IGAWARA

IGAWARA CORPORATION PTE LTD

井河原私人有限公司

LASER EQUIPMENT DIVISION

QUALITY POLICY

We deliver bias-free customer satisfaction through the effective implementation of **ISO 9001** and **AS9120** Compliant quality systems

We shall:

Never compromise and put profit above the quality management system.

Conduct stringent check on the reliability of customers and vendors.

Only engage in businesses where long term relations with customers and vendors are sustainable for the mutual benefits of all parties.

Adhered to customer requirements and specifications to achieve total customer satisfaction.

Service with a Difference

- Delivering service that consistently exceeds expectations
- Providing comprehensive, end-to-end power solutions
- Ensuring reliable performance for critical operations
- Driven by expert engineering and strict quality control
- Manufactured in compliance with global ISO standards
- One trusted partner from concept to completion
- Proven track record across international projects
- Extensive experience in global trade and logistics
- Delivering value through cost efficiency and reliability
- Rapid response with solutions tailored to your needs

LASER EQUIPMENT OVERVIEW

Company Overview

Industrial manufacturing is entering a new phase—where physical production systems are no longer defined only by machines, but by data, intelligence, and system connectivity.

In this context, laser technology becomes more than a processing tool. It becomes a high-precision execution layer within an intelligent industrial system, bridging physical manufacturing with digital control and AI-driven decision logic.

We develop integrated laser manufacturing systems designed for this transformation—where cutting, welding, surface engineering, and automation are no longer independent processes, but interconnected nodes in a continuously optimized production network.

Integrated Industrial Architecture

Cutting — Digital Formation Layer

Laser-based precision shaping of raw materials
→ Converts physical resources into defined digital-physical geometry units.

- Laser cutting of sheets, tubes, and structural steel
- Defines geometry and precision foundation
- First step of value creation

Welding — Structural Intelligence Layer

Automated joining and robotic assembly systems
→ Transforms components into engineered structures with consistent integrity.

- Robotic welding & automated joining
- Converts components into structural systems
- Ensures strength and consistency

Surface Engineering — Lifecycle Optimization Layer

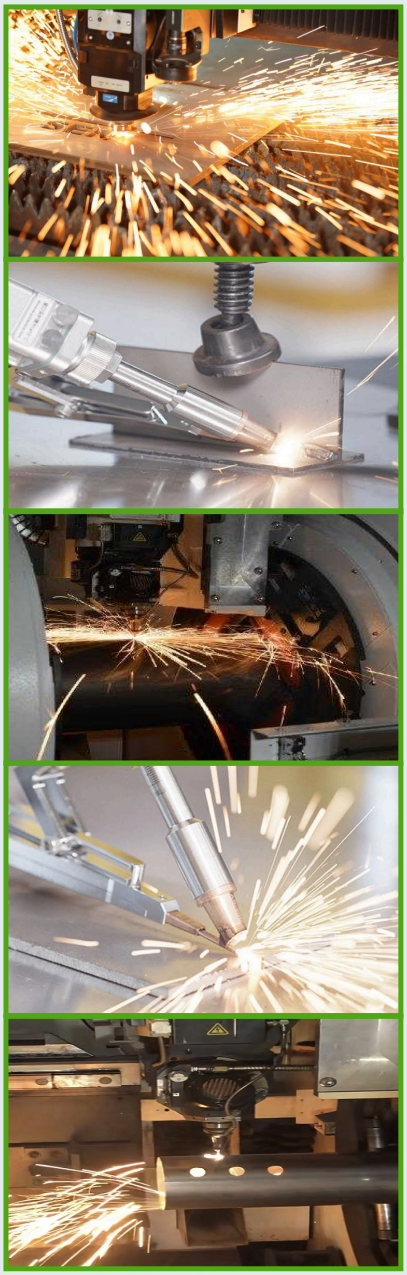
Laser cladding, cleaning, and surface modification
→ Extends performance, durability, and operational lifecycle of components.

