Office: +86 27 8173 6331

To be savvy application expert and create value for customers

Penta Laser (Zhejiang) Co.,Ltd

OVERSEAS DEPARTMENT

Penta Laser (Wuhan) Co.,Ltd

Penta Laser Technology(Shandong) Co.,Ltd

Italian EL.EN Group Holding Company

LEADER IN HIGH POWER LASER APPLICATION INDUSTRY OF CHINA

PENTA LASER

The most innovative leading brand of laser cutting and welding equipments

PENTA LASER

Leading the New Era of Intelligent Manufacturing

Manufacturing with Inventive Mind, High-Quality as Development Basis

1 ENTERPRISE COMPANY PROFILE

Founded by Chutian Laser Group and Italian IEL.EN. Group, Penta Laser is a Sino-Italian joint venture dedicated to R&D and manufacturing of high power laser cutting & welding equipment.It has set four main production bases in Italy,Wuhan, Wenzhou and Linyi. With world's leading laser application technology from Italy and core components provided by world-renowned brands, Penta Laser fully executes European standards and delivers high-quality products with stable and reliable performance. To provide prompt and sophisticated after-sales service for our customers, we have established customer service centers in 50 cities within China and more than 20 countries worldwide.

Adhering to its operation philosophy of "Being Laser Application Expert, Creating Value for Customer" , Penta Laser has six R&D centers in Florence, Shanghai, Beijing, Wuhan,Linyi and Wenzhou. In decades of continuous research, Penta Laser has attained around 100 laser patents and developed a series of laser equipment at international advanced level. Our BOLT, SWING, 3D GANTRY, pipe cutting WHIRL and other products have received favorable comments from customers. In 2021, Penta Laser successful in developing the first 40KW ultra high power intelligent laser cutting machine in China that fills domestic technical gap of such power level and greatly increases benefit for more customers. All these advanced laser equipment are award winners and have been widely applied in machinery manufacturing, locomotive fabrication, aerospace, and sheet metal production. Overseas markets have welcomed Penta Laser with more and more positive feedback.

Through all these years, Penta Laser has insisted on its quality policy of "Stay Meticulous, Maintain Persistence, Put Quality First, Continue Innovation, Serve with High Quality, and Keep Every World" all along. We are looking forward to leading technological reform in laser application together with you.

1 ENTERPRISE HISTORY

2007

Penta-Chutian Laser (Wuhan) Co., Ltd. was founded by Chutian Laser Group and Italian EL.EN. Group

2008

Penta' s first laser cutting machine was installed in China Academy of Launch Vehicle Technology (CALT)

2010

PLUS and HYPE-CUT C01 high speed laser cutting series were successfully developed

2012

Penta Laser cooperated with RTM (Italy in developing China' s first laser welding system for high-speed train MJ500

2013

Penta Laser (Wenzhou) Co., Ltd. was founded

2016

Wenzhou production base went into operation

China' s first laser enterprise processing ecosystem—YLI Penta Laser Processing Plaza opened up

2018

The first 15KW ultra high power laser cutting machine was released to global market and exported to overseas Penta Laser' s annual sales exceeded 1 billion RMB

Shanghai Laser Application Center was founded

2019

Successfully developed the China first 20KW laser cutting machine

PENTA LASER WEN-ZHOU Phase II Put Into Production

PENTA LASER LIN'I Plant Put Into Production

2020

Penta Laser Zhejiang University Joint Research Center established; Accollator of Saiji CUTLITE

2021

Penta Laser kept developing in industrial automation, SANY Heavy Industry, XCMG and other leading enterprises in the construction machinery industry choose PENTA LASER to help upgrade the intelligent manufacturing industry

1 ENTERPRISE HONORS & AWARDS

Penta Laser always adheres to the management philosophy of "Deep Laser Application Expert, Creating Value for Customers", and targets to create efficiency and lower operational cost by powerful technology strength.

With Group's Five 20000W & 30000W ultra-high power intelligent fiber laser cutting machines, Penta Laser provides a complete product portfolio for customers. "3015" high-speed fiber laser cutting machines, "6kW" large format fiber laser cutting machines, "Nimble" tube laser cutting machines and "3200" 3D 5-axis fiber laser cutting machines. From laser cutting to laser welding, and from 2D processing to 3D 5-axis processing, Penta Laser has taken the lead in developing core "Intelligent Manufacturing". We are embracing the wave of Industry 4.0 and leading high-efficiency laser processing to a new era.

