ADH MACHINE TOOL

LASER CUTTING MACHINE

ULJM5035

ADH MACHINE TOOL

Xinshi Industrial Zone, Bowang District, Ma' anshan, China
+86-555-6760666 I +86 136 0555 9170
info@ adhmt. com
www. adhmt. com

CONTACT US

COMPANY PROFILE

Established in 2002, ADH Company is situated in Ma'anshan City, Anhui Province, just 30 kilometers from Nanjing Lukou Airport. Our expansive 2,000,000 square meter facility specializes in manufacturing press brakes, hydraulic shearing machines, laser cutting machines (including automatic production units), CNC turret punches, intelligent flexible bending centers, and sheet metal automation equipment. As a leading high-tech manufacturer prioritizing R&D and innovation, we hold numerous patents and industry certifications.

2002	6000 +	120 +	100 +
Founded	Annual Production	R&D Personnel	Exported Countries

Mission

We are committed to research and development, improving product and service quality, in order to establish a globally renowned sheet metal manufacturing machinery center.

Vision

Our goal is to become a highly respected sheet metal support service provider, earning the trust of customers and the pride of employees.

Values

Innovation, Lean Manufacturing, Integrity, Win-Win.

ADH MACHINE TOOL

LASER CUTTING MACHINE

Precision

ULJM5035 Series

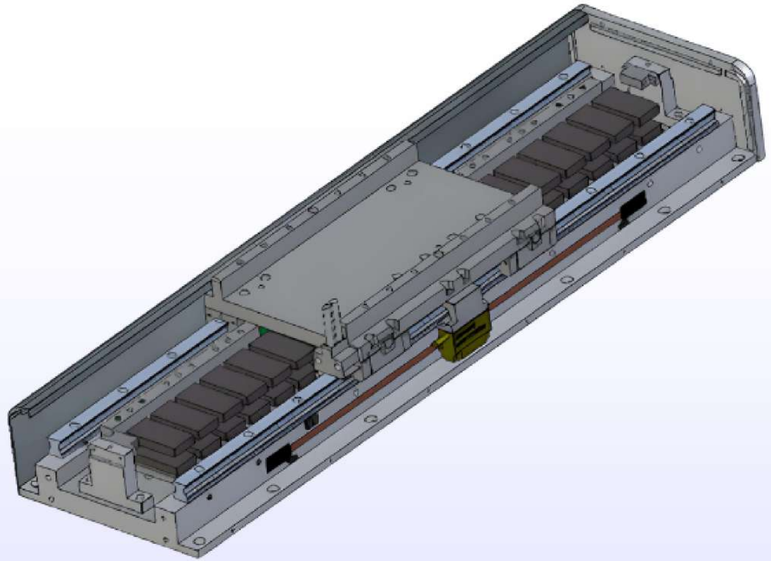
- Ultra-high precision, with cutting errors as low as ±0.01mm,meeting the demands of precision processing.
- High-speed performance, with a maximum operating speed of up to 250m/min, significantly boosting production efficiency.
- Its large format support allows for processing dimensions of 5000mm × 3500mm, easily handling large-size processing needs.
- Equipped with powerful 2kW to 20kW lasers, suitable for cutting a variety of materials.
- The intelligent control system features an automatic focusing function, ensuring efficient cutting and ease of operation.
- The robust and durable stable bed structure guarantees high-precision performance during prolonged operation.

ADH MACHINE TOOL

PRODUCT DETAILS

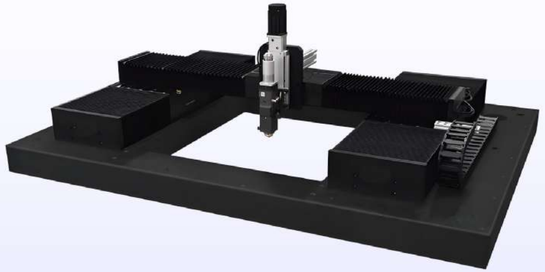
Linear Motor

- Linear motors are characterized by high precision, high speed, and zero backlash, with operating speeds up to 10m/s, positioning accuracy of ±0.001mm, smooth motion, and quick response.
- Their contactless, low-maintenance design offers a longer lifespan and less wear, making them the preferred choice for efficient and reliable drive systems.



