

# ABOUT AORE LASER



Shandong Aore Laser Technology Group Co., Ltd. is a high-tech enterprise specializing in the research, development, production, sales, and service of laser application equipment. Its products and services are available in over 180 countries and regions, with main product categories including sheet metal laser cutting machines, tube laser cutting machines, sheet and tube integrated laser cutting machines, 3D laser cutting machines, and laser welding machines.

The company's production base covers an area of 165,000 square meters, with an intelligent equipment manufacturing center of 110,000 square meters and an intelligent office building of 17,000 square meters. It has over 1,000 employees, including a core R&D team of over 120 members and a customer service team of over 200 members who can provide 24-hour online and offline technical support in 12 languages.

Aore Laser adheres to the principles of integrity and innovation, focusing on the laser manufacturing field with the development philosophy of "innovation excellence, win-win cooperation." It aims to become a global expert in intelligent laser applications and provide one-stop laser application solutions for global infrastructure equipment upgrades.

**165000m<sup>2</sup>**

Manufactory

**1000+**

Employees

**120+**

R&D Team  
Members

**200+**

After-sales Service  
Members



# GLOBAL ENTERPRISE



Our products are sold in more than **180** countries and regions worldwide, and we have established agency offices and service centers in over **30** countries and regions globally.

# CORE FUNCTIONS

## AORE CONTROL SYSTEM



Through torque protection, flexible speed change, corner impact prevention and other bus system controls, greatly improving equipment cutting performance and stability.



Can achieve highly intelligent and flexible cutting.

Can significantly improve equipment cutting performance and stability.

Various process database, achieving high-precision and high-quality processing.



# CORE FUNCTIONS

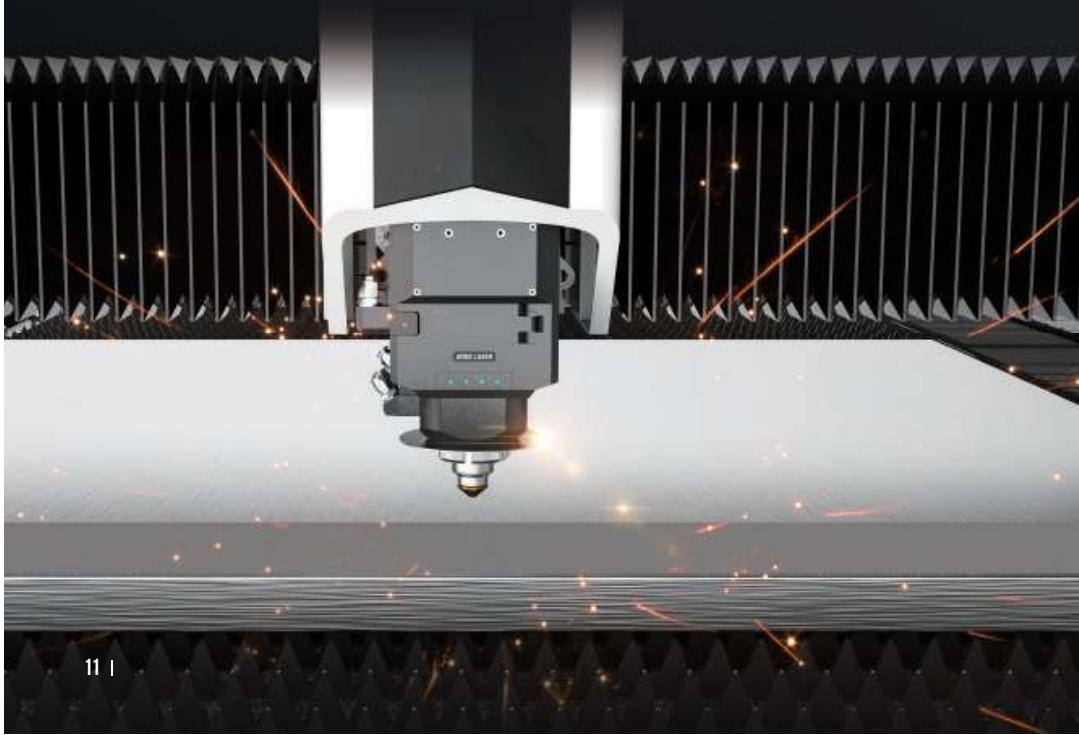
## THICK PLATE CUTTING PROCESS



For thick plate cutting conditions, developed real-time correction of temperature drift capacitor, thick plate lightning perforation, thick plate spatter vibration suppression, bright surface cutting and other processes.



Can achieve batch processing of 20-50mm metal thick plates.



Good cutting quality, high precision, stable quality.