2 PRODUCTS

BOLT SERIES TOP SPEED FIBER LASER CUTTING MACHINE

BOLT Series

TECHNOLOGY INNOVATION

1. Hollow structure design of split double machine bed
2. Burr-free rapid piercing, sharp corner cutting, thick plate shaving cutting, limit thickness cutting, precision parts cutting
3. Special imported CNC chip and the latest SW software, Dual PCS, high speed, cloud service, remote operation and maintenance system
4. PENTA super cutting head, ultra-speed gas saving cutting, ultra-clean cutting, bevel cutting, ultra-fast cutting,
5. Fly piercing and rapid response technology

Optional Function: Bevel Cutting

Technical specifications

Specifications							
	Bolt 3015	Bolt 4020	Bolt 6020	Bolt 6025	Bolt 8025	Bolt 10025	Bolt 12025
Table Travel	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm	8000*2500mm	10000*2500mm	12000*2500mm
(VDI 3441)(Accuracy)	±0.03mm/m						
Mechanical Repeatability	±0.01mm						
Rapid Speed	200m/min						
Maximum Acceleration	2.5G~4.0G						
Z Travel	160mm						
Laser Power Option	2kW-40kW/60kW						
Laser Source Option	IPG/RAYCUS/MAX/JPT						
Bevel Cutting Function	(Optional)						

2 PRODUCTS

SWING SERIES FIBER LASER CUTTING MACHINE

SWING Series

RANGE OF APPLICATION

High speed cutting for moderately thin sheet and widely used in fields of light fixture, kitchen ware, stainless steel decorative materials, case and cabinet etc.

EQUIPMENT CHARACTERISTICS

1. Ultra-fast cutting function
2. The latest SM software, multi-function expansion available
3. High power machine protection
4. Super-fast pallet exchanging, anti-laser radiation cover, partition dust removal, etc.
5. Best performance, high cost effective

Technical specifications

Specifications	
	S-ving 3015/4020/6020/4025/6025/8025-10025/12025
Table Travel	3000*1500mm~12000*2500mm
(VDI 3441) (Accuracy)	±0.03mm/m
Mechanical Repeatability	±0.01mm
Rapid Speed	140m/min
Maximum Acceleration	1.5G
Laser Power Option	1KW-50KW
Laser Source Option	IPG/RAYCUS/MAX/JPT

2 PRODUCTS

AWING SERIES LARGE MEDIUM POWER
FIBER LASER CUTTING MACHINE

AWING Series

FEATURES

- Cost effective, high efficiency
- Gantry structure, compact design
- Equipped with intelligent controller, convenient operation
- Full enclosure, single or double work table optional

APPLICATION

- Suitable for rapid cutting of medium and thin plates. Widely used in sheet metal processing, lighting, kitchen utensils, decorative materials, chassis cabinets and other industries

Technical specifications

Specifications						
Model	Awing 3015-01/02	Awing 4020-01/02	Awing 6020-01	Awing 6025-12	Awing 6025-12	Awing V 3015-6025
Table Travel	3000*1500mm	4000*2000mm	6000*2000mm	6000*2000mm	6000*2500mm	3000*1500~6000*2500mm
(VDI 3441)(Accuracy)	±0.05mm/m					
Mechanical Repeatability	±0.04mm					
Rapid Speed	90m/min ~ 120m/min					140m/min
Maximum Acceleration	0.8G~1.0G					1.0G
Laser Power Option	1KW-20kW					
Laser Source Option	IPG / RAYCUS/MAXJPT					
Work Table Type	single / dual		single	dual		dual

2 PRODUCTS

10kW,12kW,15kW,20kW,30kW,40kW,60kW
10kW-60kW FIBER LASER CUTTING MACHINE

10kW-60kW
SUPER HIGH POWER

MACHINE FEATURES

- The machine body's thermal processing technology, which can ensure the stability and precision
- High power specialized cutting head, which can support durable and stable cutting
- Unique cutting database for fast piercing, high speed cutting and thick plate cutting, cutting
- capacity for stainless steel is up to 100mm, for mild steel is up to 70mm
- Equipped with new version of Smart Manager CNC software, which optimize various of piercing mode, adopt new generation of frog jump management, and move fluently without any pauses. Thin materials' productivity promoted more than 10%. Metal obstructions can be detected to avoid collision to the uttermost in fast running while cutting

