About Us

Shandong Oree Laser Technology Co., Ltd. is a high-tech enterprise integrating R&D, production and sales of laser application equipment.

66000m²

Manufactory

The company has a manufactory of 66000 square meters, including modern standard factory buildings of 4000 square meters and smart office building of 6000 square meters.

1,000

Over 1000 Employees

The company has more than 1,000 outstanding employees, including more than 120 professional core R&D team members, and some experts with more than 15 years experience of laser filed.

150+

Products are exported to 150+ countries and regions

The products are exported to more than 150 countries and regions including Russia, the United States, South Korea, India, Thailand, Poland, Vietnam, and Malaysia.

30

International certification, patent

It has obtained ISO9001, RoHS, CE and FDA international certifications, and has more than 30 utility model patents and appearance design patents.

6

Major product series

Products mainly include Flatbed fiber laser cutting machine, Tube fiber laser cutting machine, Sheet&Tube dual-use fiber laser cutting machine, 3D fiber laser cutting machine and Hand-held welding machine.

INDUSTRIES

Wide application field

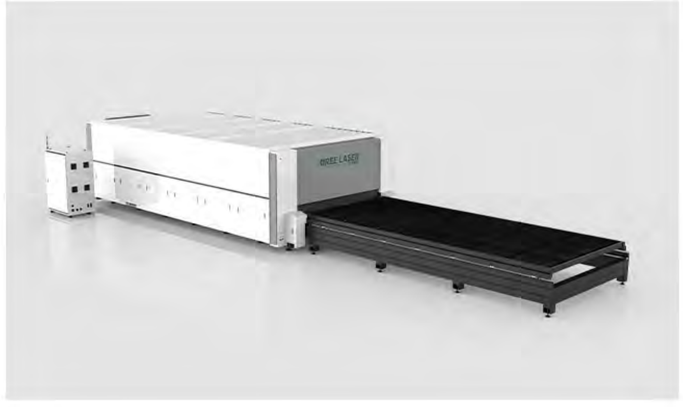
Products have been widely used in electronic appliances, precision machinery, integrated circuits, auto parts, kitchen and bathroom hardware, smart home, handicraft processing, fashion and lighting industries.

MYRIAWATT FIBER LASER

Protective Cover Is Safer

Protection Fiber Laser Cutting Machine OR-PH

Exchange Platform • Super High Precision



Fully Enclosed Protective Cover

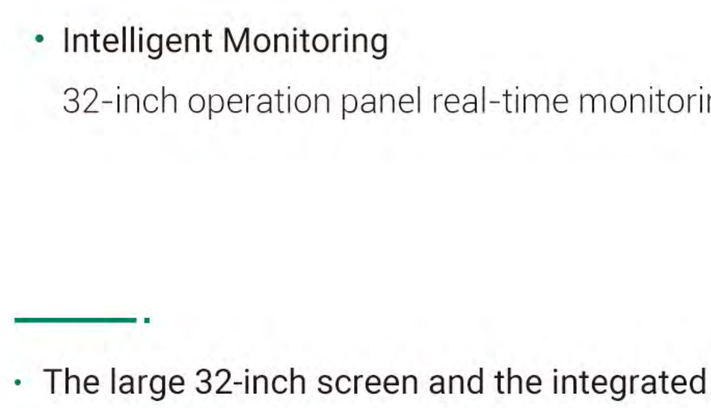
• Built-in Camera Monitoring

• Rear Camera Monitoring

• Intelligent Monitoring

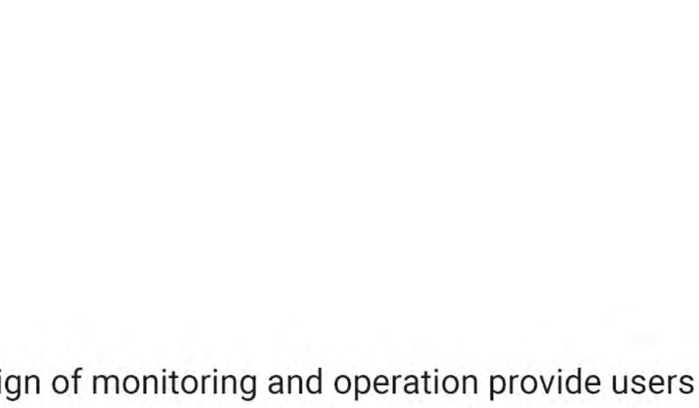
32-inch operation panel real-time monitoring

