

ECONOMICAL AND PRACTICAL

— Cost-effective —

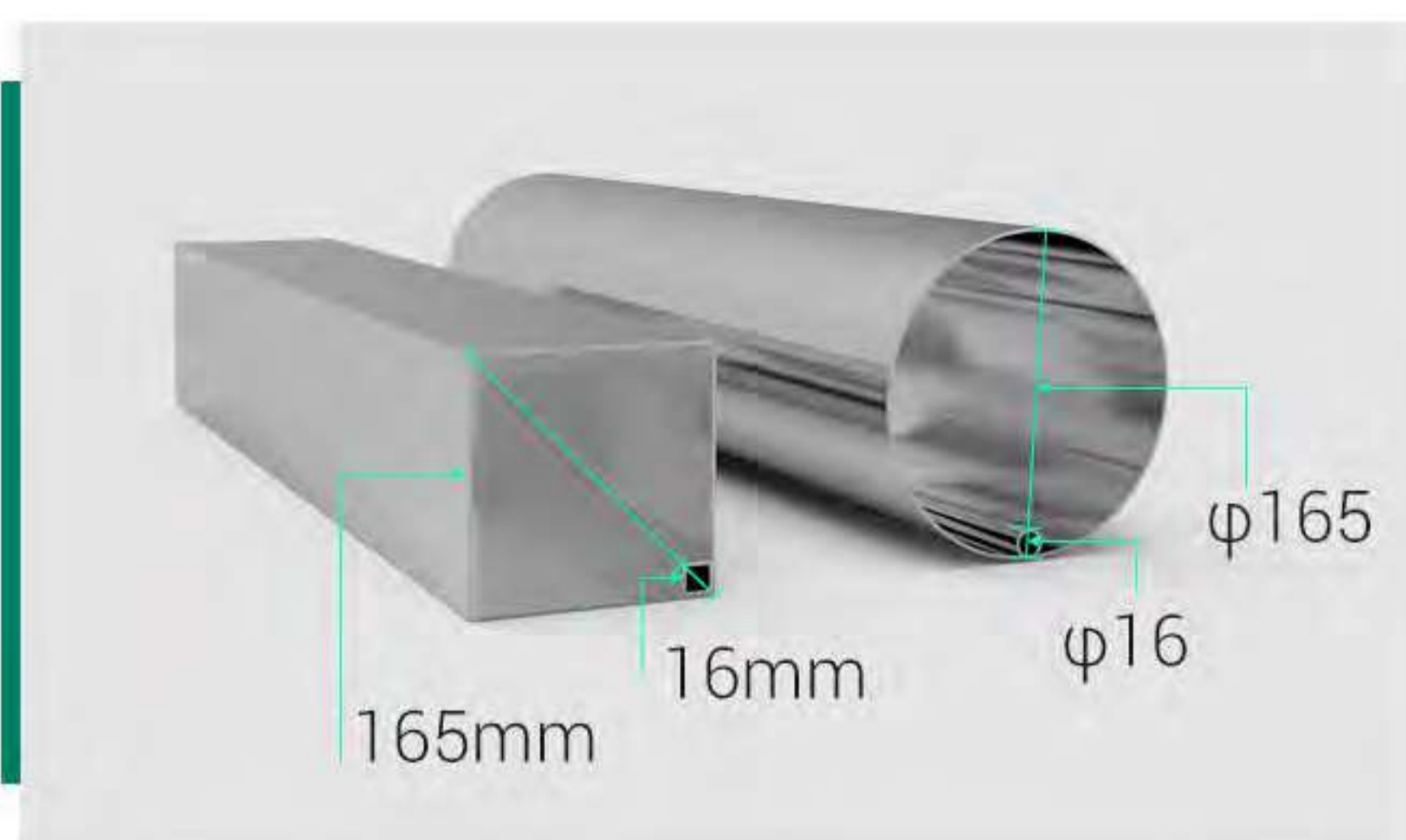
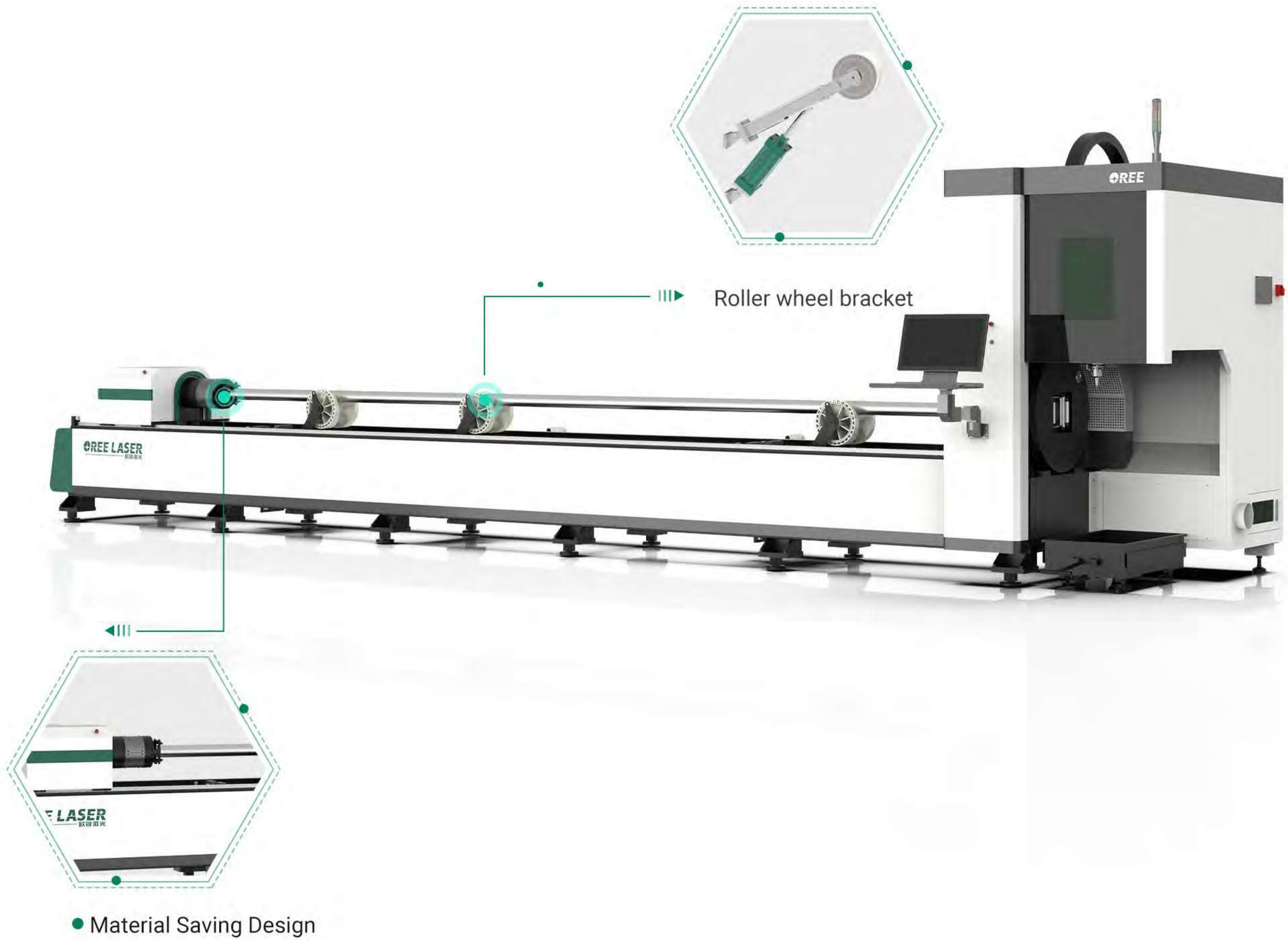