2 PRODUCTS

BULL LARGE-FORMAT FIBER LASER CUTTING MACHINE

BULL Series

MACHINE FEATURES

- Large gantry design ensures large area diagonal precision. Automatic accuracy compensation
- Unique dual optical path system (optional). Multi-style nesting, beveling process
- Super long air duct. Partition automatic dust removal, stable and durable machine tool
- Laser safety protection and safety light curtain design

Optional Function Bevel Cutting

ADVANTAGES OVER PLASMA CUTTING

- High precision, good cutting quality. Fast speed high efficiency
- Small cutting taper, high material utilization
- Clean and environmentally friendly, energy saving

Technical specifications

Specifications			
	Bull6020/6030/10025/12025/19025/19035/20035	BULL IV 12035	BULL V 12035
Table Travel	4m-30m customizable	12000×3500mm	12000×3550mm
(VDI 3441) (Accuracy)	±0.1mm	X≤0.15mm	Y≤0.05mm
Mechanical Repeatability	±0.05mm	X≤0.07mm	Y≤0.03mm
Rapid Speed	90m/min	130m/min	110m/min
Maximum Acceleration	0.8G	1.3G	1.1G
Z Travel	200mm		300mm
Laser Power Option	2KW-60KW		
Bevel cutting	Optional		

2 PRODUCTS

MACHINE FEATURES

- Automatic clamping and centering, ensure long pipe feeding accuracy, high cutting precision and excellent efficiency
- Available to process square Tube,round Tube,rectangular Tube, Irregular Tube etc.
- The Nesting Software has multi-layer function, enable processing any complex curve drawings
- Automatic Loading system available, for decreasing labor cost,increasing cutting efficiency
- Zero tailing auto unloading,Optional bevel cutting function

Automatic Loading & Unloading System

WHIRL SERIES PIPE LASER CUTTING MACHINE

WHIRL Series

Technical specifications

Unit		specifications					
Model		WPH 6013A	WBP M23B+	WP II 6025C	WPH 12036C	WPH 12050C	WPH 12050HC
Pepwer	W	1KW-3KW	3KW-6KW	1KW-3KW	3KW-6KW	6KW-12KW	6KW-12KW
X Travel	(mm)	6300	6200	6200	12700	12700	12700
Y Travel	(mm)	150	350	300	400	600	600
Z Travel	(mm)	200	250	300	300	400	400
A/P Rotation axis	(度)	® x360®					
Straight axis re-positioning accuracy	mm	±0.015					
Straight axis maximum speed	(m/min)	150	90	100	70	70	70
Rotation axis maximum speed	(rpm)	200	90	100	75	75	75
Rotation axis re-positioning accuracy		±.8					
Qty of Chuck Control	(个)	2	2	3	3	3/4	3/4
Diameter Range	mm	10-110	Φ15-245 □15-245	20-240	20-350	Φ500 □350	Φ 500 □350
Pipe Weight	kg	25	300	240	1200	2500	2500
Auto Loading	m	Semi-Automatic Loading System/ Auto Loading System					
Bevel Cutting		N					Y

2 PRODUCTS

LASER WELDING SYSTEM



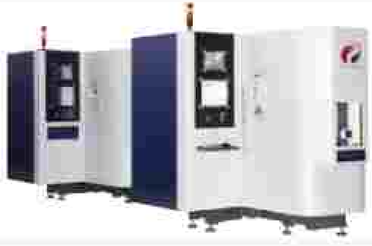




Plus-Weld
Plate Heat-Exchanger Laser Welding Machine

Professionally designed for plate heat-exchanger, suitable for various type & size

- Full-automatic laser welding
- Reliable & repeatable welding
- High strength, high efficiency
- Very good outlooking welding seam



CJ Series
CJ series Compact Precision Laser Welding System

Suitable for automotive powertrain components and other precision components

- Multi-axis CNC control, Compact & High accuracy
- Multi-workstation leads to high efficiency

Robot Laser Welding System

- Suitable for car body, interiors, and other sheet metal components
- Customized laser welding solution with robot system
- Various laser welding technologies are available: laser welding, remote welding, filler wire welding, hybrid welding, deposition welding

MJ Series 3D Laser Welding System

- Suitable for laser welding of various dimension of complex 3D components, especially in railway, aerospace & aviation industry
- Five-axis Gantry 3D laser welding system
- High accuracy
- Customized welding range, X axis up to 70m
- Available with Hybrid welding, clamping wheel

