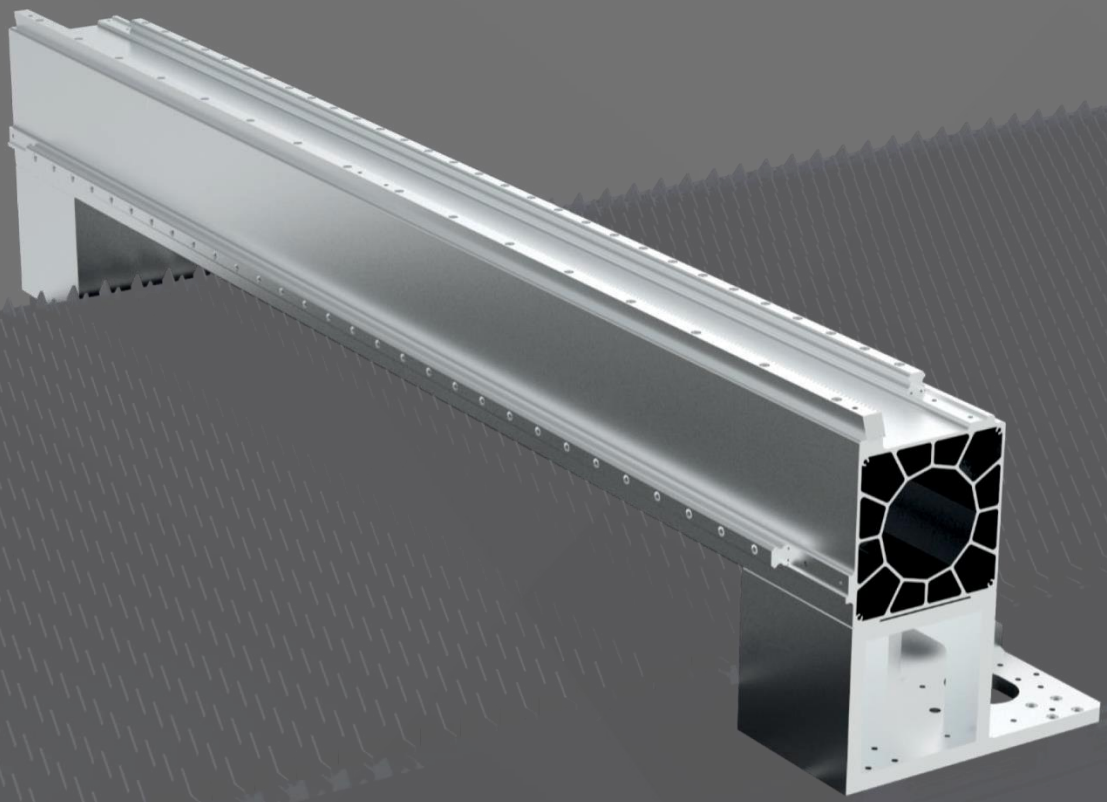
OMNITEC
LÁSER

SMART SERIES

Laser Cutting Machines

MODEL	SMART 3015E	SMART 4015E	SMART 6015E
Cutting Area (L×W)	3048mm x 1524mm	4069mm x 1524mm	6096mm x 1524mm
Laser Source	Fiber & 1500W – 2000W – 3000W – 4000W – 6000W		
CNC System	XC3000S		
Max Moving Speed	100m/min		
Position Accuracy (X and Y axis)	0.05mm		
Reposition Accuracy (X and Y axis)	0.03mm		
Power Supply Requirement	380V 50/60Hz		



Beam made of Aviation aluminum profile

The beam is formed by an industrial frame profile obtained by heating an aluminum rod and extruding through a die.

High Speed

The light crossbeam can ensure the machine have high moving speed and improve the processing efficiency.