Economical fiber laser cutting machine OR-TL6020

Dual Pneumatic Chucks • Linear Module Beam • Pneumatic Chuck

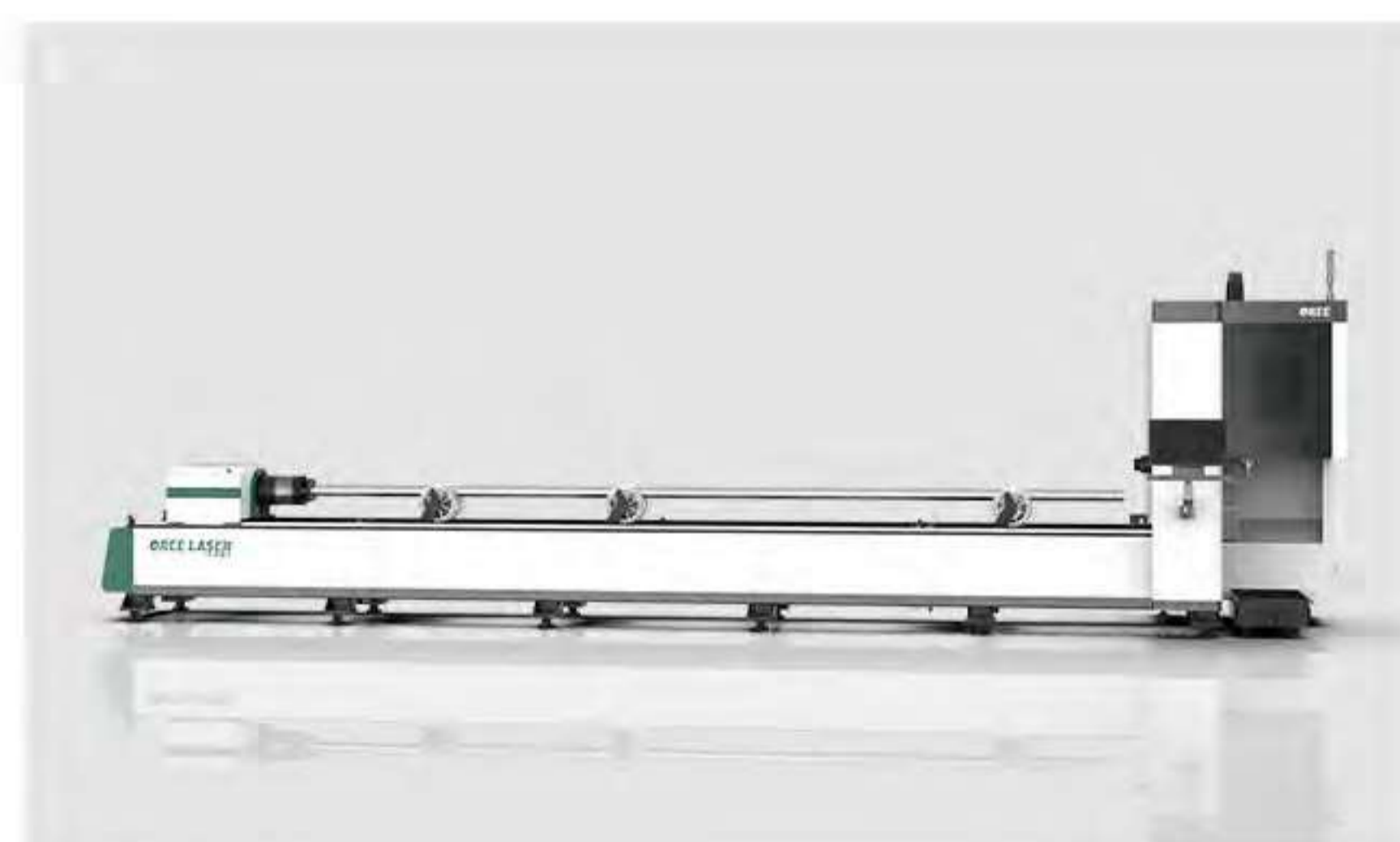


Wider pipe clamping range



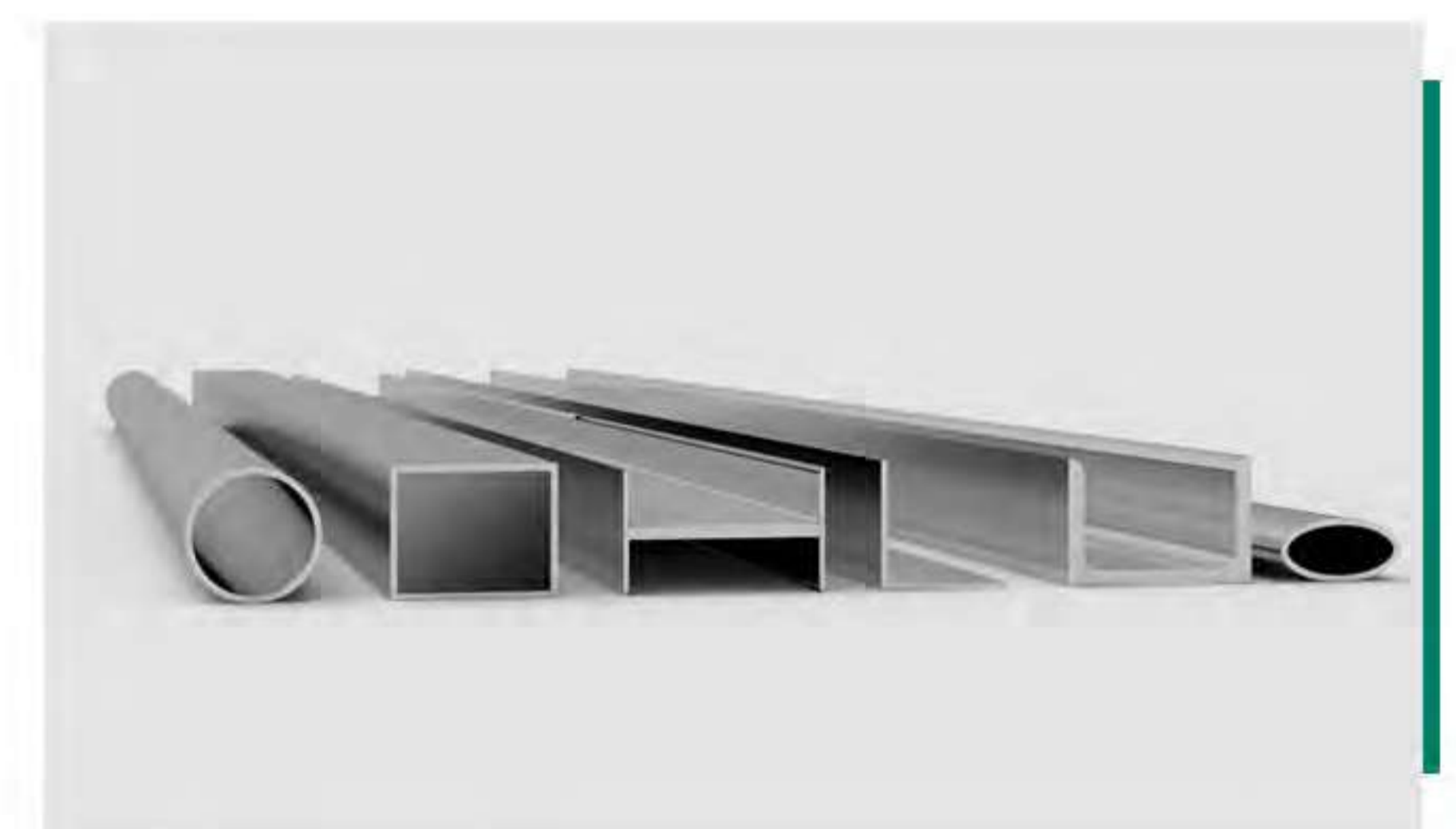
The Pipe Blessing Range Is Wide >>>

The pipe blessing range is wide, the maximum clamping diameter is 165mm Round tube φ16-φ165, and Square tube side length is 16 * 16mm-165mm x 165mm,



Longer Pipe >>>

Maximum feeding length 6500mm
The single pipe has a large load-bearing range, up to 200kg (30kg/m)



Various Shapes Of Pipe Materials >>>

Support the cutting of various shapes of pipe materials, such as I-beam, channel steel, angle steel, elliptical pipe, waist pipe, multi-deformed pipe, etc.

|| Front And Rear Automatic Self-centering Pneumatic Chuck