Marble Precision Platform

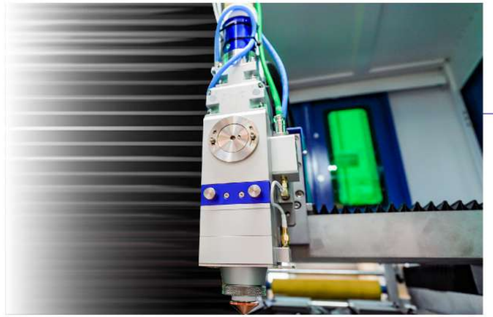
- Adopting a marble precision platform,equipped with a gantry-integrated closed structure.
- It has excellent rigidity,earthquake resistance and high-speed stability,efficiency and durability.



Lightweight Design

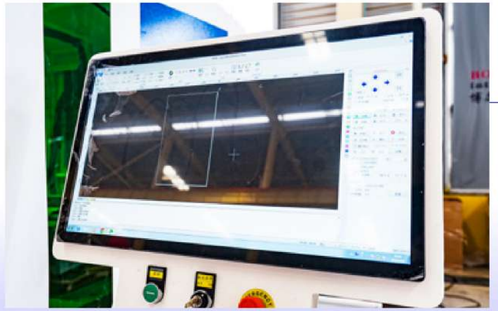
- The crossbeam adopts a lightweight design and has good acceleration performance.
- Precision machining is carried out using CNC gantry milling machines to ensure the accuracy of movement.

ADH MACHINE TOOL



Precision Laser Cutting Head

- High-efficiency and precise laser cutting head, integrating cutting-edge technology to meet complex processing needs.
- Low loss, high performance, helping you achieve excellent intelligent manufacturing.

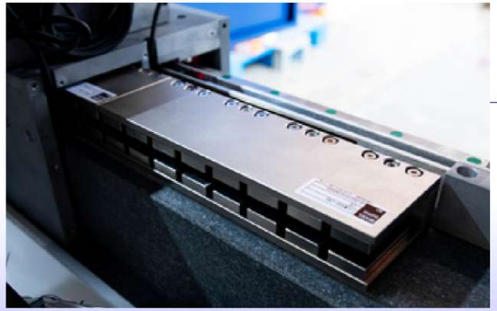


Rear Protection Device

- Photoelectric technology actively detects and prevents potential hazards.
- Targeted Finger Protection: Specifically safeguards fingers from harm, minimizing injury risk during operation.

Fiber Continuous Laser

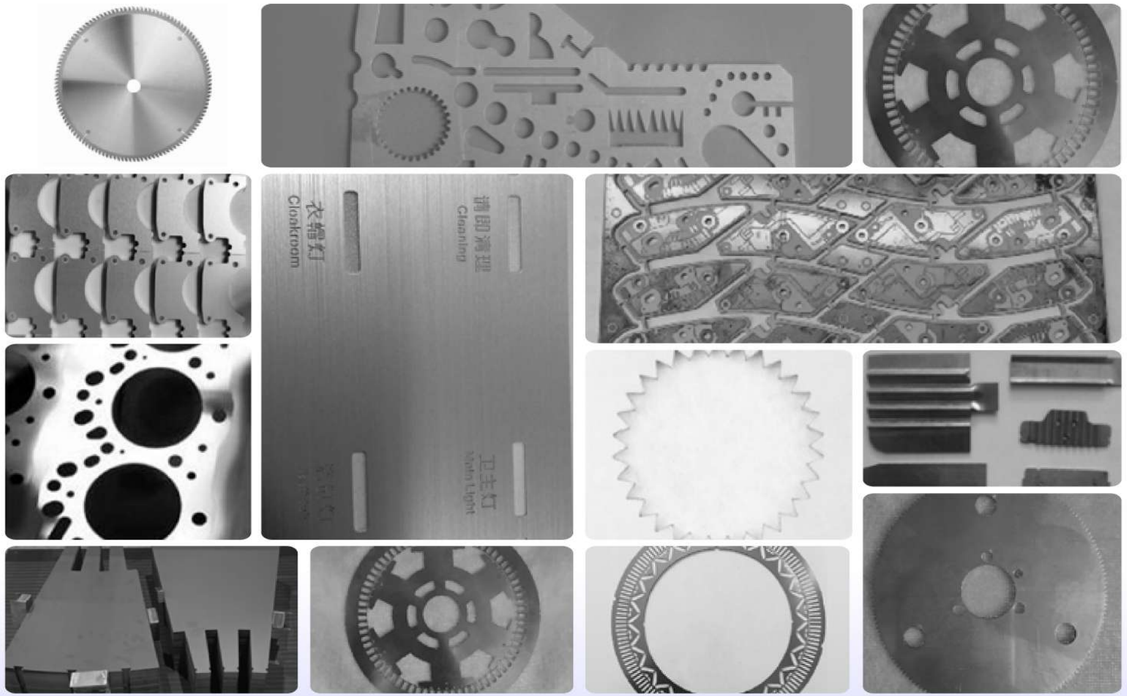
- Our Fiber Continuous Laser, with a power range of 500W-20,000W and a lifespan exceeding 100,000 hours, offers precise and efficient performance for various industrial applications such as cutting, welding, and marking.
- The modulation frequency of the fiber laser is up to 50kHz, with rise/fall times ofless than 20 microseconds.