High strength machine bed

The machine bed is processed with a stress relief annealing method at 600°C, which ensures a strong structure rigidity

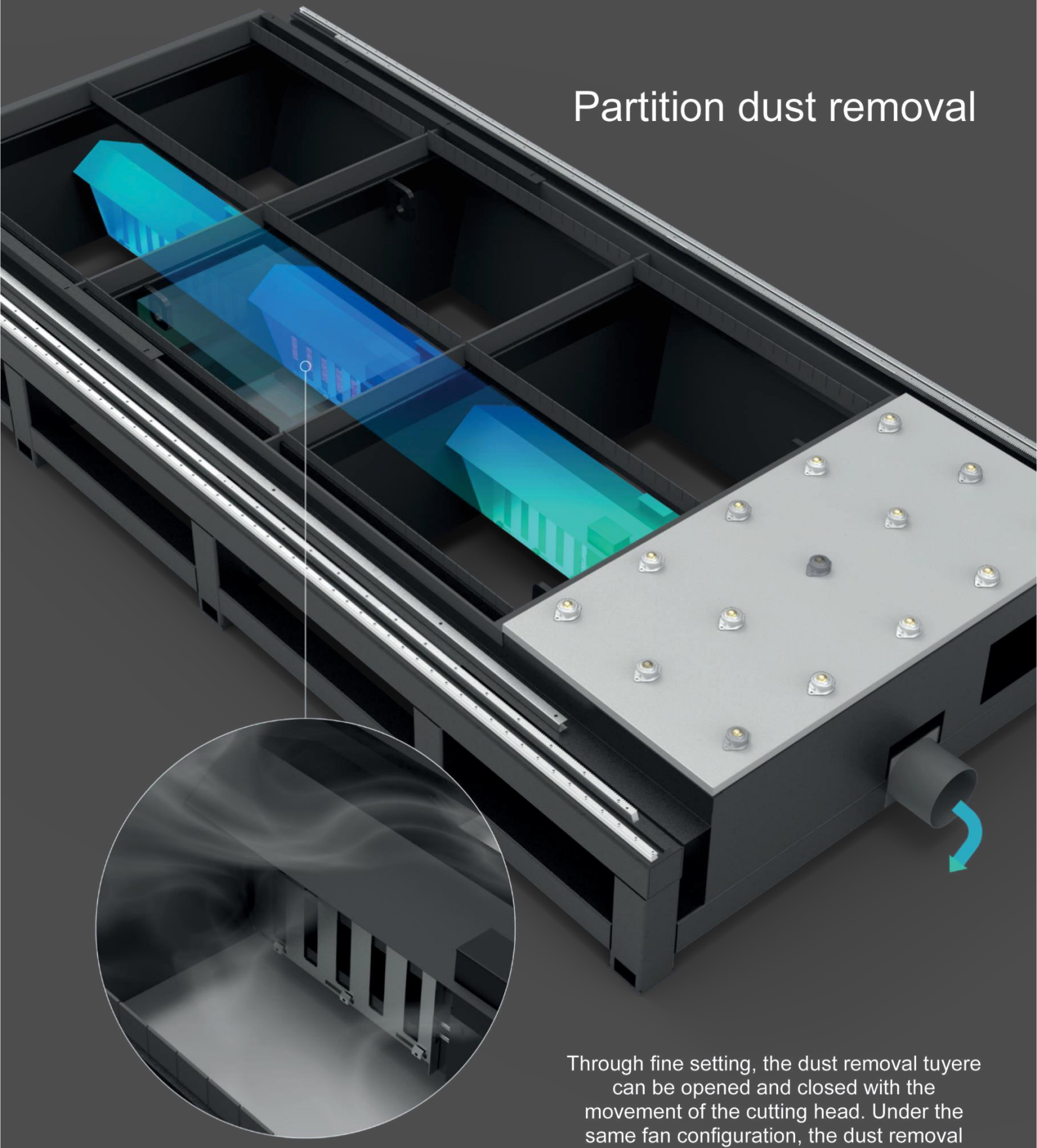
Small Deformation

Low Vibration

High Precision

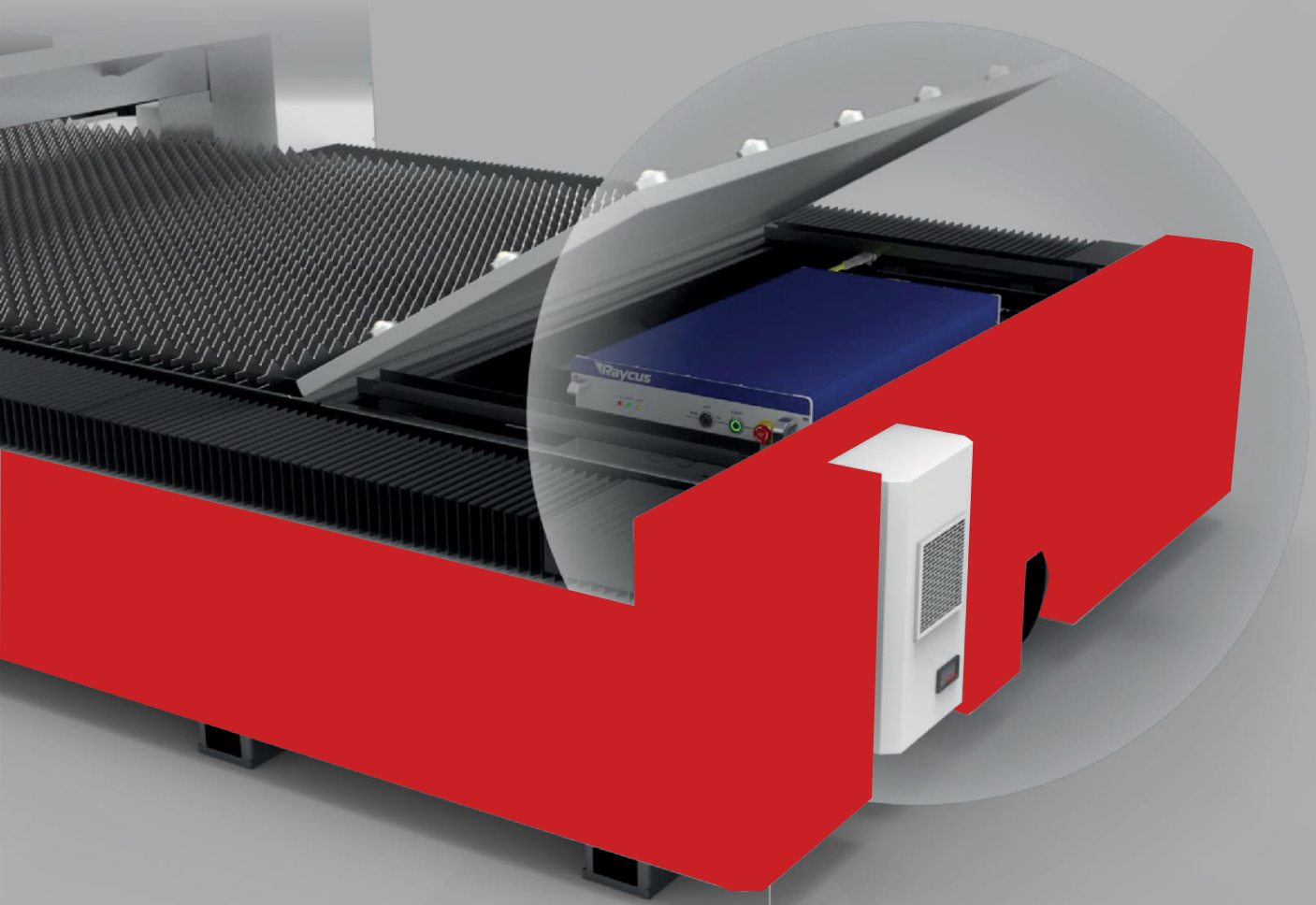
OMNITEC LÁSER

Partition dust removal



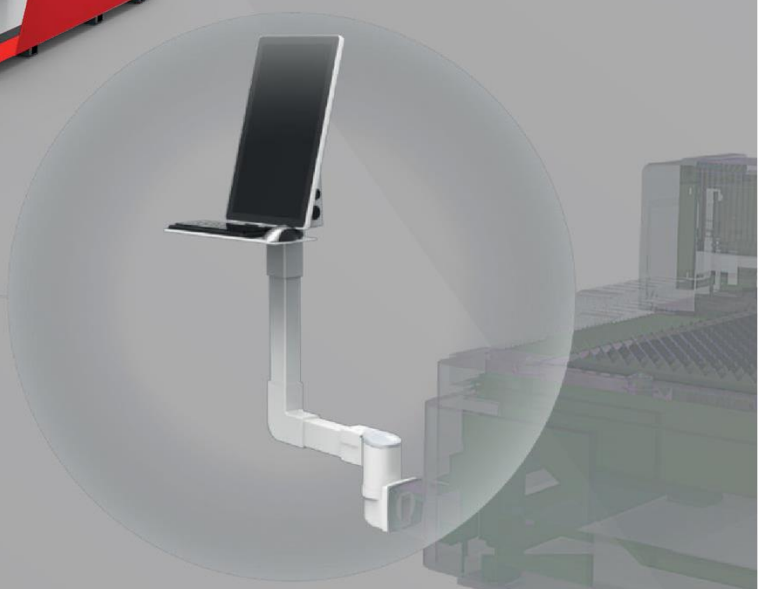
Through fine setting, the dust removal tuyere can be opened and closed