- Laser cladding, cleaning, repair
- Improves durability and lifecycle
- Final performance optimization step

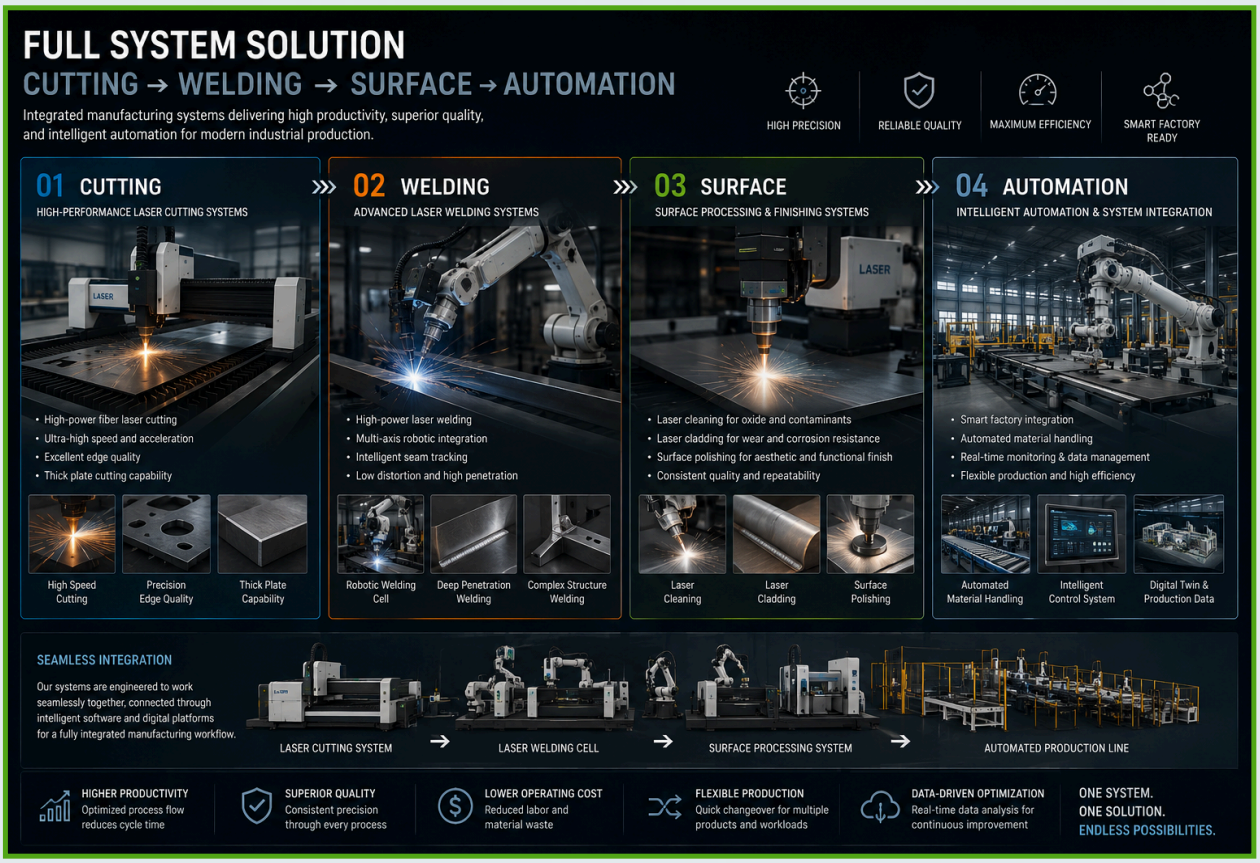
Automation — System Intelligence Layer

Robotics, control systems, and production integration
→ Coordinates all processes into a synchronized, data-driven manufacturing flow.

- Central control of full production flow
- Material handling + robotics + data integration
- Enables continuous smart manufacturing



LASER EQUIPMENT OVERVIEW



This integrated laser manufacturing system represents a shift from traditional machine-based production to a fully connected, intelligent industrial architecture. It integrates cutting, welding, surface engineering, and automation into a single coordinated platform, enabling seamless end-to-end manufacturing flow.

Industrial Transformation

Global manufacturing is evolving toward smart factories and digitalized production systems. Traditional isolated processes are being replaced by interconnected, data-driven manufacturing networks.