2 PRODUCTS

SWAN-HW Handy Laser Welder
SWAN-HW Series

- Human Protection
- Wobble Welding Head
- Portable Mainframe
- Welding Database

Technical specifications

Model	HW-1000	HW-1500	HW-2000
Power	1000W	1500W	2000W
Power Range	10%-100%		
Fiber Core Diameter	50μm		
Cable Length	10m		
Welding Head	Wobble welding head		
Wave Width	0-5mm		
Voltage	220±10%/380±10%		
Working Temperture	10-40°C		

⚠ Caution: Seafety glasses and clothing needed while operation, please operate in laser safety

Portable Handheld Laser Cleaning Machine
ALIGHT Series

Mechanical

Cause damage to base material

Chemical

Series Pollution

High Pressure Liquid

High Cost, Heavy Pollution

Ultrasonic

Size Limitation

Advantages of handheld laser cleaning machine:

Better effect

Convenient

High efficiency

Stable and environmentally friendly

Technical specifications

Model	Unit	HC-100-A	HC-200-A	HC-300-W	HC-500-A	HC-650-W	HC-1000-W	HC-1500-W	HC-2000-W
Power	W	100	200	300	500	650	1000	1500	2000
Laser Wavelength	nm	1064							
Fiber Length	m	5	5	5	5	10	10	10	10
Frequency Range	KHz	1-4000	1-4000	10-50	1-3000	10-50	0-0	0-0	0-0
Max Single Pulse Energy	mJ	1.5	1.5	12.5	1.5	20	-	-	-
Cooling		Air	Air	Water	Air	Water	Water	Water	Water
Scan Width	mm	0-50@10J 0-80@20J	0-50@10J 0-80@20J	100	0-50@10J 0-80@20J	300	300	300	300
Power Consumption	W	400	500	1000	1000	1500	4000	5000	6000
Voltage	220VAC 50/60Hz								
Working Temperature	°C	10 - 40							
Weight	kg	73.2	80	230	84	300	350	360	380
Dimension	mm	600*280*1130 / 1200*700*1200							

2 PRODUCTS

3D LASER SYSTEM

HIGH PRECISION

High strength welded machine body, high precision guide rail, High accuracy pinion & gear, native 3D cutting head and advanced CNC system, all these ensure high precision manufacturing. Finally helps you improve the quality of your products, and make

FLEXIBLE

The 5-axis 3D machine, brings you to the 3D world, no longer limited to 2D manufacturing. Whatever it's Sheet metal, tube, profile or complex 3D part, whatever it's mild steel, stainless steel, or aluminum, copper, the 3D machine will never disappoint you. Your business will develop in much broader world.

HIGH EFFICIENCY

High speed linear axis, flexible rotation and swivel axis, sharp laser beam, forms a high efficient & dynamic tool. With this sharp & flexible tool, you can improve productivity and lower down cost easily, and makes you more competitive in the

GAN Series 3D Laser Cutting & Welding System
GAN SEIRIES GANTRY 3D 5 AXIS LASER

GAN-H Series

GAN series 5 axis laser machine is a Cartesian axis machine, with perfect laser cutting & welding capability for 3Dcomponents

Applications

Laser cutting & welding of 3D components for Automotive, Railway, Aviation & Aerospace industry

Technical specifications

	GAN-H 3020	GAN-H 4020
Laser power	1-4KW	1-4KW
X Travel	3050mm	4050mm
Y Travel	2050mm	2050mm
Z Travel	800mm	800mm
A Travel	n×360°	n×360°
B Travel	±182°	±182°
Linear axis repeated positioning accuracy	±0.05mm	±0.05mm
Linear Axis Max Speed	100m/min	100m/min
Linear Axis Max Acceleration	1G	1G
Maximum Speed of Rotation Axis	60rpm	60rpm
Rotation Axis Positioning Accuracy	0.03°	0.03°

2 PRODUCTS

SMART LASER CUTTING PRODUCTION LINE

Product introduction

Smart laser cutting production line include large-scale warehouse + intelligent convey system+ laser cutting + intelligent sorting system, it realized automatic loading and unloading, automatic convey, automatic sorting. build an intelligent control of the whole production process from production plan to the final products be finished. Each machine, each unit and each system can be operated by manual when the system can not run automatically because of a failure or any other reasons.

