact and firm structure, and convenient installation



CNC System and Drive

- The CNC system adopts SIMENS 840DSL, driven by the new generation network architecture
- Realize functions like factory networking, machine information monitoring, remote diagnosis and so on
- Secondary development of advanced laser function by Yawei, all in readiness

ADVANCED TECHNOLOGIES



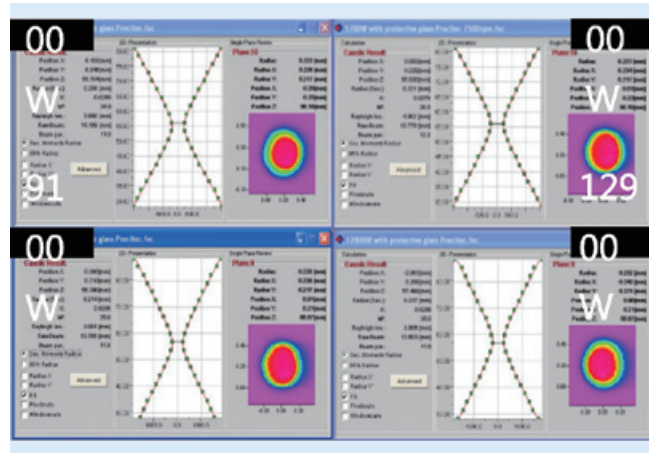
Cutting Head Collision Protection

- Yawei patent technology can provide full protection for cutting head
- Cutting head falls off automatically when accidentally collide with the tilted workpieces
- Cutting head can recover to the cutting state rapidly, and minimize the impact

切割参数	小功率	中功率	大功率	特厚板	特快	打粉
最大行程 (mm)	2000	3000	3000	500	1000	1000
最大厚度 (mm)	1200	1200	1200	200	250	250
气体类型	氮气	氮气	氮气	氮气	氮气	氮气
气体压力 (bar)	0.80	0.80	0.80	0.80	1.20	0.60
出气压力 (bar)	0.0	0.0	0.0	0.0	0.0	0.0
喷嘴直径	1.0	1.0	0.7	1.0	10.0	5.0
切割速度 (mm/min)	6000	6000	6000	2000	1200	900
切割厚度	1200	2000	2000	2000	3000	10000
切割方式	数控	数控	数控	数控		
切割速度	2000	1000	1000	2000		
切割精度	0.05	0.05	0.05	0.05	0.05	0.05
切割	200	200	200	200	200	200
切割	1.00	1.00	1.00	1.00	1.00	1.00
切割位置	0.05	0.05	0.05	0.05	0.05	0.05

Cutting Craft of High Power

- The creative "thunder piercing" process for moderate and thick sheet with superfast speed, good piercing quality greatly rise up the processing efficiency
- Efficient cutting with low gas pressure, automatic power optimization, reduce the running cost greatly
- Shinning kerf by full power cutting, new cutting process for aluminum alloy without scrapes, greatly improve the kerf quality



Focus Real-Time Compensation Function

- Capture the focus position in real time and calculate the offset automatically
- Focus automatic compensation, improve the cutting stability of thick plate
- Original imported numerical control system, all-round escort

设备名称	设备类型	使用日期	使用次数	使用时长	使用状态	维护提醒
数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒
数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒
数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒
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数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒

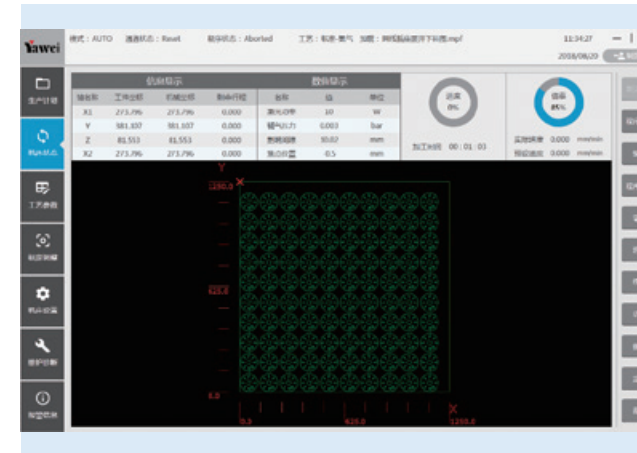
Intelligent Maintenance Reminder

- Turn on and off intelligent maintenance prompt function
- Check the use time schedule to understand the maintenance of machine tools
- Convenient user machine tool maintenance to extend the service life of machine tools
- According to different maintenance items, different maintenance levels are set to facilitate customer maintenance of equipment