System Integration Logic

Each process stage functions as a connected node within a unified production ecosystem. Laser technology acts as the core execution layer, ensuring high-precision conversion from digital command to physical output across multiple applications.

Market Requirements

Modern industry demands higher flexibility, automation, and efficiency. Manufacturers are increasingly shifting toward integrated systems that reduce process fragmentation and improve production scalability.

Value & Outcome

The system delivers improved productivity, consistent quality, and extended component lifecycle performance—supporting long-term competitiveness in advanced manufacturing environments.

Future Outlook

Manufacturing is evolving toward fully autonomous and AI-driven production systems, with laser technology as a core enabler.

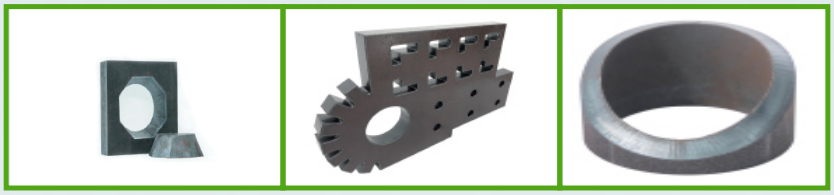
LASER EQUIPMENT CUTTING SYSTEMS

Cutting

Precision Processing Solutions for Modern Steel Fabrication

Beyond Machine Supply

As a steel trading company, we understand more than equipment.
We understand:



- steel grades
- material properties
- processing tolerance
- heat influence
- deformation risks
- downstream fabrication requirements

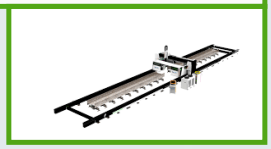
This allows us to provide laser cutting systems that are aligned not only with production targets — but also with actual material characteristics.

Integrated Steel Processing Capability

We provide integrated cutting solutions for:

Sheet Metal
Precision flat-sheet processing for industrial fabrication

Tube & Pipe
Automated profile processing for tubular structures

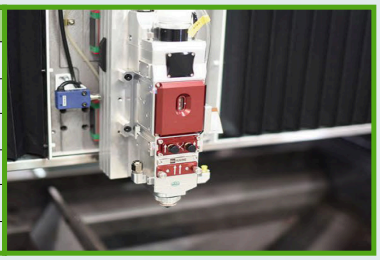


Structural Steel
Heavy steel section cutting for construction and infrastructure

Why Modern Fabrication Depends on Laser Cutting

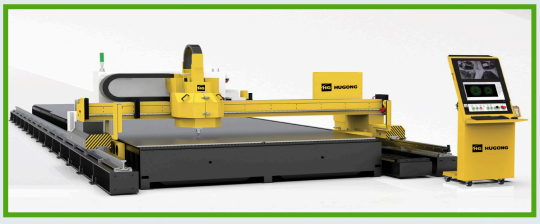
Compared with traditional processing methods such as sawing, drilling, punching, and plasma cutting, fiber laser systems deliver:

Traditional Processing	Fiber Laser Processing
Multiple processing steps	Single integrated workflow
High labor dependency	Automated operation
Manual marking and setup	CNC-controlled precision
Large heat affected zones	Minimal thermal distortion
Slower production cycle	High-speed continuous processing
Secondary finishing required	Cleaner edge quality



The Role of Cutting in Modern Manufacturing

Today, cutting is no longer viewed simply as a fabrication operation.
It has become:



- a digital manufacturing gateway,
- a production efficiency system,
- a labor optimization tool,
- and the foundation of automated fabrication.

Our Position

We provide integrated steel processing systems designed for modern industrial production.

LASER EQUIPMENT CUTTING SYSTEMS

Sheet Laser Cutting

High-Speed Precision for Flat Material Processing

Designed for Industrial Sheet Fabrication

Fiber laser sheet cutting systems are widely used across:

- general fabrication
- heavy industry
- electrical manufacturing
- agricultural machinery
- automotive components
- steel structure production

The combination of speed, precision, and automation significantly improves manufacturing efficiency while reducing material waste and downstream processing requirements.