Diagram Of Production Line

Requirement

Capacity: according to the model of cutting machine

Process

Storage In Warehouse

1. The raw material be put on the platform by crane, then be moved to the lift by convey system, the lift will move the raw material to a certain deck of the warehouse.
2. Input the plate information into storage management system
3. Receive the task from CNC and position the plate of warehouse, the lift will pick up the raw material from the warehouse and move it to the convey system by bottom car.

Convey System Pick Up Material To Cut

4. The convey system move the plate to correct position according to CNC plan, and move the finished products to sorting position after cutting.

Automatic Sorting

1. Identify the position and calculate the grasping coordinates: The camera takes shots for the product when it arrives at the position, matches it with the
2. nesting drawing, the sorting system then calculate the coordinates.
3. Pick up: get the coordinates and send to sorting system; sorting system request PLC to judge the area then grab the workpiece.
   Stacking: stack the workpieces according to the stacking rules and report.

The Roller Conveyor Get Back

1. lifting roller: after the waste treatment is completed, the lifting roller goes down, the pallet get back from the sorting area, the convey system send the empty pallet to the warehouse to take material, so as to circulate.

2 PRODUCTS

SMART LASER CUTTING PRODUCTION LINE

Introduction of main component

Warehouse

This system can realize plate storage, automatic delivery, automatic pick up, automatic loading and etc. This fully automated production process can ensure the product quality, improve production efficiency and reduce production cost.

The quantity of decks and size of warehouse can be decided according to the size of plates.

It include splitting and thickness measuring device.

Warehouse Diagram

Roller convey system

The convey system is driven by frequency conversion motor and can be continuously variable transmission to meet the requirement of different production speed.

The loading conveyor picks up the the plate from the warehouse, and sends to the cutting section through the system, then sends it to the cutting position by single deck roller conveyor.

The loading sensor will feedback information to the cutting machine when it confirms that the tray reaches the cutting position.

After cutting, the roller convey system will transfer the tray to the unloading conveyor, then send the tray to sorting area.

After sorting, the empty tray will be sent back to the loading conveyor to realize the automatic circulation.

Sorting system

Nesting drawing matching: the sorting system will match the workpiece and nesting drawing to calculate the grasping coordinates.

Positioning and edge searching for plates: The sensor is triggered when the plate is conveyed to truss robot sorting area, the PLC send the signal of positioning to the vision system, then the vision system start positioning and edge searching for the plate.

Grab rules: the sorting system determines the grab method (single-arm grab or double-arm grab and the code of the corresponding lattice magnet) according to the shape of workpieces.

Grab: the sorting truss grab the workpieces according to the calculated grab coordinates.
Stacking and reporting: the workpiece will be stacked and reported according to the stacking rules.

Sorting Truss Diagram

3 TECHNOLOGY
TECHNOLOGY INNOVATION

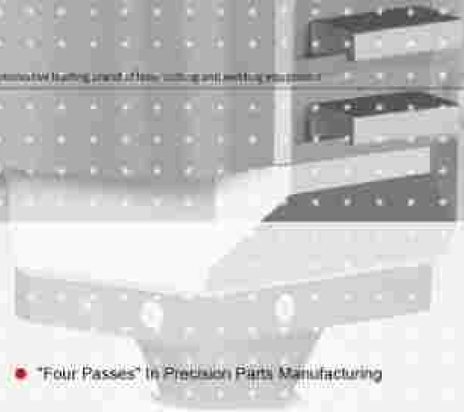
PRECISION CUTTING

FAST PIERCING AND BURR FREE PIERCING

PRECISION CUTTING

SHARP ANGLE CUTTING

BRIGHT SURFACE CUTTING OF THICK PLATE



- "Four Passes" In Precision Parts Manufacturing

Sun free passing, precision cutting, slimming cutting, sharp angle cutting
Four functions + high laser power make laser cutting machine a precision parts manufacturing machine
Under the condition of accuracy, laser cutting machine gradually replaces the milling machine and the CNC machine tool, and the processing efficiency is improved more than 50%

3 TECHNOLOGY TECHNOLOGY INNOVATION

INNOVATION

SUPER FAST CUTTING

1.Flying piercing and fast response technology, cutting efficiency increased by 20% - 90%
2.N2(Air) cutting, suitable for 4mm(3KW) and 10mm(15KW) thick plate
3.Long life time of protect lens

BEVEL CUTTING

1.45 degree bevel cutting
2.Bevel cutting thickness range:3-20mm
3.Bevel cutting for complicated figures, lines and circles
4.Suitable for Fiber Plus and Bolt Series