- Tube laser cutting machine can realize the possible size and shape feature processing of the complicated tube structure like cutting, chamfering, grooving or hole, scoring and other.



Automatic self-centering pneumatic chuck

Front and rear dual pneumatic chucks, maximum clamping diameter **165mm**. The chuck comes with a self-centering function, which makes it more convenient for pipe clamping and self-centering, reducing manual clamping centering errors.



Gear Transmission >>>

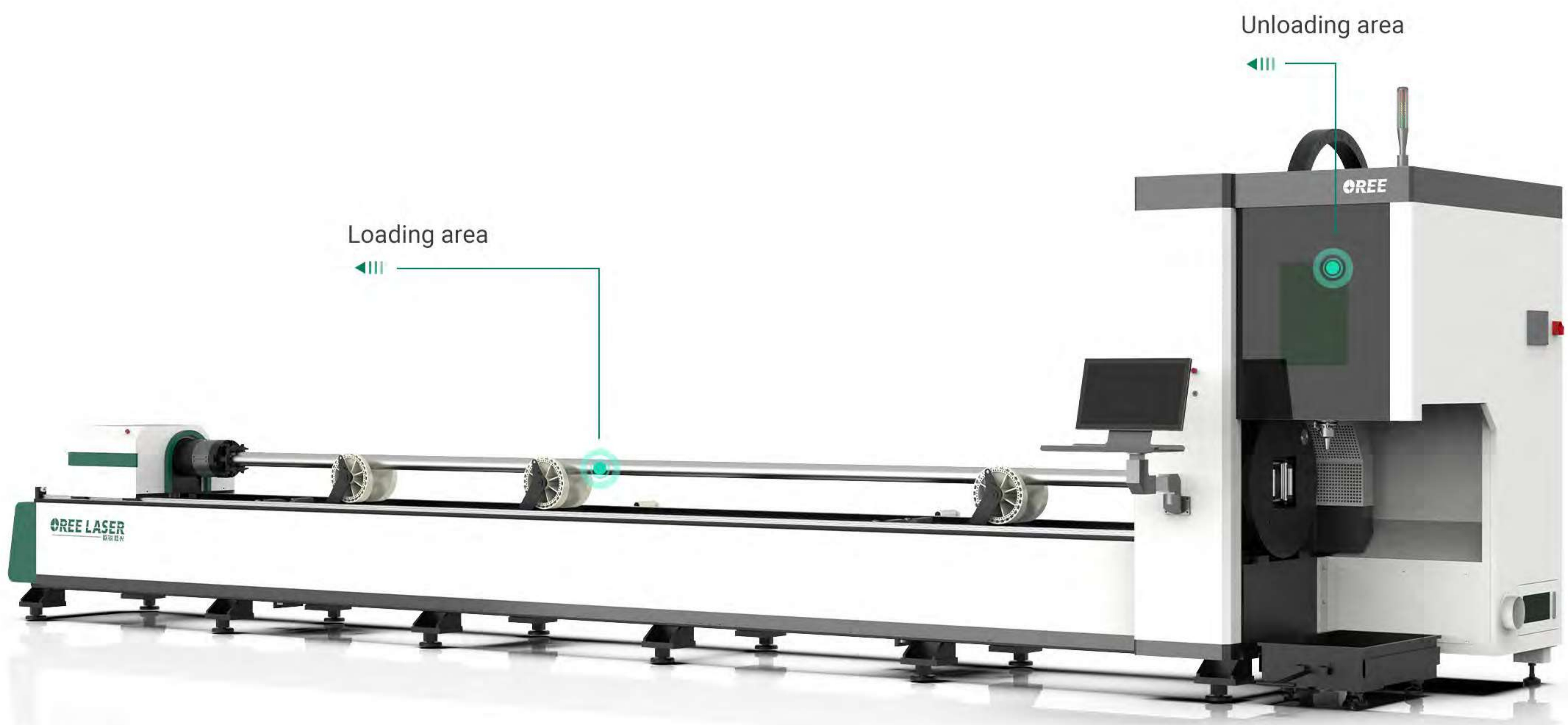
Upgrade the precision gear transmission, while ensuring the core material having enough toughness to buffer the external impact load; extend the life of the transmission structure and improve the stability.