Compatible Materials

Carbon Steel

Hot rolled and cold rolled materials

Stainless Steel

Decorative and industrial grades

Galvanized Steel

Lightweight industrial applications

Alloy Steel

High-strength and engineering-grade materials

Wear-Resistant Plate

Heavy-duty fabrication sectors

Copper & Brass

Non-ferrous precision processing

Core Processing Capability

Specification	Capability
Cutting Thickness	0.5–200 mm
Laser Power Range	3 kW – 80 kW
Positioning Accuracy	±0.03 mm
Repeat Accuracy	High precision repeatability
Nesting Software	Intelligent material optimization
Production Mode	Continuous high-speed cutting

Machine Configuration Options

Single Platform System

Compact and economical production setup

Exchange Table System

Continuous cutting with reduced downtime

Large Format Platform

For oversized industrial components

Fully Automated Production Cell

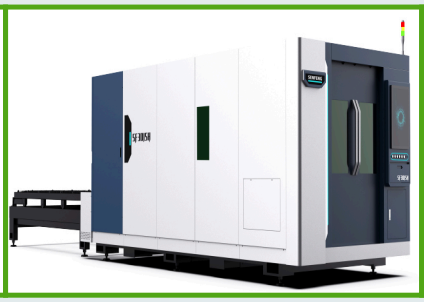
Integrated loading, unloading & sorting

Typical Industrial Applications

- Electrical cabinets
- Industrial enclosures
- Machine frames
- Agricultural equipment
- Flanges and brackets
- Chassis systems
- Mechanical components

Production Advantages

- High throughput
- Stable cutting quality
- Lower material waste
- Reduced labor dependency
- Flexible batch production



LASER EQUIPMENT CUTTING SYSTEMS

Tube & Pipe Laser Cutting

Integrated Multi-Process Profile Fabrication

Traditional Tube Fabrication Challenges

Conventional tube and pipe processing typically requires multiple standalone operations:

- Sawing
- Drilling
- Milling
- Punching
- Manual alignment & repositioning

These fragmented processes lead to higher labor dependency, longer lead time, and reduced consistency.

Integrated Fiber Laser Solution

Fiber laser tube & pipe cutting systems consolidate all key operations into a single automated platform:

- Cutting
- Drilling
- Slotting
- Bevel cutting
- Contour profiling

All processes are completed in one continuous CNC workflow.

Fully Automated Processing Workflow

The system enables end-to-end automation:

- Automatic loading & feeding
- Tube alignment & clamping
- Profile recognition & compensation
- 3D bevel cutting
- Precision hole processing
- Finished part unloading

Optional smart production integration available.

Processing Capability Overview

Specification	Capability
Tube Diameter	10–600 mm
Tube Length	Up to 12 m
Bevel Accuracy	±0.5°
Positioning Accuracy	±0.05 mm
Processing Mode	Continuous CNC automation

Typical Application Industries

- Automotive structural frames
- Furniture manufacturing
- Fitness equipment
- Construction guardrails
- Scaffolding systems
- Steel structure engineering
- Agricultural machinery

Core Industrial Advantages

Multi-Process Integration
Multiple fabrication steps completed in a single setup, reducing handling and transfer time.

Higher Production Efficiency
Significantly improved throughput with reduced downtime between processes.

uperior Dimensional Accuracy
Stable laser processing ensures consistent part quality and repeatability.

Reduced Secondary Operations
Clean cutting edges minimize or eliminate post-processing requirements.

Flexible Manufacturing Capability
Suitable for both mass production and highly customized structural fabrication.

LASER EQUIPMENT CUTTING SYSTEMS

Structural Steel Laser Processing

Intelligent Fabrication for Heavy Steel Structures

Advanced Processing for Structural Fabrication

Structural steel fabrication traditionally relies heavily on:

- manual marking
- drilling templates
- flame cutting
- repeated positioning operations

3D structural laser systems simplify these processes through automated CNC-controlled cutting.