with the movement of the cutting head. Under the same fan configuration, the dust removal effect is effectively enhanced

Integrated electrical cabinet



Integrated design

Cantilever operating platform



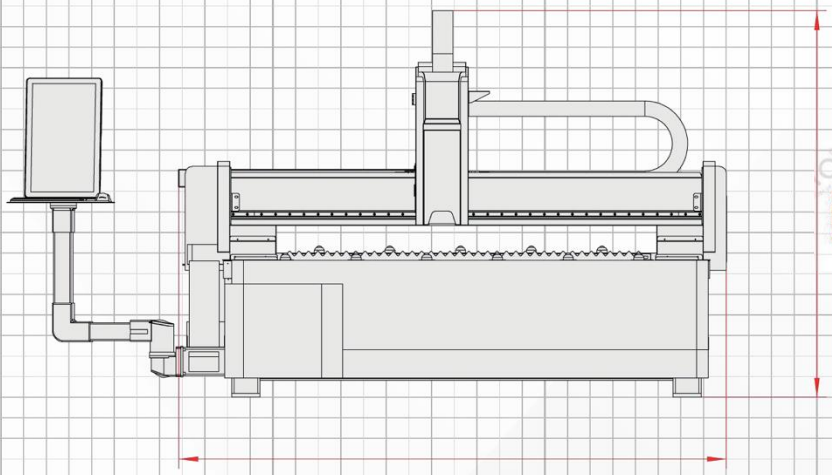
TECHNICAL SPECIFICATIONS

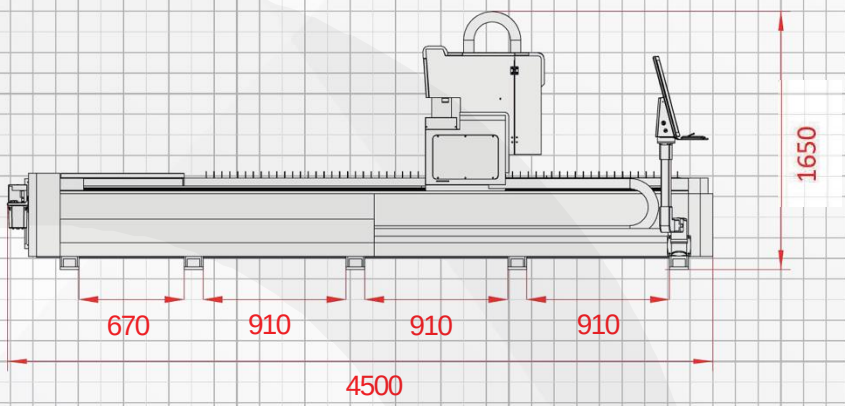
Machine Model	SMART 3015E
Cutting Area (L×W)	3048mm×1524mm
Laser Source	Raycus Fiber 1500W
Transmission system	Dual sides driven gantry structure
CNC System	XC3000S
Servo Motor	ONIVANCE
Laser Cutting Head	RAYTOOLS
Display	21.5” Industry LCD
Acceleration	1.0G
Position Accuracy (X and Y axis)	0.05mm
Reposition Accuracy (X and Y axis)	0.03mm
Lubrication system	Full-automatic
Power Supply Requirement	380V 50Hz
Max loading (KG)	1000 KG
Machine weight	2500 Kg
Appearance size	4900mm×2350mm×1650mm
Working environment	Temp:5- 35 ℃,humidity:≤70%