- The large 32-inch screen and the integrated design of monitoring and operation provide users with the ultimate experience;
- The protective cover has a built-in camera to monitor the machine without stopping the machine during operation, which is convenient for the operator to observe the cutting process in real time;
- The rear camera of the outer cover is convenient for the operator to monitor the side and rear dynamics in real time



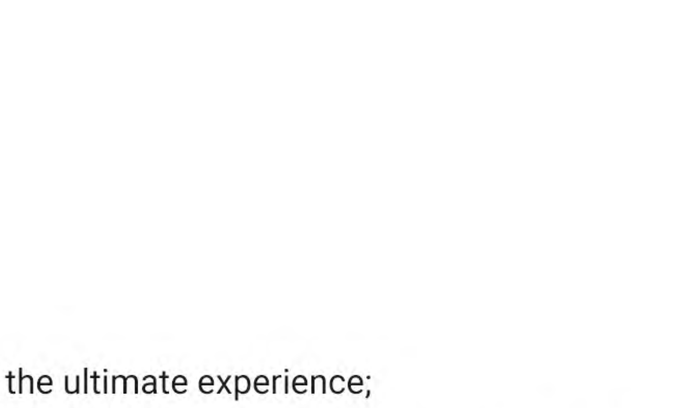
Protective Cover

Fully enclosed design, internal dust is filtered to discharge.



CE Standard Protective Glass

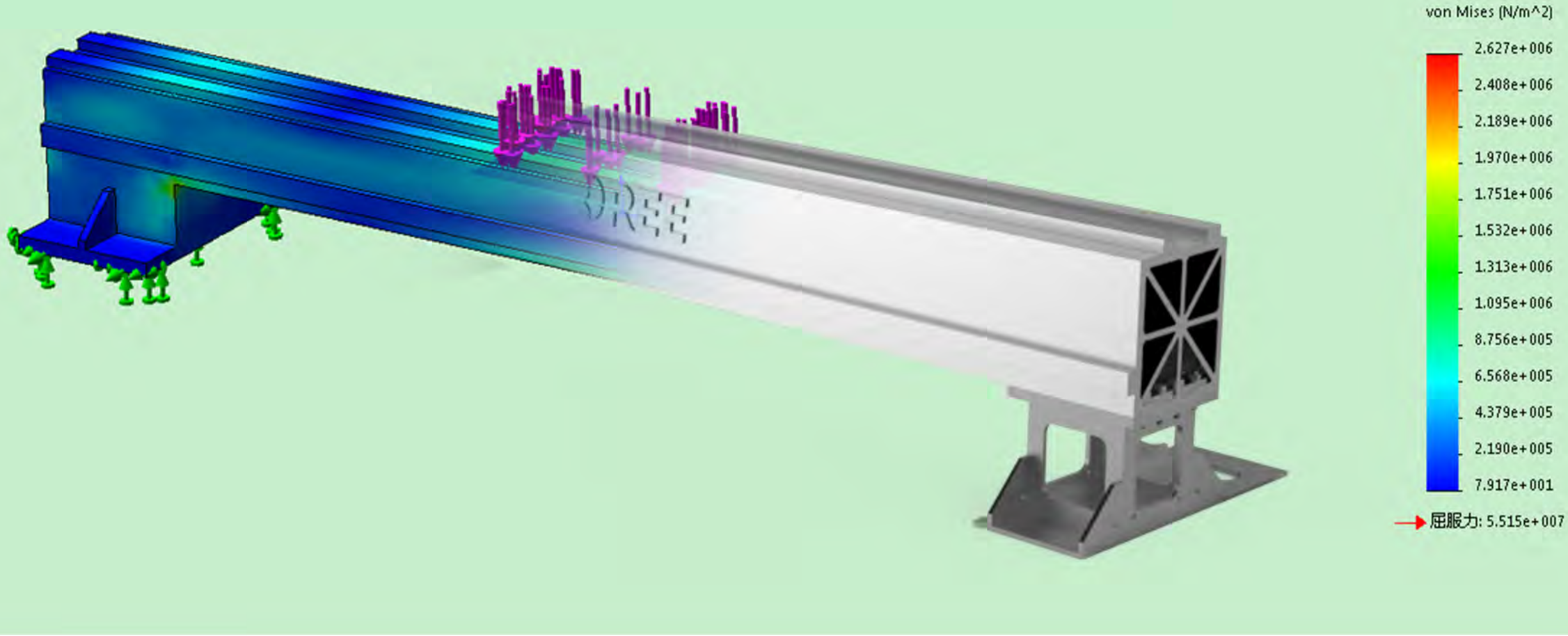
The observation window adopts European CE standard protective glass, which makes eye protection safer.