设备名称	设备类型	使用日期	使用次数	使用时长	使用状态	维护提醒
数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒
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数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒
数控切割机	数控切割机	2024-08-15	100	100h	正常	维护提醒

Production Plan List

- New plan list function, easily lead in and adjust the production plans
- Information, like quantity and time of production and so on, is clearly shown on the interface
- Operator can setup start mode of different workpieces autonomously



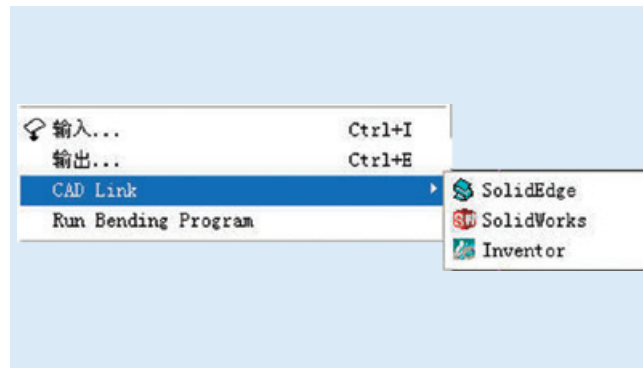
Digital HMI Control Platform

- New production planning function, seamless connection with factory MES
- Flexible entry, arbitrary choice of cutting profile
- Slow starting function, improve common edge and corner cutting quality, and improve stability

PROGRAMMING SOFTWARE

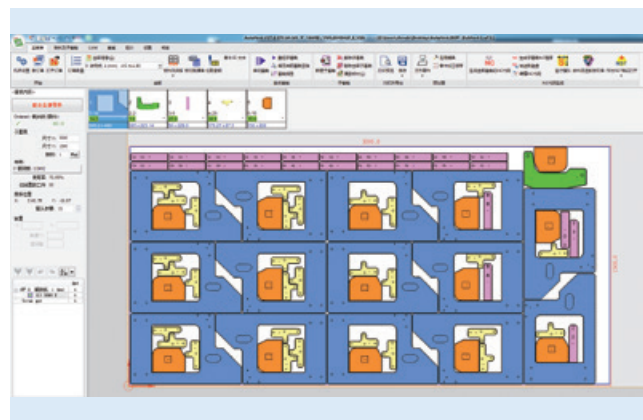
WIDE APPLICATIONS

Customized CNCKAD programming software by Yawei for laser cutting machine, The practical graphic functions which is easy to be acquired, strong and flexible backup process. With the help of an automatic nesting module and a display of cutting simulation, you will do your cutting jobs efficiently.



3D Design Unfold (Option)

- From 3D plotting software, such as Solid Edge, CNCKAD can read the 3D data automatically, and save the data in 2D graphics for further processing
- One-key real-time 3D files lead-in function has been realized really



Automatic Nesting

- With autonest module of CNCKAD, can realize autonest function for different batch production. This function helps to optimize the layout, save material, and improve efficiency
- The workpieces with different material can be nested on the related sheet automatically

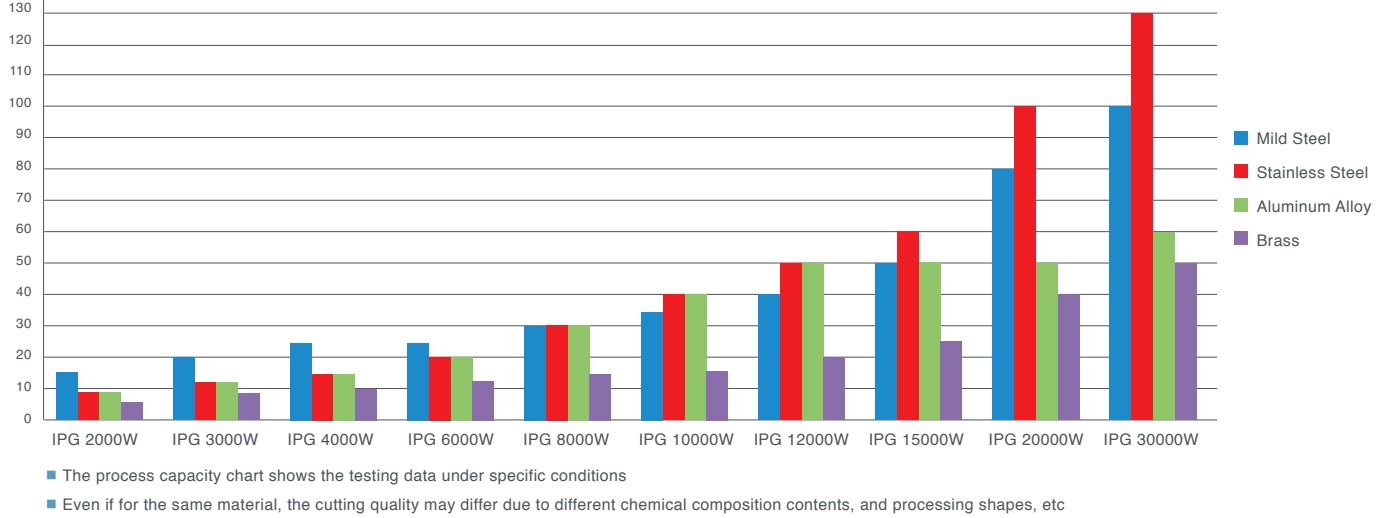
订单名称	规格	数量	重量	加工时间	材料
Yawei	Yawei	Yawei	Yawei	Yawei	Yawei