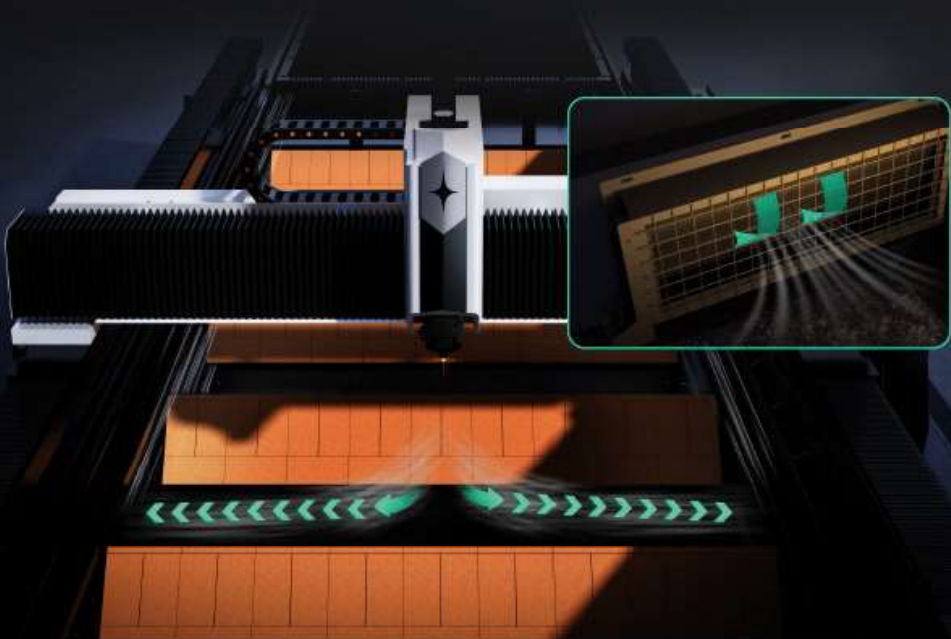


# CORE FUNCTIONS

## INTELLIGENT CLEANING MODE



Modular intelligent zoning dust removal, flip-type air door design, efficient smoke and dust removal, ensuring clean cutting area environment.



Intelligent zoning, focusing on dust removal in cutting areas, with significant dust removal effects.

Single control for air door, large-diameter dedicated air duct, better smoke and heat removal effects





# PG SERIES

## Full-protective Sheet Fiber Laser Cutting Machine

- Powerful Thick Plate Cutting, Beyond Imagination
- Bus System, Intelligent And Efficient
- Over All Processing, Intelligent And Efficient

### ● Sample



### ● Technical Parameter

Model	PG3015	PG4020	PG6020	PG8025
Laser power	1.5-40kW			
Working area	3050*1530mm	4050*2030mm	6050*2030mm	8050*2530mm
Positioning accuracy	0.03mm			
Repeated positioning accuracy	0.02mm			
Max. running speed	120m/min			

# QC SYSTEM



**01 FLATNESS**  
Processed on a large CNC milling machine for flatness.



**02 HEAT TREATMENT**  
Heat treatment process to ensure machine stability and prevent deformation.



**07 PRECISION INSPECTION**  
Precision testing.



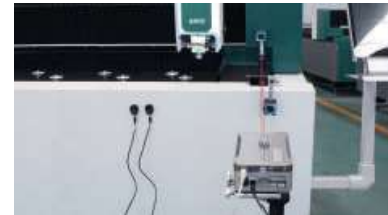
**08 HARDNESS INSPECTION**  
Hardness testing.



**03 PARALLELISM INSPECTION**  
Assembly and adjustment of rack parallelism accuracy.



**04 VERTICALITY INSPECTION**  
Checking the perpendicularity of the marble inspection bed.



**09 DETAIL INSPECTION**  
Multiple inspections for each detail.



**10 MASS PRODUCTION**  
Skilled techniques and advanced manufacturing processes for mass production.



**05 STRAIGHTNESS INSPECTION**  
Laser collimator inspection of guide rails.



**06 PRECISION INSPECTION**  
Laser interferometer to ensure the overall machine precision.



**11 AGING TEST**  
72-hour non-stop aging test.



**12 CUTTING TEST**  
12-hour laser cutting test.

# FULL INDUSTRY CHAIN MODEL



## LASER CUTTING

Accurate cutting, minimal error, no dimensional errors caused by cutting.



## BEVEL WELDING

Equal strength through bevel welding and seamless welding, ensuring the bed achieves equivalent strength.



## STRESS RELIEF ANNEALING

Step-by-step heating to 580 degrees for annealing, followed by 1-2 days of aging treatment to release internal stress and eliminate it.



## SANDBLASTING AND SPRAYING

Using the impact of high-speed sand flow to clean and roughen the surface of the bed, followed by spraying to create a smooth and bright permanent coating, achieving decorative and anti-corrosive purposes.



## ROUGH MACHINING

Removing most of the machining allowance from the workpiece to bring its shape and size close to the finished product requirements, then allowing for natural aging for one month to ensure minimal deformation of the guide rail mounting surface, not exceeding 0.02mm/M.



## PRECISION MACHINING

Removing very little machining allowance from the surface of the finely machined workpiece to achieve high machining accuracy and very low surface roughness values.





# AFTER-SALES SERVICE



EVERYONE FROM AORE HAS AN DREAM



LIGHT UP THE WORLD WITH GREEN



AND KEEP WORKING ON IT

## PRE-SALES SERVICE

In order to help customers better understand the laser cutting equipment related product details, functional advantages, market conditions, AORE laser to provide customers with a full range of laser cutting equipment consulting services, and according to the needs of users, provide free proofing, trial machine services, welcome to the factory to visit the equipment.

## MID-SALES SERVICE

AORE Laser intimate to the customer's point of view, according to the actual production situation of customers, customized professional laser processing solutions and detailed technical guidance for customers; The laser cutting equipment of different formats and different power can be customized according to the needs of customers to meet the different production needs of customers.

## AFTER-SALES SERVICE

Professional after-sales engineers will provide customers with free installation and commissioning services according to customers' actual site conditions, to ensure the highest performance of the equipment, and provide customers with a complete set of equipment materials and professional training guidance, to solve various problems in the operation and use of the equipment.