Receiving trolley

Using patented double bending technology, effectively improve the carrying capacity and service life of the trolley.

The Fifth-generation a'Aviation Aluminum Beam



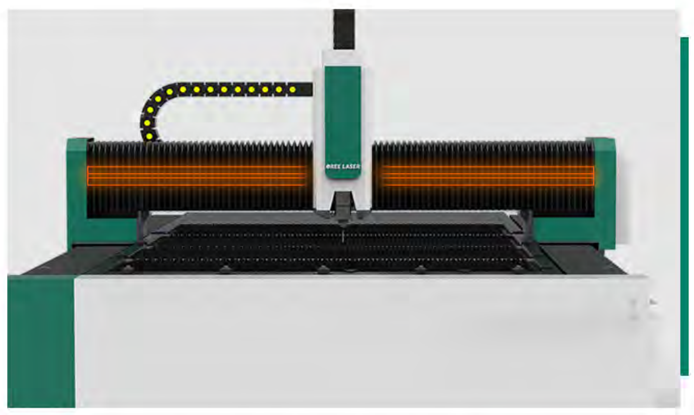
- In order to improve the structure of the beam and optimize its dynamic performance, the R&D staff of Oree took advantage of the previous 4 generations of beams and used finite element analysis to ensure the stability of the beam structure;
- Under the condition of normal operation of the laser cutting machine, physical monitoring was observed for 30 days;
- The structural stability and dynamic performance meet the expected standards, and finally the fifth-generation aviation aluminum alloy beam was successfully developed.

T6 Heat Treatment Process

The whole is processed by **T6 heat** treatment process to make the beam obtain the highest strength. Solution treatment increases the strength and plasticity of the beam, and improves the corrosion resistance of the alloy; complete artificial aging makes the beam obtain the maximum strength (tensile strength), and obtains the hardness and ductility by controlling the effective **temperature and holding time.**

Stop Structure

The beam is specially equipped with a **"stop structure"**, the convex stop and the concave stop are tightly locked, and the strong stop of the side wall is on the inner side to resist external forces. The overall structure can ensure that the beam does not move, and the structure is stronger.



Lightweight And High Speed

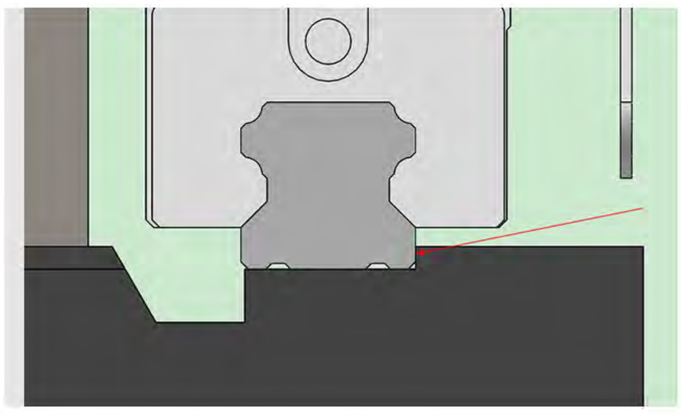
OREE's newly developed and upgraded mass-produced beams optimize and reduce their weight while ensuring structural stability, ensuring their ultra-high response speed.

Duplex high-strength plate welding bed

Duplex high-strength plate welding machine bed, mortise and tenon structure, natural aging treatment after 24-hour furnace annealing, adopts integrated processing technology of high-precision gantry machine tools from well-known European and American brands, and its long-term use accuracy is improved to more than 65% compared with similar products.