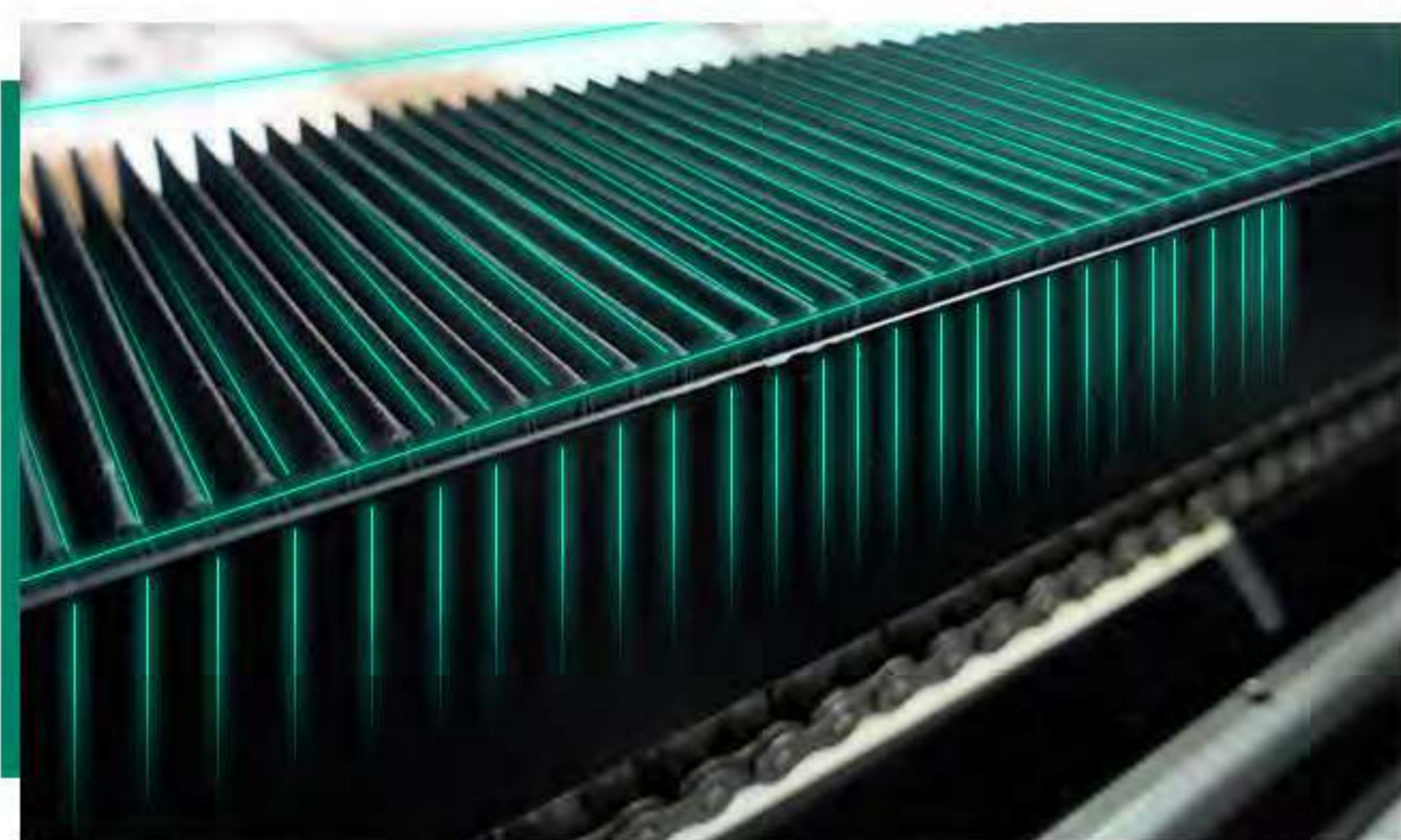
Material Saving Design >>>

Optimize front and rear pneumatic chuck structure, extend rear chuck jaws, more space for card movement, the remaining amount of material can be reduced to **80mm**, Save user costs.