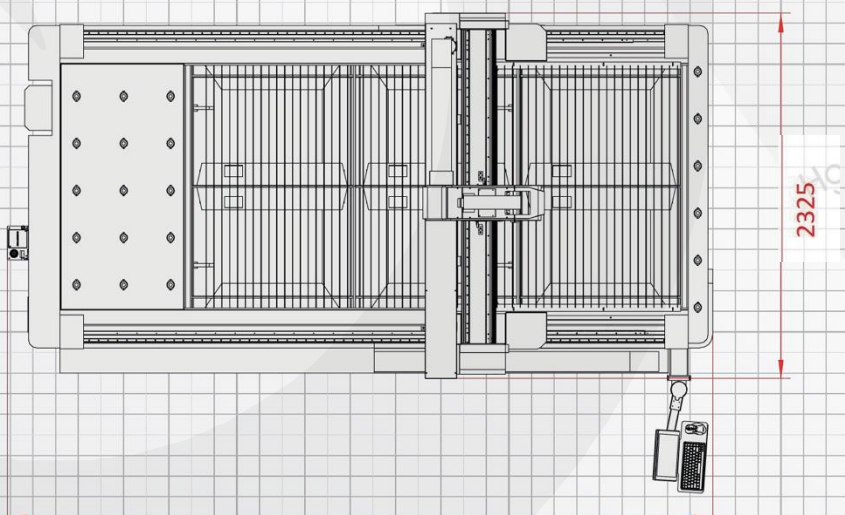
MACHINE CONFIGURATION

NO.	Model	Name	Quantity	Remarks
1	SMART 3015E	Fiber laser cutting machine (3048mm*1524mm)	1 set	OMNITEC
2	1500W	Laser generator	1 set	Raycus
3	Water chiller	Special water chiller for fiber laser generator	1 set	S&A
4	Laser head	High accuracy professional fiber laser head	1 set	Raytools BM 111
5	Control system	XC3000S	1 set	XC3000S
6	Software	Raytools	1 set	Raytools
7	Driving system	High speed servo motor	4 set	INOVANCE
8	Reducer	imported	4 set	Motovario Franch
9	Electric components	imported	1 set	Schneider
10	Guide rail	imported	1 set	PEK
11	Rack	imported	1 set	T-win Taiwan