Fire-resistant brick fire-proof design

It prevents the bed from expanding and deforming due to long-term heat, effectively reducing laser damage to the bed, and providing a strong guarantee for users to cut thick plates in batches for a long time. At the same time, the service life of the bed is prolonged.



Against wall structure

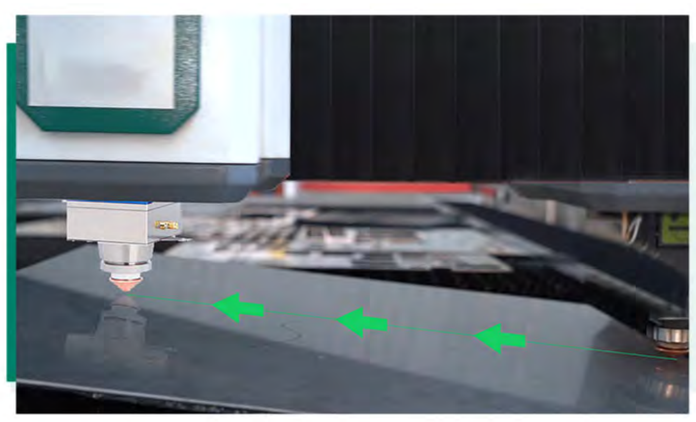
The guide rail installation adopts the combined positioning of the guide rail against wall and the manganese steel guide rail positioning block to ensure the stability of the overall accuracy of the machine tool after high-speed operation.

Stress annealing

The overall stress annealing treatment method is adopted to eliminate thermal stress, reduce the deformation of the bed, and significantly extend the service life of the bed, and it will not be deformed for 20 years.

Automatic Focusing Laser Head

The German Precitec laser head is made of high-quality materials in accordance with advanced technology. It is strong and durable; it can achieve "online" measurement during the production process, and the measurement is accurate and rapid.



Laser Head Follow-up Function

Follow the change of the height of the board, don't worry about the unevenness of the board affecting the cutting effect.