Protective Cover With Visible Window

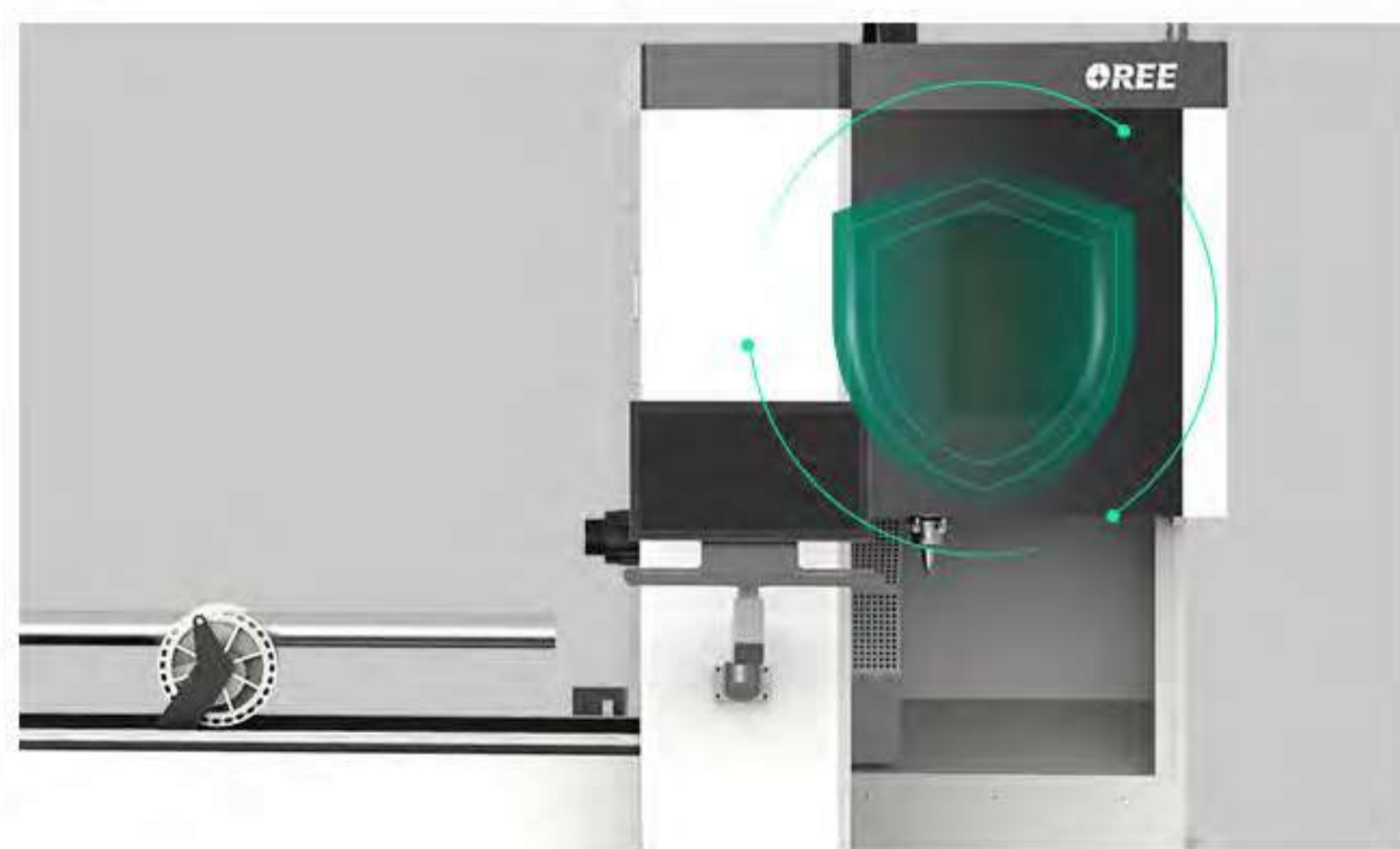


It realizes the clever separation of the feeding area, the unloading area and the pipe cutting area, reducing the mutual interference of different areas, and the production environment is safe and stable.



Burn-proof Partition >>>

Prevent sparks from burning the dust cover and reduce loss.



CE Standard Protective Glass >>>

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



Thicken Sheet Metal >>>

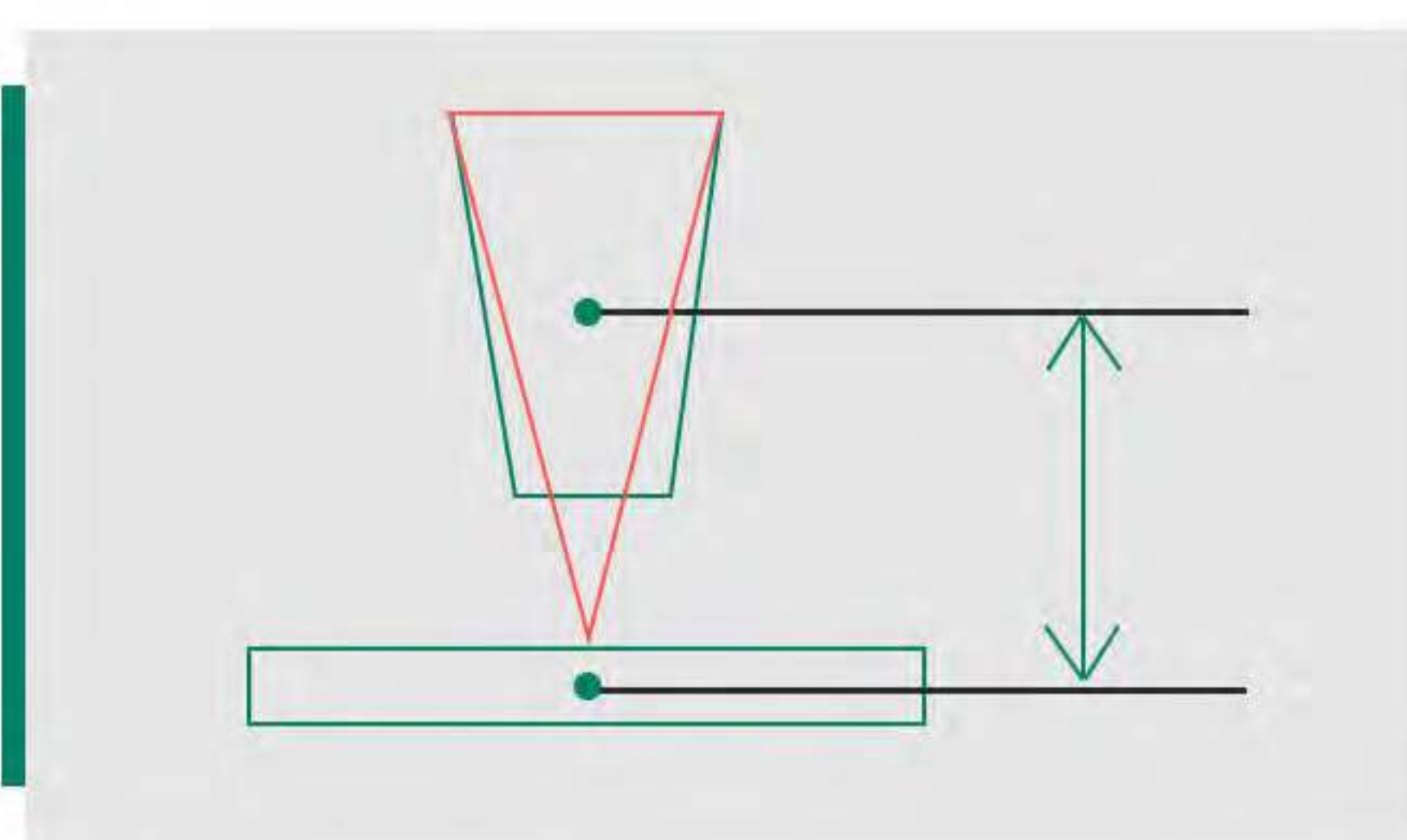
The thickness of the sheet metal is 1.5-3mm, the shell is not easy to deform, and the body is more tough.