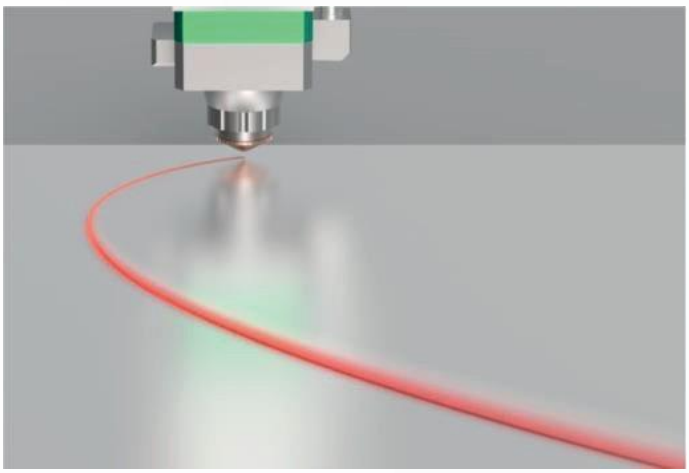
MACHINE OCCUPATION MAP





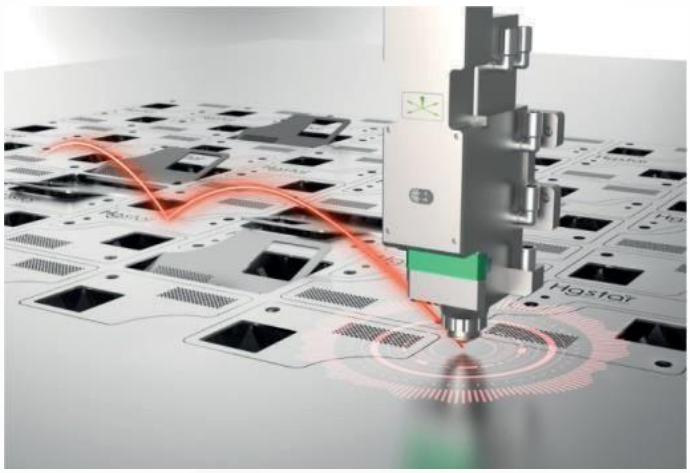


EXCELLENT FUNCTION



Vibration Suppression

One key quick setting can easily solve the vibration problem of thick plate processing

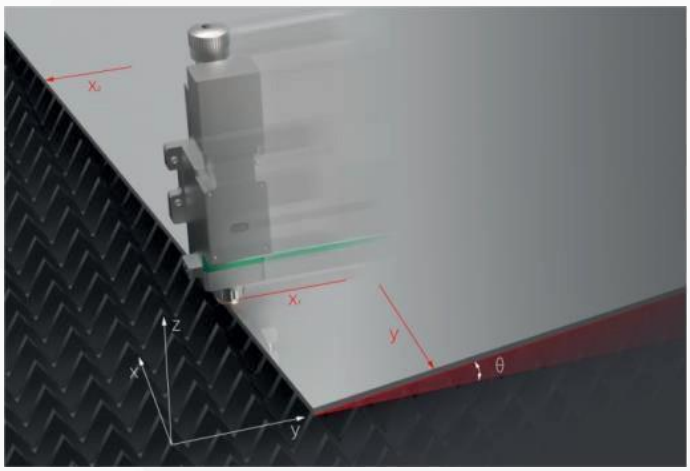


Intelligent obstacle avoidance

Intelligently avoid random raised areas in the cutting process and reduce the risk of head collision

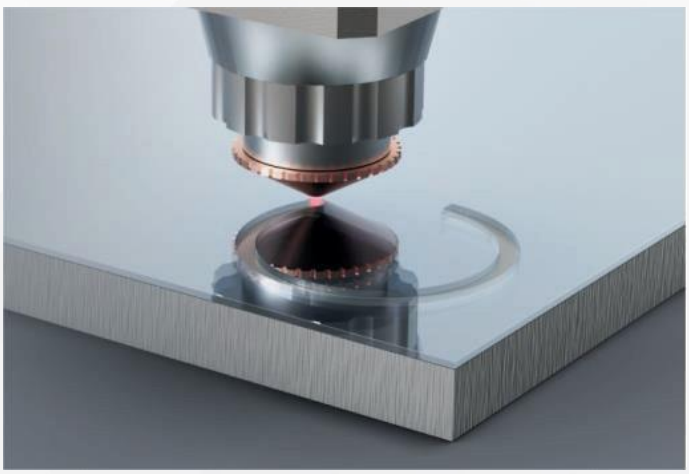
Exclusive tuning database

All you need to do is a simple touch, and the complicated operations are handed over to us