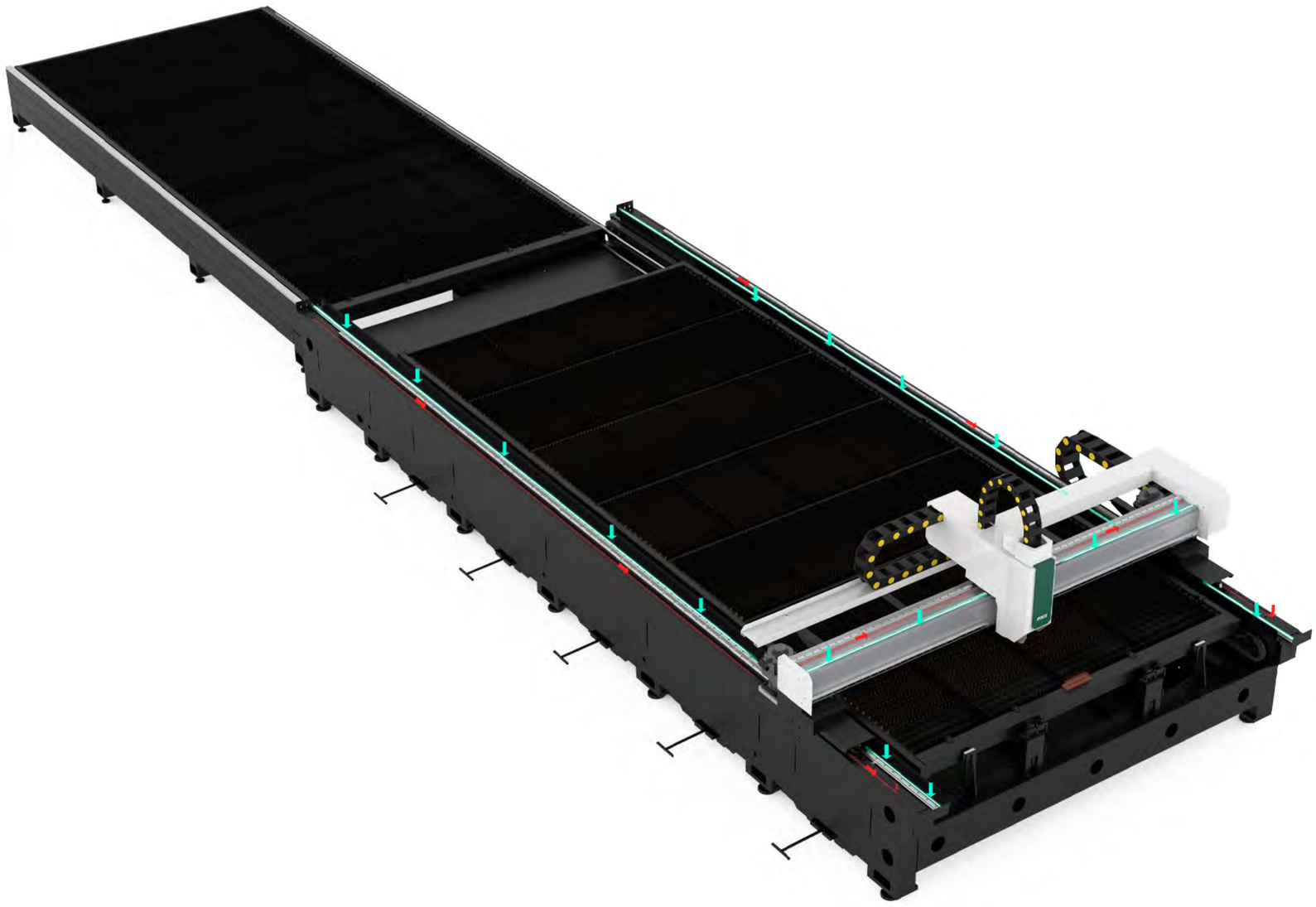
Automatic Cleaning

Equipped with laser head brush, which can automatically clean the nozzle, which is efficient and worry-free.

Long Service Life

The protective lens is continuously monitored; the internal structure of the laser head is completely sealed to prevent the optical lens from burning due to dust.

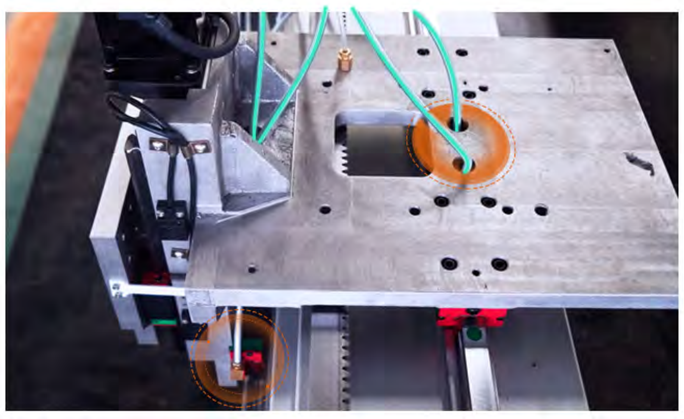
Automatic Lubrication System



Whole body layout, automatic lubrication of guide rails and racks.

Automatic Lubrication

The software controls the oil pump to automatically perform multi-point lubrication, and the lubrication times and time intervals are manually controllable, saving labor time.



Multi-point Lubrication

Automatic lubrication system for automatic lubrication of guide rails, sliders, screws, racks and other points, reducing equipment strain rate.

Waste Oil Recycling

Specially set oil return tank, which can recycle and centrally dispose of lubricating waste oil. Humanized design ensures the cleanliness of the equipment body.

Production lines

The QC quality control system under the "whole industry chain" mode is in the quality loop of equipment production. Each link requires quality management personnel to conduct real-time supervision in accordance with the requirements of operating standards and operating procedures, so as to ensure that the equipment is processed and assembled. The debugging end, the supervision end and other links realize the quality controllable, so that it meets the quality technical requirements.

- LASER CUTTING

Accurate cutting, small error, will not cause plate size error due to slitting

- GROOVE WELDING

Groove welding and seamless welding are used to make the plates (pipes) reach equal strength butt, and ensure that the bed reaches equal strength

- STRESS ANNEALING

Stepwise increase temperature to 580 degrees for annealing treatment, and then aging treatment for 1-2 days, release the internal stress of the bed, the internal stress is basically eliminated.