Intelligent Control System



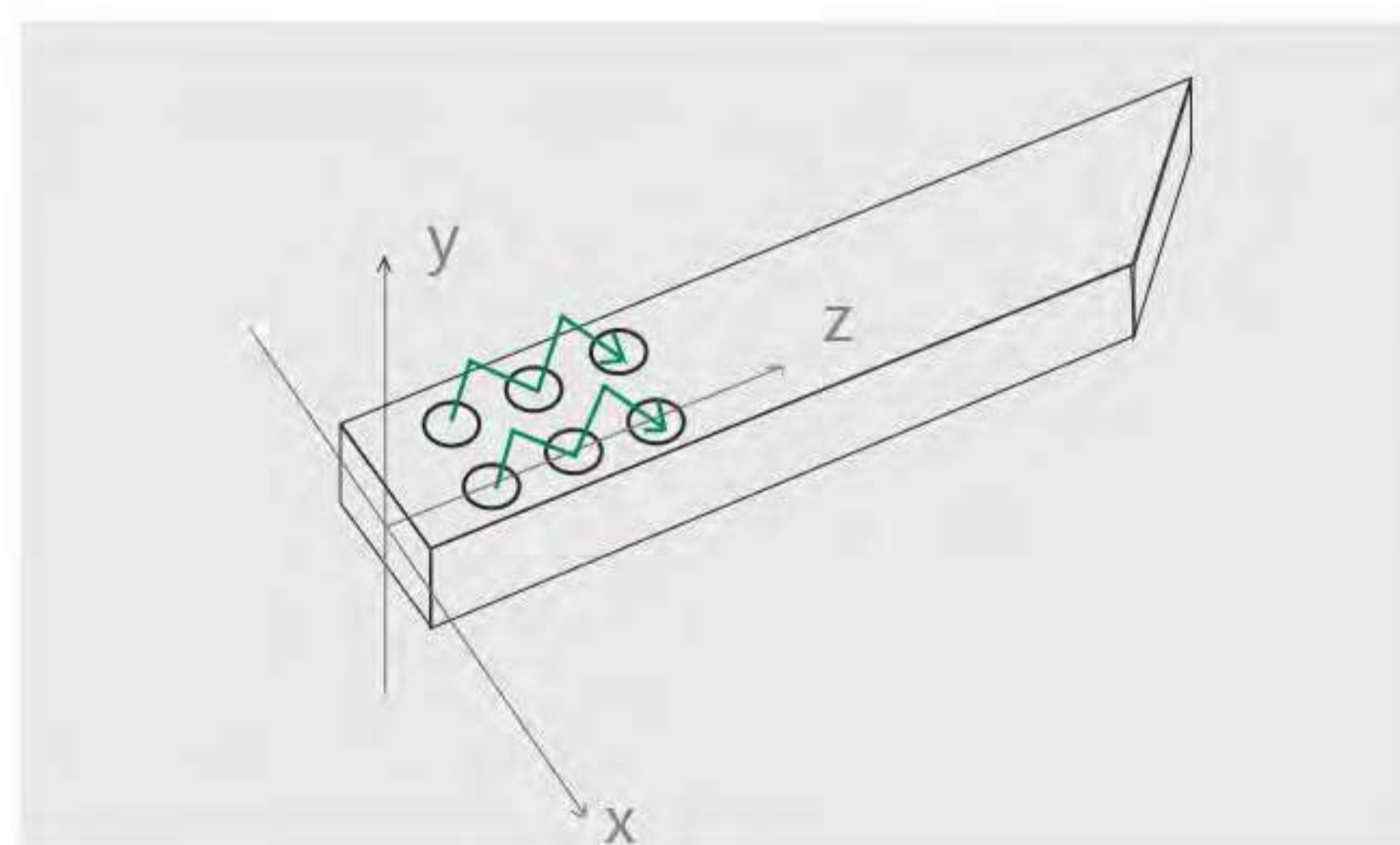
• Cypcut Plane Control System

CypCut plane cutting software is a set of software specially developed for the deep customization of the laser cutting industry.