Supported Structural Materials

H-Beams
I-Beams
Channel Steel
Angle Steel
C-Sections
Customized Structural Profiles

Processing Functions

The system supports:

- contour cutting
- locking joints
- slot cutting
- web openings
- bevel preparation
- complex node processing

Typical Applications

- Steel construction
- Bridge structures
- Offshore engineering
- Shipbuilding
- Modular buildings
- Infrastructure projects
- Heavy industrial fabrication

Specification	Capability
Working Area	Width (H)≤1500mm
	Height (B)≤600mm
	Length (L)≤12500mm
Processing Type	3D CNC laser cutting
Template Requirement	Not required
Positioning Method	Fully digital

Smart Production Integration

Optional systems include:

- conveyor integration
- robotic handling
- production scheduling
- MES connectivity

Industrial Benefits

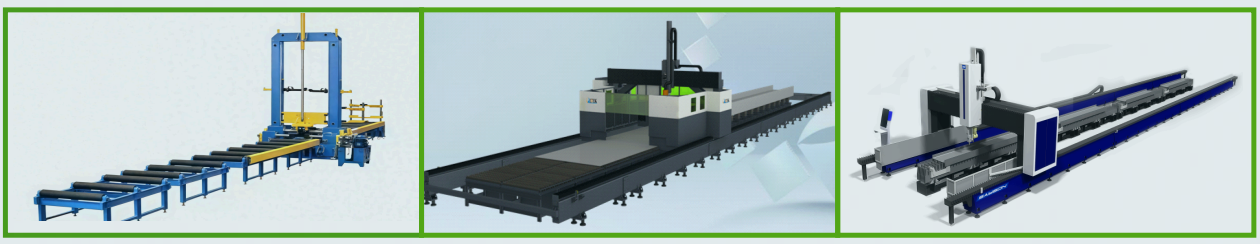
Reduced Manual Layout Work
Digital programming replaces traditional marking operations.

Improved Structural Accuracy
Higher consistency for assembly and welding preparation.

Faster Project Turnaround
Reduced fabrication cycle for large steel projects.

Complex Geometry Capability
Supports non-standard structural connections and special contours.

Lower Labor Dependency
Reduces reliance on skilled manual layout personnel.



LASER EQUIPMENT WELDING SYSTEMS

China Laser Welding Power Landscape (2026)

As of 2026, China's laser welding industry has developed into two major power segments: mature industrial systems reaching 15kW single-module output, and experimental ultra-high-power systems approaching 120kW for customized and laboratory applications.

The market is dominated by high-power fiber laser systems integrated with automation and robotic welding technologies, widely used in thick plate fabrication, shipbuilding, pressure vessels, heavy industry, and intelligent manufacturing applications requiring high efficiency and precision.

Mainstream Commercial Laser Welding Sources

Continuous Fiber Laser (Industrial Mainstream)

Manufacturer	Model	Power	Application
Raycus Laser	RFL-C15000	15kW	Industrial welding / cutting, thick plate welding
Maxphotonics	MFSC-30000	30kW	Multi-module heavy-duty welding, shipbuilding, heavy industry

Pulsed Fiber Laser (Precision / Special Welding)

Manufacturer	Model	Power	Application
Baochenxin (Max subsidiary)	MOPA Pulsed Laser	10kW	Precision welding, high-speed pulse processing

Experimental / Customized Extreme Power

Ultra-High Power Demonstration Systems

Raycus 120kW Fiber Laser System

- Primarily developed for ultra-thick plate cutting
- Supports welding capability up to approximately 74mm thickness
- Represents current industry-level extreme prototype capability
- Not yet widely commercialized for standard welding production lines

Mainstream Power Segments & Applications

Application Type	Typical Power	Main Industries
Handheld Laser Welding	1–6kW	Sheet metal, steel structures, hardware
Automated Welding Workstation	3–15kW	Automotive, pressure vessels, industrial manufacturing
Thick Plate / Hybrid Welding	15–30kW	Shipbuilding, offshore engineering, heavy machinery

Commercially Mature Power Range

15kW → mainstream single-module industrial welding
30kW → multi-module heavy-duty welding systems
10kW pulsed laser → highest commercial pulse welding source
120kW → experimental ultra-high-power prototype system

Market Direction

China's laser welding industry is rapidly advancing toward higher power density, intelligent automation, robotic welding integration, hybrid laser-arc technologies, heavy-duty thick plate applications, and new-energy manufacturing.