Closed-loop Feedback System

- This equipment adopts an imported linear motor,high-precision guide rail and 0.5um high-precision grating ruler closed-loop feedback system,which has the characteristics of fast speed,high precision and low maintenance rate.

Industry Applications



Workpiece Display

3C Industry Products

- Small metal thin-shell components suitable for 2D laser processing of 3C product shells (computers, communication, and consumer electronics, collectively referred to as "3C small appliances").

Motor Products

- High-precision cutting of stator and rotor silicon steel sheets for motors.

Automobile Tire Mold

- A small piece of steel used to cut tire molds.

Metal Glasses Industry

- Used for cutting glasses legs and frames.

Other Industries

Precision micro processing can be used for metal and alloy thin sheets.

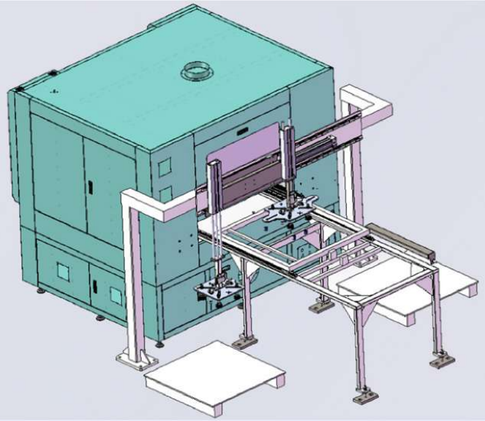
Expanded Peripherals

Automatic Loading and Unloading Device

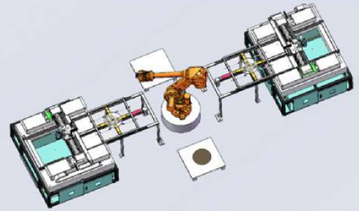
Composition:

- Loading and unloading racks (can be equipped with AGV cart or manual loading)
- Vertical loading and unloading mechanism
- Horizontal movement mechanism
- Mobile workbench
- Workbench clamp and positioning device

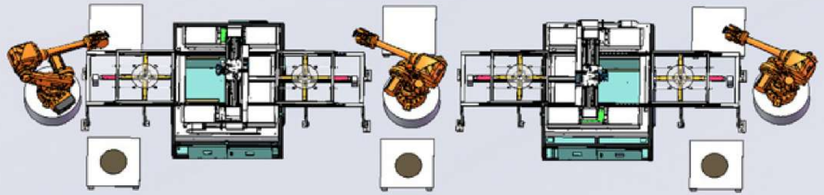
Plan 1



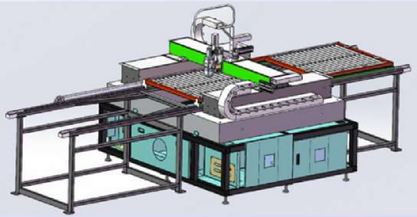
Plan 2



Plan 3



Plan 4



Machine Configuration

ULJM5035 Series

SPECIFICATIONS		
Serial Number (A)	Name (B)	Type/Brand (C)
1	Control system	Friendess
2	Fiber laser	BWT
3	Special precision cutting head	WSX
4	Precision linear motor	Yokogawa
5	0.5um precision grating ru	Renishaw
6	Chiller	HanLi
7	Industrial computer (IPC)	/
8	Z-axis motion controller	Panasonic
9	Marble workbench	/
10	Programmable Logic Controller (PLC)	Inovance
11	Motor	Leadshine

Technical Parameters

ULJM5035 Series

SPECIFICATIONS	
Machine Model	ULJM5035
Input power	5000-8000W
Mainframe size	1200*1200*2200mm
X-axis travel	100-315mm
Y-axis travel	535mm
X/Y axis repeat positioning accuracy	±0.01mm
Worktable precision	‹0.01mm
Cooling method	External water cooling
Transmission mode	Linear motor+0.5 um grating ruler
Cutting thickness	0.1mm-4mm
Processing speed	20m/min
Maximum acceleration	1.5G