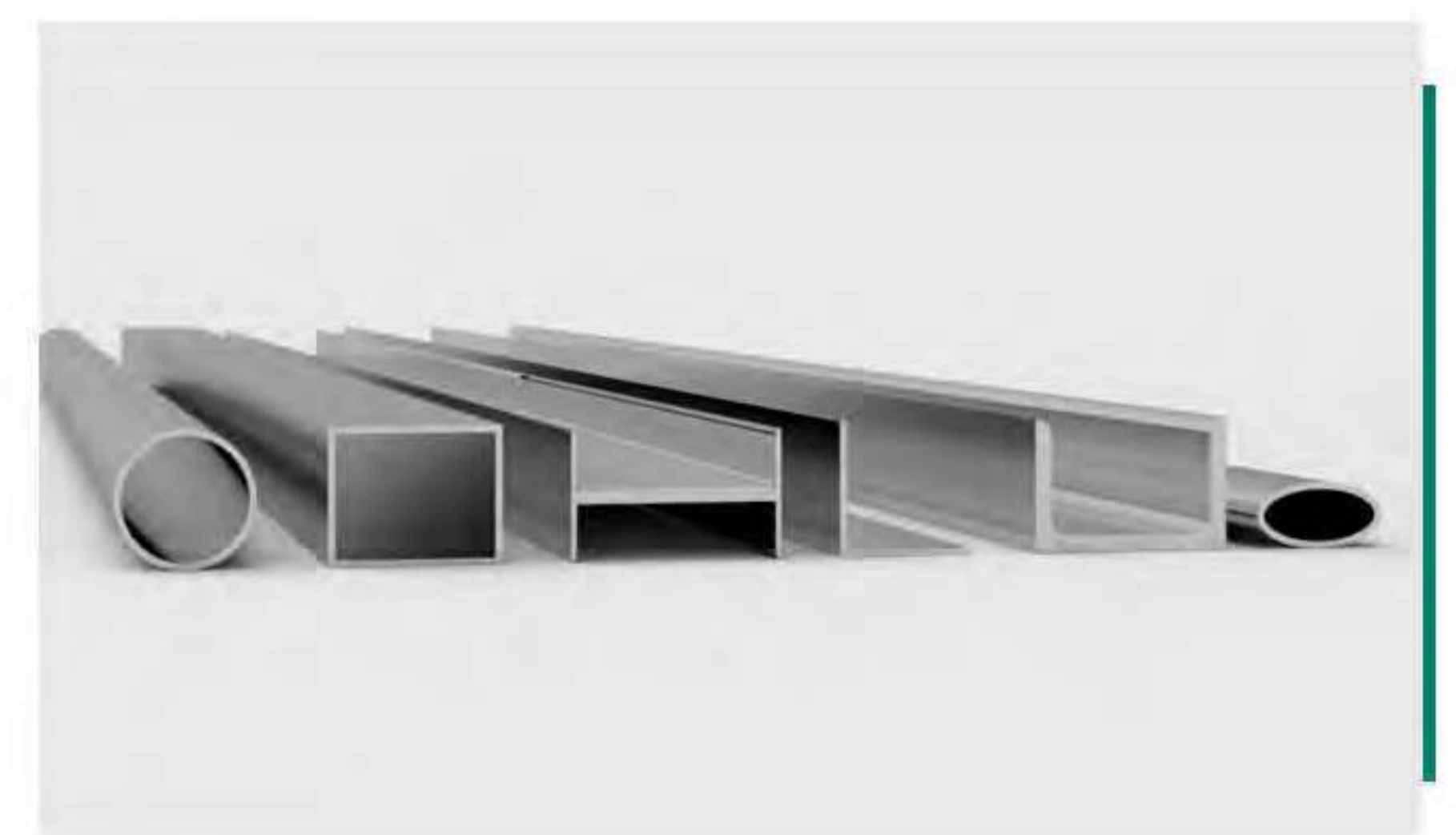
Automatically Find The Center >>>>

Collect the real-time information of the Z axis during processing, obtain the deviation value between the pipe center and the chuck, and compensate in real time to achieve high-precision cutting



Fast moving >>>>

According to the pipe section information and the position information of the pipe hole, a reasonable lifting height of the Z axis is ensured. During the idle movement, three axes move at the same time to achieve more efficient processing.



Special-shaped steel cutting >>>>

It not only supports the cutting of standard pipes such as round pipes and square pipes, but also supports the cutting of special-shaped steels, such as I-beams, channel steels, angle steels, elliptical pipes, waist-shaped pipes, and multi-deformed pipes.

Automatic Lubrication System

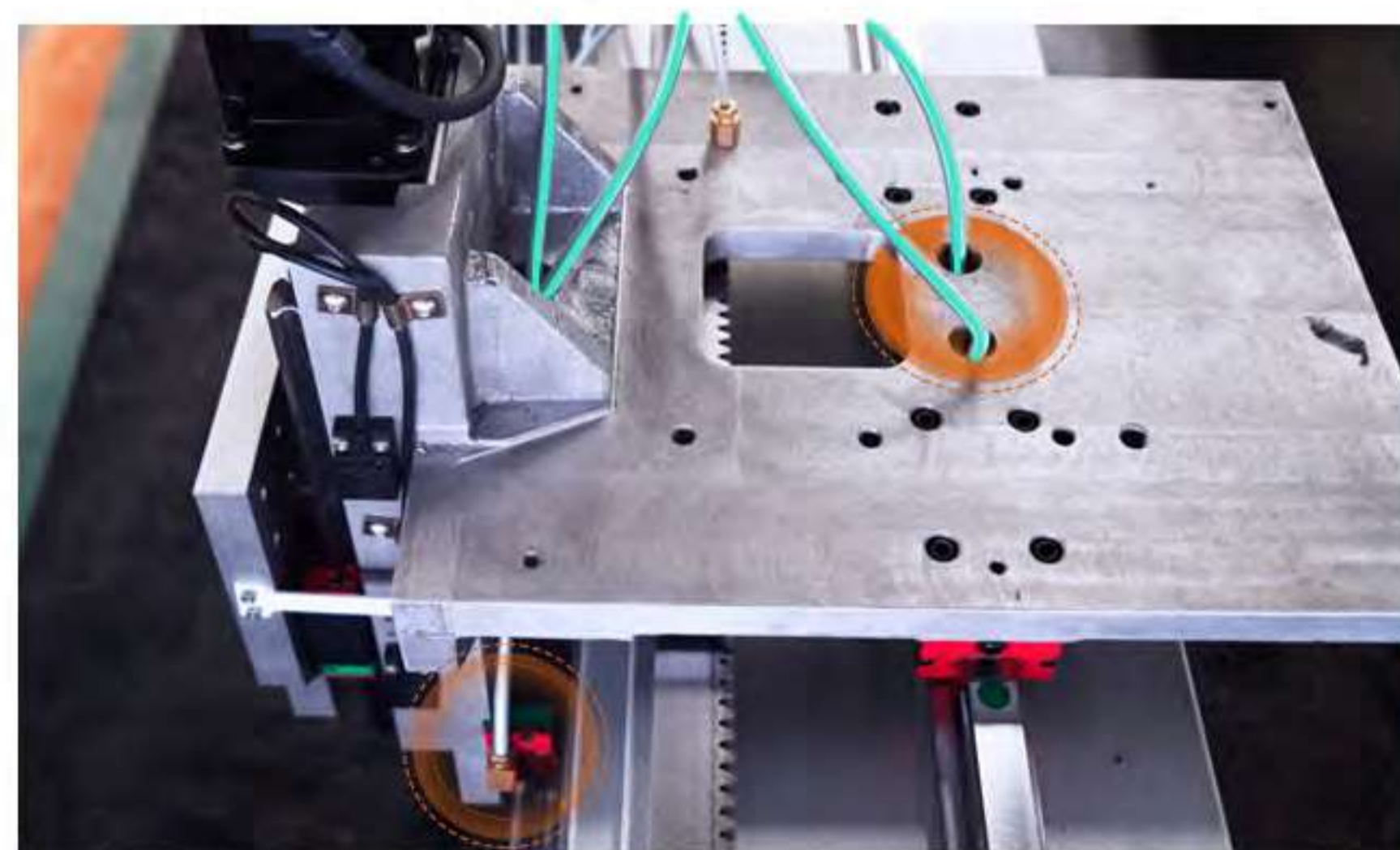


Whole body layout, automatic lubrication of guide rails and racks.