LASER EQUIPMENT WELDING SYSTEMS

Key Challenges Limiting Large-Scale Laser Welding Adoption

Although laser welding delivers high precision, low deformation, and automation advantages, large-scale industrial penetration remains limited due to cost, precision requirements, and process constraints.

1. High Equipment & Operating Cost

Laser welding systems require high initial investment, expensive maintenance, and complex supporting infrastructure, making overall operating costs significantly higher than traditional welding.

2. Extremely Strict Assembly Precision

Laser welding demands very tight joint tolerances, high-precision fixtures, and clean material surfaces, with minimal allowance for assembly deviation.

3. Material & Thickness Limitations

Laser welding performs best on thin to medium materials, while thick plates and highly reflective metals such as aluminum and copper remain challenging and costly.

4. High Technical & Environmental Requirements

Stable laser welding requires precise parameter control, skilled operators, clean environments, stable power supply, and controlled production conditions.

5. Production Scenario Limitations

Laser welding is most economical in large-scale automated production, while small-batch and flexible manufacturing often remain better suited to traditional welding methods.

Laser welding is most suitable for:

- Precision Thin-Wall Components
- High-Value Automated Production
- Long-Term Mass Production

Final Industry Perspective

Laser welding is not a universal replacement for traditional welding.
Instead, it represents a high-end manufacturing solution optimized for:

- Precision
- Automation
- Low deformation
- Intelligent manufacturing
- High-value industrial production

Traditional arc welding will continue to dominate low-cost, thick-plate, flexible manufacturing applications for the foreseeable future.

LASER SURFACE ENGINEERING SYSTEMS

Overview

Laser Surface Engineering Systems are advanced solutions that use a high-energy laser to modify and enhance the surface properties of metal components. Through processes such as laser cladding, hardening, and alloying, they create a strong metallurgical bond that significantly improves wear resistance, corrosion resistance, and overall durability.

With high precision, low heat input, and minimal deformation, the technology is ideal for complex and high-value parts. Integrated with automation and CNC control, it enables stable, efficient, and repeatable production across industries such as automotive, aerospace, energy, and heavy machinery.

Core Process

1. Laser generation

A focused high-energy laser beam is delivered to the work surface.

2. Melt pool formation

A localized molten pool is created on the substrate.

3. Material deposition

Metal powder or wire is precisely fed into the melt zone.

4. Rapid solidification

A dense, metallurgically bonded coating layer is formed.

Industry Applications

Laser surface engineering is widely used in high-value industrial sectors requiring durability, reliability, and precision:

1. Automotive tooling

Repair and reinforcement of stamping dies, molds, and forming tools under high wear conditions.

2. Aerospace engineering

Surface strengthening and repair of turbine blades, titanium alloys, and critical flight components.

3. Energy & petrochemical industry

Protection of valves, shafts, rotors, and sealing surfaces against corrosion and erosion.

4. Mining & heavy machinery

Restoration of crusher components, conveyor systems, and high-impact wear parts.

LASER SURFACE ENGINEERING SYSTEMS

Key Process Modules

Laser Cladding Module
- Powder / wire-based deposition system
- Wear & corrosion resistant coating layers
- Thickness control from microns to several millimeters
- Suitable for repair and surface reinforcement

Laser Texturing Module
- Micro / nano surface structuring
- Functional surfaces for friction, wetting, adhesion control
- Used for biomimetic and precision engineering surfaces

Laser Hardening Module
- Localized phase transformation without melting
- Increases surface hardness and fatigue resistance
- Ideal for gears, shafts, tooling components

Integrated Motion & Automation System
- Multi-axis robotic or gantry platforms
- CNC/PLC controlled precision scanning
- Fully automated process integration

Key Process Modules

Parameter	Typical Range
Laser Power	0.5 – 20+ kW
Coating Thickness per Layer	0.2 – 4.0 mm
Surface Hardness	20 – >70 HRC
Materials	Co/Ni/Fe-based alloys, WC composites, HEA, bronze alloys
Scanning Speed	0.5 – 24 m/min
Cladding Layer Build-up	Multi-layer, 2 – 5 mm total thickness (or more)
Dilution Rate	<10% (typical laser cladding)
Overlap Ratio	30 – 40%

Core Advantages of Chinese Laser Surface Engineering Systems

Fully Independent Supply Chain
In-house core technology ensures full independence from key external components.