序号	零件名称	规格	材料	厚度	数量	重量	加工时间	材料	
1	1-1.1 DPF	050110	1	14	14	889.2	440	11	3921.7
2	2-2 DPF	050110	1	1	1	385	223.1	3	1315
3	3-3 DPF	050110	1	25	25	30	229.6	3	662

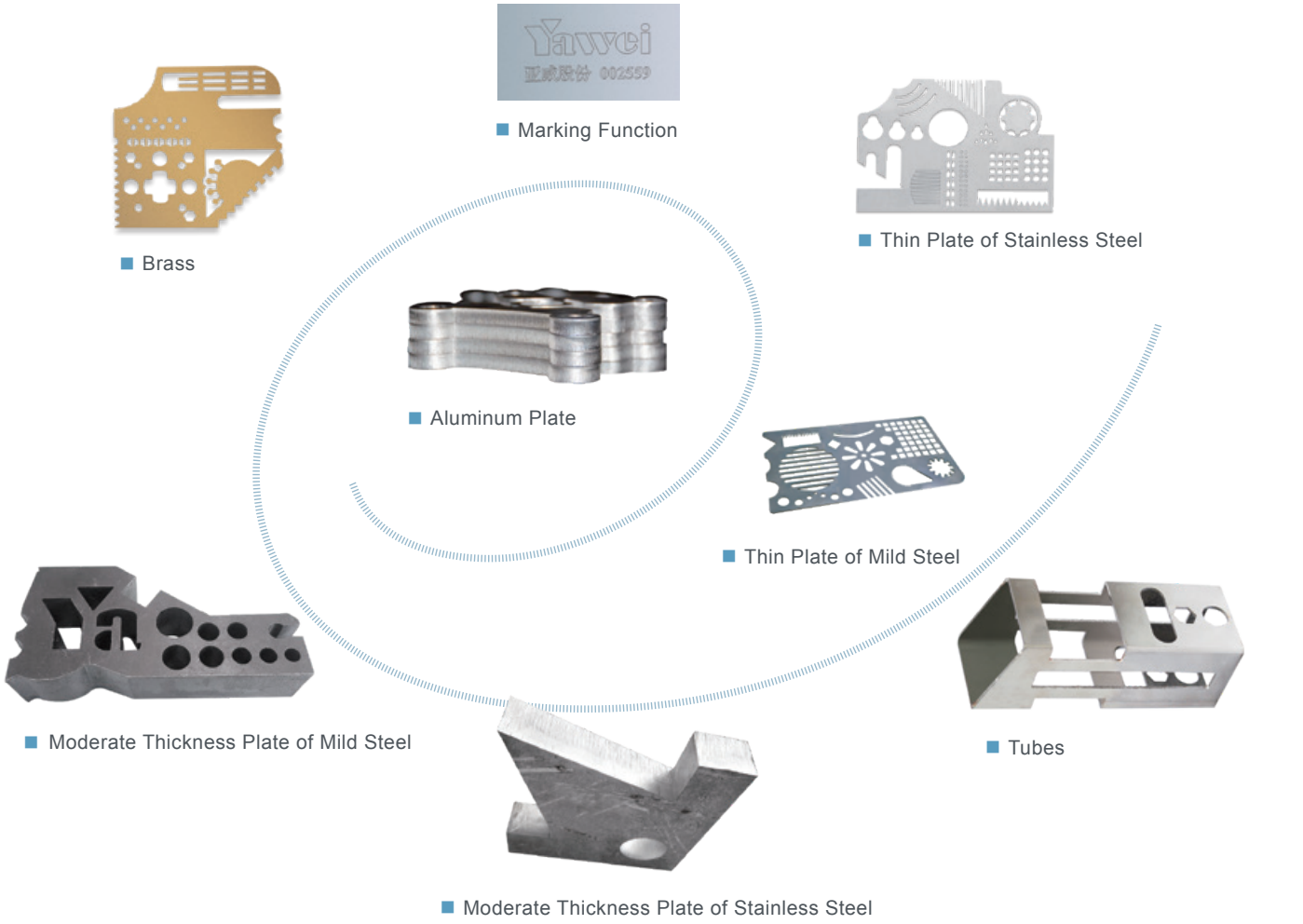
Process Report Documentation

- The report generated by CNCKAD, includes the material, thickness, part quantity, part weight, cutting length, idle running time, and processing time
- Operators can receive all detailed information related to the processing programme from the report, thus the communication between the programme and operators can be realized by document management

Process capability



The process capacity chart shows the testing data under specific conditions. Even if for the same material, the cutting quality may differ due to different chemical composition contents, and processing shapes, etc.



INTELLIGENT FUTURE

FIRST-CLASS SERVICE

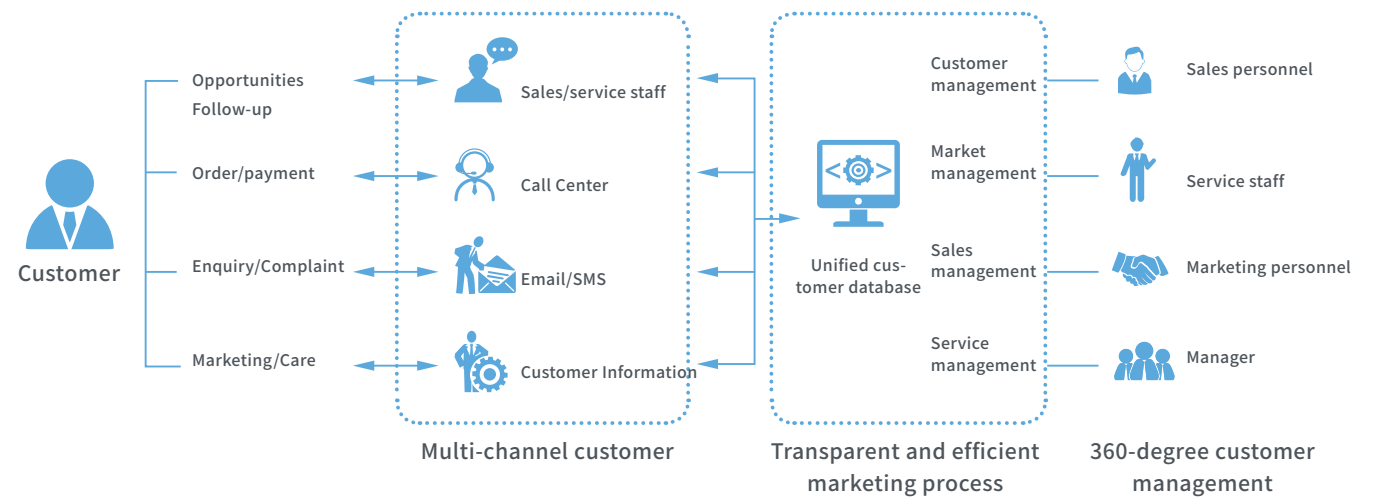
Sheet metal industry MES production management system, is a set of information management system for the workshop management of manufacturing enterprises, to achieve efficient flow of production orders, transparent tracking, efficient use of equipment and plate, to provide one-stop digital manufacturing solutions for the sheet metal industry.



Real-time monitoring of equipment production and processing

Perfect sales network and service system

The company has more than 60 sales and service offices in China and sole agents in more than 50 foreign countries



To serve more than 30,000 customers, the company has set up a sound customer service guarantee system, providing a variety of product solutions and rapid technical services to ensure a good experience.

- Mobile APP can start code scanning with one click, report work, quality inspection, report abnormality, etc
- Inquiry of order progress, production statistics, equipment performance report and energy consumption management by mobile phone



Mobile APP



Scan code



Order progress, production statistics



Online service

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ÉQUIPEMENTS DE QUALITÉ
SERVICE RAPIDE**