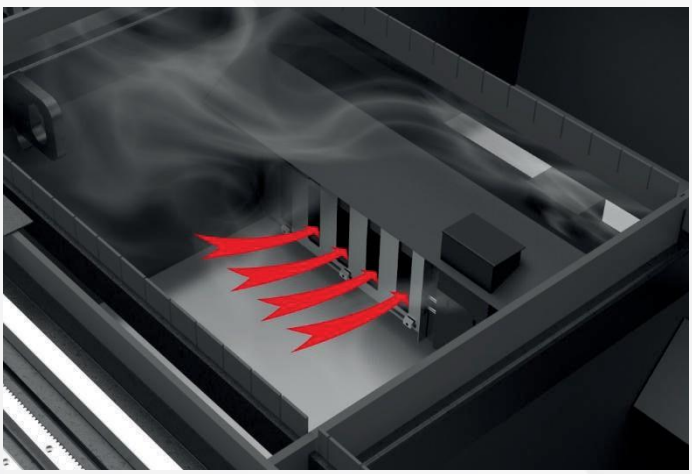
Three point edge finding

The inclination angle and origin of sheet metal are sensed through automatic edge-finding to avoid waste and save time



Membrane removal process

The sequence of film removal and pre perforation can be set flexibly and make workpiece cutting more perfect



Partition dust removal

Through fine setting, the dust removal tuyere can be opened and closed with the movement of the cutting head. Under the same fan configuration, the dust removal effect is effectively enhanced

CUTTING PARAMETER

CUTTING SAMPLES

Applicable to cutting carbon steel, stainless steel, aluminum, brass , alloy metals, etc.