High Cost Efficiency
Around 20% of imported system cost, ideal for cost-sensitive industries.

Advanced Application-Specific Technologies
Strong capability in complex tasks such as internal bore cladding and on-site repair.

Flexible Customization
Fast response and highly adaptable engineering design.

Global trend
Rapidly becoming a mainstream solution driven by efficiency and sustainability demands.

LASER EQUIPMENT AUTOMATION SYSTEMS

System Overview

The Laser Equipment Automation Systems section defines the hardware, software, and control architectures that enable precise, repeatable, and unattended operation of laser-based manufacturing processes. These systems integrate motion control, real-time sensing, machine vision, and supervisory software to transform a standalone laser source into a fully automated production cell.

Core Subsystems

Motion & Positioning Control

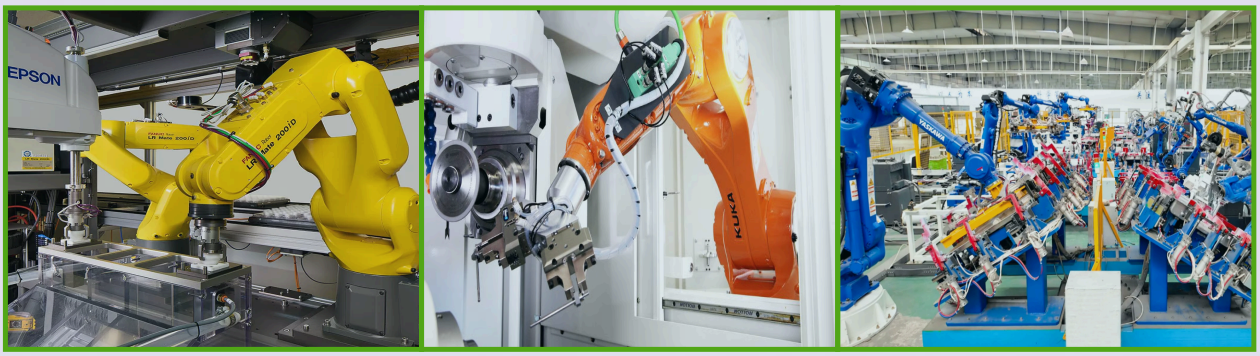
- Multi-Axis Stages: Integration of linear, rotary, and gantry systems (3 to 7 axes) with nanometer-level resolution for applications such as cutting, welding, drilling, and additive manufacturing.
- Servo & Stepper Drives: Closed-loop servo systems with encoder feedback for high dynamic response; stepper drives for cost-sensitive positioning tasks.
- Galvanometer Scanners: High-speed beam steering using closed-loop galvo mirrors for marking, engraving, and micromachining, with real-time position feedback.
- CNC Integration: Support for standard G-code (ISO 6983) and laser-specific M-codes for coordinated motion and laser firing.

Vision & Alignment Systems

- Coaxial & Off-Axis Cameras: Machine vision cameras for fiducial alignment, seam tracking, and after-process inspection.
- Pattern Recognition: Automated part detection, rotation compensation, and multi-point registration without manual fixture adjustment.
- Laser Beam Analysis: Integrated beam profilers and power meters to verify beam quality and energy delivery before each job.

Sensing & Feedback Loops

- Height Sensors: Capacitive, confocal, or optical displacement sensors for auto-focusing on non-flat or warped materials.
- Plume & Thermal Monitoring: Photodiodes and pyrometers to detect process instabilities (e.g., breakthrough in cutting, lack of fusion in welding).
- Gas & Assist Systems: Flow controllers and pressure sensors for process gas delivery, with interlocks tied to laser firing.