IQ CUTTING

Compared to normal cutting, thin plate cutting speed increased 50%
Aluminum alloy cutting without burr or less burr
Lower power slimming cutting can cut thicker material
Cut smaller hole

CAMERA NESTING

Automatic camera nesting of residues bypassing
Save time and save materials by directly nesting or modifying the nesting program on the machine
Defective parts can be machined twice

CLEANING CUTTING

Air filtration system
Cost Saving, High Efficiency
Burr-free Thick Plate Air Cutting

4 TECHNOLOGY ADVANCED HARDWARE SYSTEM

PENTA INTELLIGENT HIGH POWER CUTTING HEAD

- Non-contact capacitance sensor, automatic detection of the actual plate position
- Automatic focus function eliminates the need to refocus when changing plates
- Zoom punch, sieve punch time 2-3 times of thick plate
- Focus compensation, focus offset control, ensure long - time cutting stability
- Proprietary lenses, fiber connector, electronic and water cooling systems
- Proprietary temperature and focal length control sensor

HIGH SYNCHRONOUS SERVO MOTORS

MechatroLink is the world's leading dual-drive synchronization technology whose control response time reaches nano-second level and synchronicity is 1000 times higher than conventional mainline tools. Compared with conventional interface control methods, MechatroLink control mode responses faster and has stronger anti-jamming capability, which guarantees the synchronicity of machine tool and the stability of running at high speed and greatly improved the working life of machine tool and servo motors.

DESIGN AND MANUFACTURE OF HIGH PRECISION MACHINE TOOLS

Heat treatment & thermal protection and automatic lubricating device reduce the heat absorption of machine tools, guarantee the precision of the machine in long running and prolong the service life. 8+32 separate suction design.

Super large screen, excellent operation experience and visual effect.

4 TECHNOLOGY ADVANCED SOFTWARE SYSTEM

OPERATING SYSTEM

The new Smart Manager upgrade version is the original European imported CNC software based on the Windows platform, which can be fully integrated with the Italian imported CNC system.Equipped with a powerful laser cutting process database, and laser cutting parameters can be adjusted in real time during the cutting process to achieve the best cutting quality.

A variety of perforation methods have been newly added, such as continuous/pulse perforation, blast perforation, multi-level perforation, etc., and up to 23 perforation methods can be set.

Optimized the motion control of the machine tool to make the operation more smooth, and the production efficiency of the sheet metal is increased by more than 30%. Optimized the control of Z-axis and capacitance sensor to eliminate the influence of uneven plate.

Support the laser power adaptive function, support the auxiliary gas automatic control function and the air pressure automatic adjustment function, and support the automatic zoom function of the cutting head to ensure the cutting quality.

Support multiple breakpoint (power off) return modes.

Fully support five-axis and bevel cutting function, support scanning cutting (Raster), to achieve perfect marking.

Support FlyCutting and flying punching to realize non-stop cutting.

Support Chinese, English, French, Italian, German, Russian, Japanese, Korean and other languages.

CNC CONTROL

Based on the Fiber2 system dedicated to the laser, it communicates with HMI and other modules through a proprietary protocol, which is high-speed, stable, and powerful.

Use international standard G codes, and each line of NC codes supports up to 10 interpolation axes.

The system can read large NC program files from the hard disk, with a reading speed of up to 11,000 lines of code per second, and can be pre-read up to 500 lines of code.

The cutting-edge impact move control (jerk control) limits the mechanical impact stress during machine tool operation.

Support high-speed processing and fine processing, support fixed cycle instructions and macros.

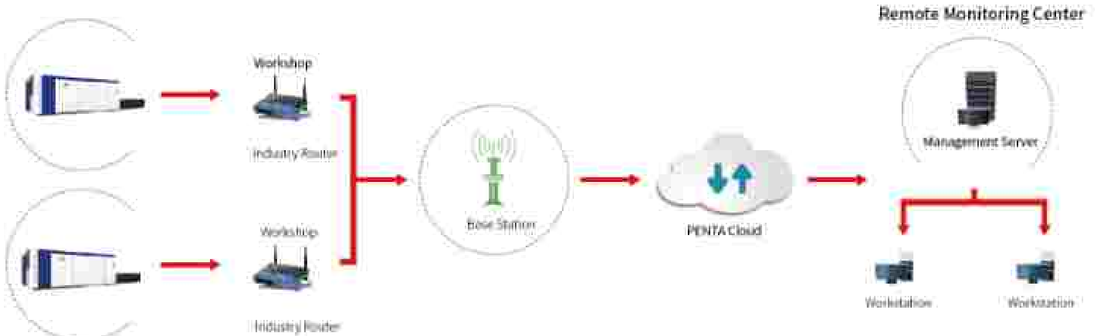
Support multiple work platforms such as gantry axis, five-axis and bevel.
Support multi-process. Support up to 8 independent simultaneous processes.
Support multi-axis control, support up to 32 digital axes and 16 analog axes.