- SANDBLASTING

The impact of high-speed sand flow is used to clean and roughen the surface of the bed. After spraying, the bed can form a smooth and bright permanent coating film to achieve the purpose of decoration and anti-corrosion.

- ROUGHING

Cut most of the machining allowance from the workpiece to make the shape and size close to the requirements of the finished product. Leave it for another month to achieve natural aging and ensure that the deformation of the rail mounting surface is extremely small, not exceeding 0.02mm/M.

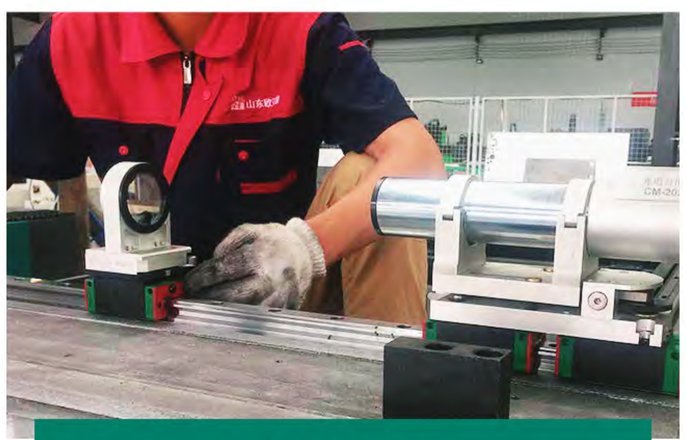
- FINISHING

A few machining allowances are cut from the surface of the finely machined workpiece to obtain high machining accuracy and a small surface roughness value.

Production lines

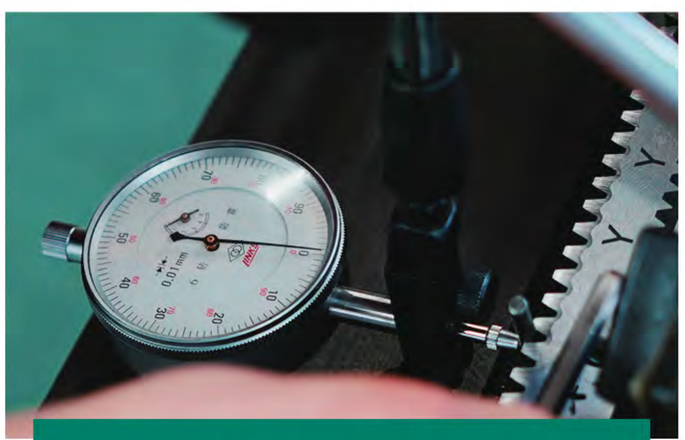
Bed Foot Installation

Adjust the height of the feet according to the test results of the strip level to ensure the accuracy of subsequent installation.



Rail Installation

Use photoelectric autocollimator to detect the straightness and flatness of the guide rail to ensure that the detection value is within the standard range.



Rack Installation

The relative position of the guide rail and the rack is locked by the measuring rod and the multi-point position is clamped. After the distance is detected by the dial indicator, data statistics and analysis are performed to ensure that the two are parallel.

Beam Installation

After the beam is installed, use a three-coordinate measuring instrument to check the coaxiality to ensure the relative perpendicularity of the X/Y/Z three-axis

Positioning Accuracy Inspection

The laser interferometer tests the X-axis positioning accuracy to ensure the accuracy of the whole machine.

Positioning Accuracy Inspection

The laser interferometer tests the Y-axis positioning accuracy to ensure the accuracy of the whole machine.

Laser Power Meter Test

Ensure that the laser output power of the laser is within the specified range

72h Machine Aging Test

Simulate the high-intensity test of various harsh conditions in the actual use of the equipment, and at the same time, according to the requirements of use, rationalize the improvement to ensure the factory pass rate and improve the reliability of the equip-ment

Pack And Ship

Adopt sealed composite aluminum foil moisture-proof low-pressure packaging and thick wooden boards to protect the fuselage to prevent bumps and collisions during shipping, and minimize unnecessary mechanical losses that may occur during transportation.

AFTER-SALES SERVICE

OREE LASER

EXHIBITION SILHOUETTE

OREE LASER