SERVICE PROCESS

Pre-sales Service

Provide application consulting

Reply to customer's inquiry

Provide professional advice

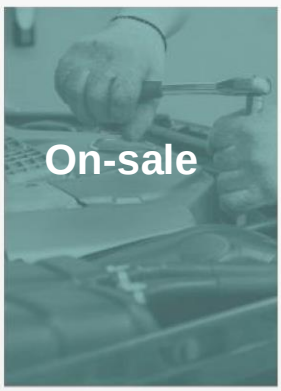
Interested in cooperation

intensive study

Propose the optimal scheme

Provide inspection reception

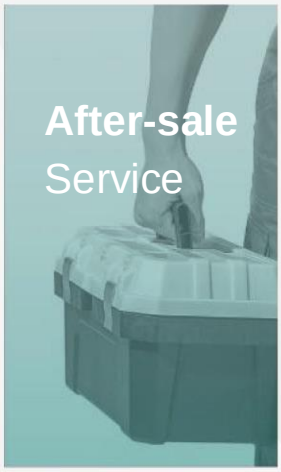
On-sale



Technical training for users

Installation and commissioning

After-sale Service

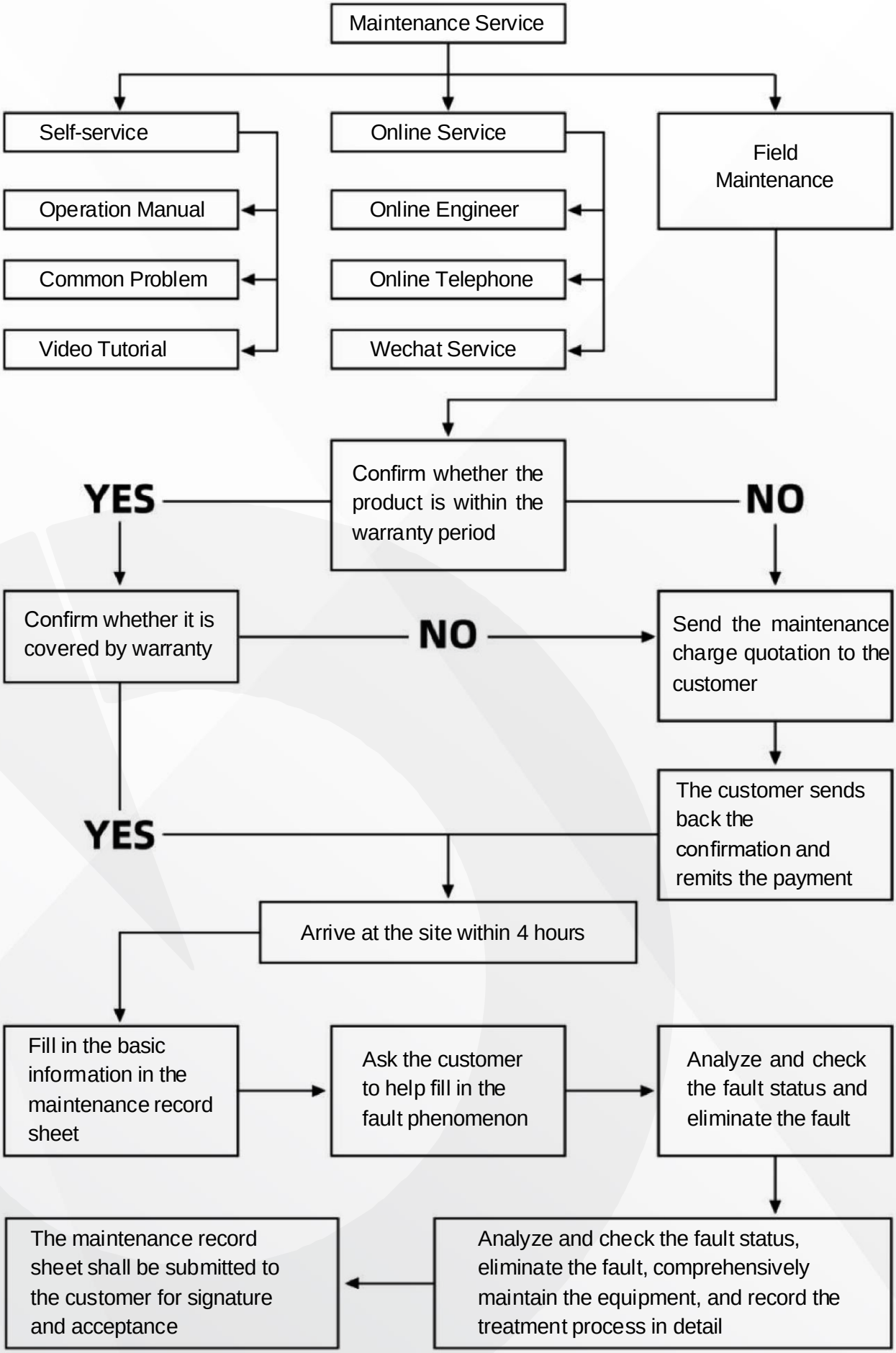


Carry out regular maintenance of products

In case of equipment failure, maintenance service shall be provided in the shortest time

Ensure to provide all kinds of spare parts and maintenance materials in time

SERVICE MAINTENANCE PROCESS

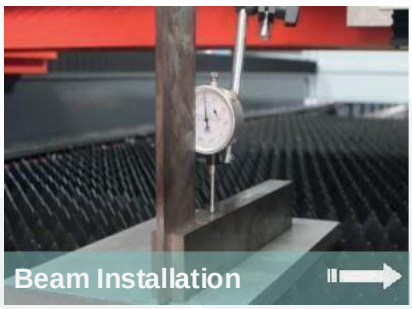


SERVICE QUALITY INSPECTION

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

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

The relative position of the guide rail and the guide rail is locked and clamped by the measuring rod. Statistics and analysis of measurement data to ensure that they are parallel



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

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

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

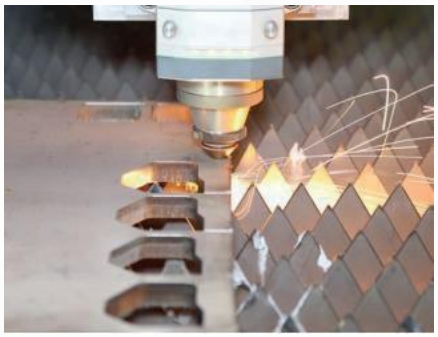
The laser interferometer tests the Z-axis positioning accuracy to ensure the accuracy of the whole machine

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

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

SERVICE DELIVERY PROCESS

1
Machine Inspection



2
Component Fixing

3
Protective Film Wrapping

4
Wooden Boxseal

5
Edge Reinforcement

6
Separate Packaging

7
Lifting Rail

8
Container Loading

9
Transportation

OMNITEC
LÁSER

Contáctanos

info@grupohitec.com

ventas@grupohitec.com

grupohitec.com