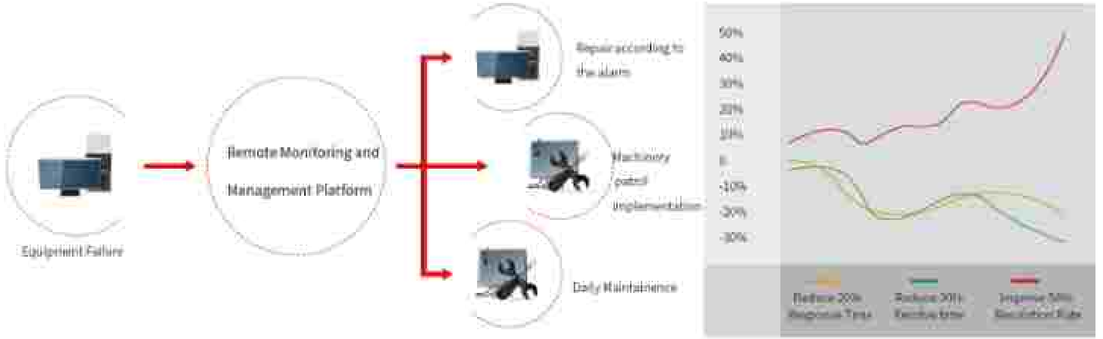
PLC control: Integrated hot-key PLC, real-time access to CNC data. PLC response time is as high as 2ms, and the synchronization with the NC program is very good.

4 TECHNOLOGY

REMOTE OPERATING AND MAINTENANCE SYSTEM

Penta laser remote operation and maintenance system based on Internet of Things technology and cloud computing, set up a system for monitoring and managing remote device based on cloud platform, provide accurate products service and business support for acquisition of remote data and analysing process data, build up "UC interactive platform between enterprise - product - and user for management control and interactive control the situation of product by real-time find the product failure in time to improve after-sales service efficiency and quality combined with the actual production operation and maintenance requirements of customers by analysing production coordination and maintenance provide data to set up failure prediction and diagnosis model complete the fault database operation and maintenance knowledge database and fed back the relevant empirical information to the front end of the product life cycle – the product design stage





5 APPLICATION

APPLICATION FIELD

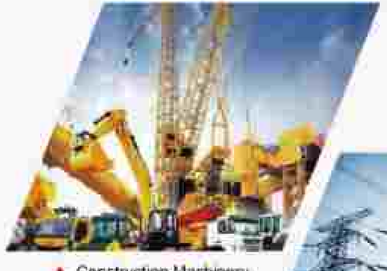
▲ Oil Equipment

Aerospace ▼

Locomotive Mnaufacturing ▲

Shipbuilding ▼

Widely used in textile machinery, machine manufacturing, elevator equipment manufacturing, automobile, machine tool, shipbuilding, decoration, advertisement, oil drilling equipment, kitchenware, household appliances and laser job shop.



▲ Construction Machinery

Intelligent Production Line ▶

Tower ▼

5 TECHNOLOGY

CUSTOMER SERVICE

GLOBALIZED PENTA LASER

Penta Laser's domestic production headquarter stands in Wenzhou (Zhejiang Province). In addition, there are five production bases in Wuhan and Leyu, and service centers in more than 30 cities including Beijing and Shanghai. The international R&D headquarter located in France, Italy and there are offices and corporate agents distributed in Germany, Australia, Brazil, India, South Korea, Japan and Belgium.

Wuhan R&D Center

Beijing R&D manufacturing plant

Shanghai R&D manufacturing plant

Wenzhou R&D manufacturing plant

Wuhan R&D manufacturing plant

Leyu R&D manufacturing plant

6 ENTERPRISE VISION

THE GLOBAL LEADING SUPPLIER OF INTELLIGENT LASER SOLUTIONS