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 >>>

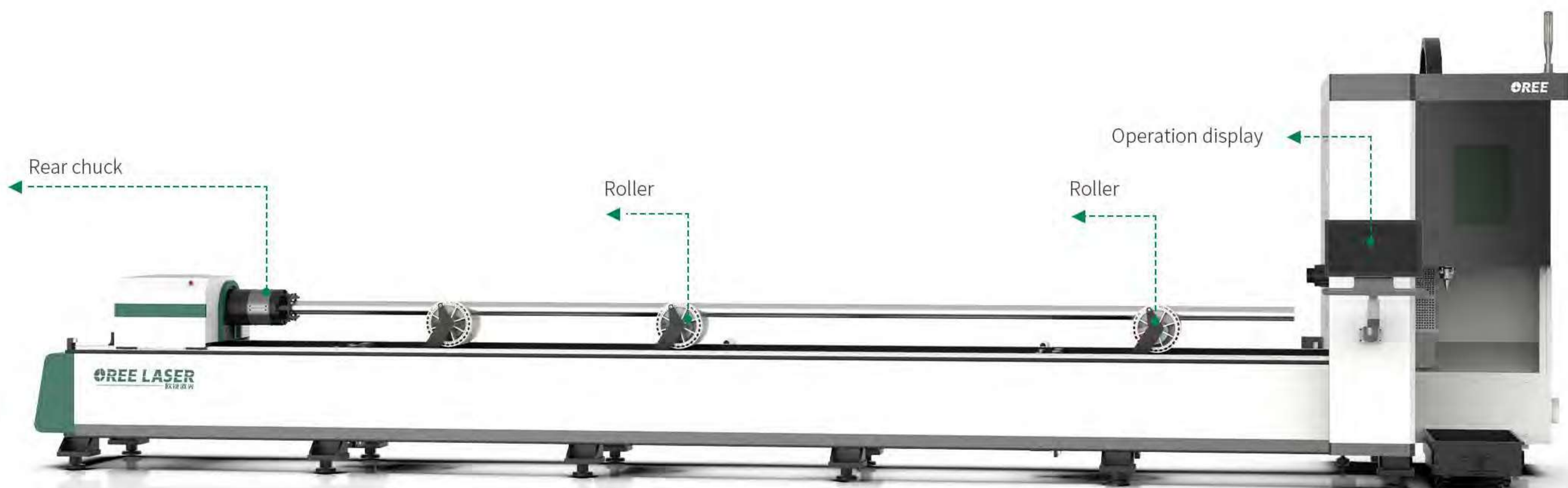
Automatic lubrication system for automatic lubrication of guide rails, sliders, screws, racks and other points, reducing equipment strain rate.



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.

Product display



It realizes the clever separation of the feeding area, the unloading area and the pipe cutting area, reducing the mutual interference of different areas, and the production environment is safe and stable.



Surrounded design



The shape of the machine tool adopts the cutting area enveloping design, with a large suction fan to discharge the cutting smoke and dust, which can greatly optimize the production environment, block the glare beam and the splash of residue sparks during cutting, and ensure the personal safety of the operator



Mosaic display



The height is reasonable, the operation is comfortable, and the ergonomics is improved.



Thicken Sheet Metal



The thickness of the sheet metal is 1.5-3mm, the shell is not easy to deform, and the body is more tough.

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.

QC Lifeline, Full Control



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



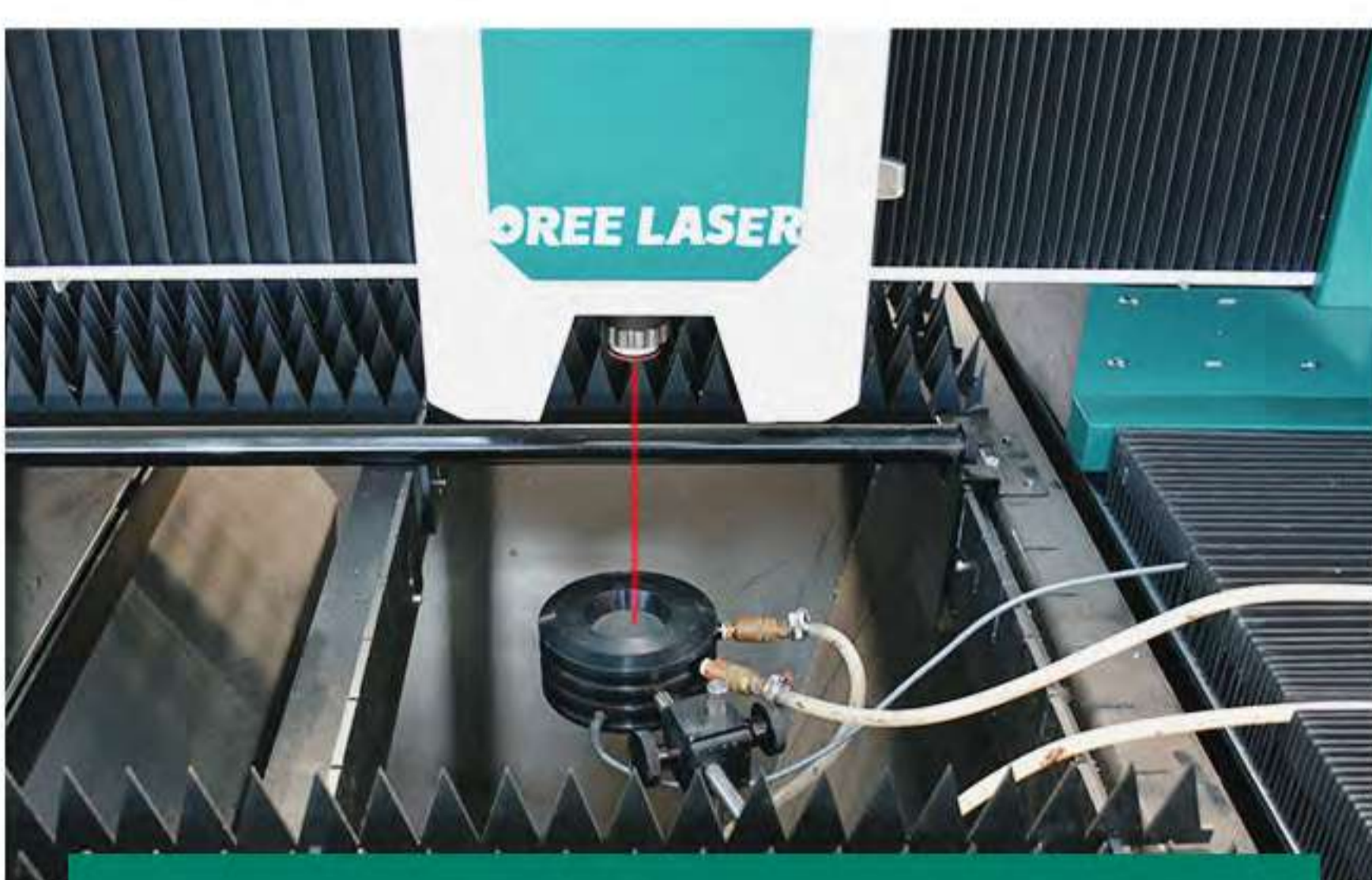
Positioning Accuracy Inspection

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 equipment



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.

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