LASER EQUIPMENT AUTOMATION SYSTEMS

Intelligent Automation

Towards Continuous and Unmanned Production

Automation Is No Longer Optional

As labor costs rise and production cycles shorten, modern fabrication increasingly depends on automated workflows.

Today's laser cutting systems are designed not only for precision processing — but also for intelligent production integration.

Automation Solutions Available

Automatic Loading Systems
Reduce manual material handling.

Automatic Unloading Systems
Improve production continuity.

Sorting Systems
Efficient finished-part management.

Tower Storage Systems
Integrated material storage and retrieval.

Robotic Material Handling
Continuous unmanned operation support.

Digital Manufacturing Features

- Production Scheduling
- MES Connectivity
- Real-Time Monitoring
- Remote Diagnostics
- Production Data Collection
- Intelligent Workflow Coordination

Production Benefits

Conventional Production	Automated Production
Manual loading	Automated material flow
Operator-dependent	Stable repeatable operation
Interrupted production	Continuous processing
High labor intensity	Reduced labor requirement
Limited scalability	Expandable production capacity

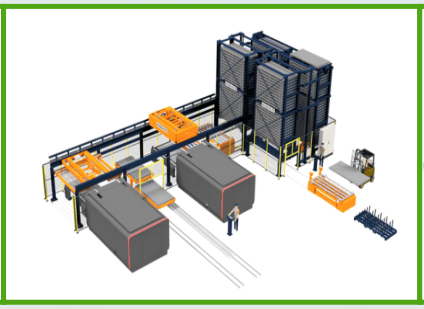
Smart Factory Direction

Integrated automation enables:

- higher throughput
- reduced downtime
- more stable quality
- scalable manufacturing growth

Key Value Statement

Automation transforms laser cutting from a standalone process into a continuous industrial production system.



LASER EQUIPMENT FUTURE OUTLOOK

Chinese Laser Technology

Is Reshaping Global Fabrication

Rapid Global Industry Transformation

Over the past decade, Chinese laser manufacturing has evolved from cost-focused production into a globally competitive industrial ecosystem.

Today, Chinese laser systems are increasingly adopted across:

- metal fabrication
- construction
- automotive
- machinery
- infrastructure industries worldwide

Smart Factory Direction

Modern Chinese laser systems are increasingly recognized for:

- production efficiency
- automation integration
- operational flexibility
- manufacturing scalability

It is now about:

- total production efficiency
- long-term operating cost
- manufacturing competitiveness

Core Competitive Advantages

Mature Industrial Supply Chain
China has one of the world's most complete laser manufacturing ecosystems.

Faster Technology Iteration
Rapid engineering updates support evolving fabrication requirements.

Competitive Automation Cost
Integrated automation solutions remain highly cost-efficient.

Scalable Manufacturing Capacity
Suitable for both growing workshops and large industrial factories.

Expanding International Support
Global installation and overseas service capabilities continue to strengthen.

Chinese Laser Cutting Industry Landscape

Application Segment	Leading Chinese Brands
Sheet Laser Cutting	Han's Laser / Penta Laser / GWEIKE / QUICK Laser / YAWEI / SHHG / JT Laser
Tube Laser Cutting	HSG Laser / Senfeng Laser / GWEIKE / QUICK Laser / YAWEI / SHHG / JT Laser
Structural Steel Processing	HGTECH / Han's Laser / QUICK Laser / YAWEI / SHHG/ JT Laser
Intelligent Automation	Han's Laser / HSG Laser / Penta Laser / Senfeng Laser / QUICK Laser
Heavy Plate Processing	HGTECH / Han's Laser / Penta Laser / QUICK Laser / YAWEI / SHHG
Entry / Cost-efficient Segment	GWEIKE / Senfeng Laser / YAWEI / SHHG / JT LASER
High-power Industrial Cutting	HGTECH / Han's Laser / HSG Laser / Penta Laser / QUICK Laser
Smart Factory Integration	Han's Laser / Penta Laser / HSG Laser / QUICK Laser / YAWEI

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