



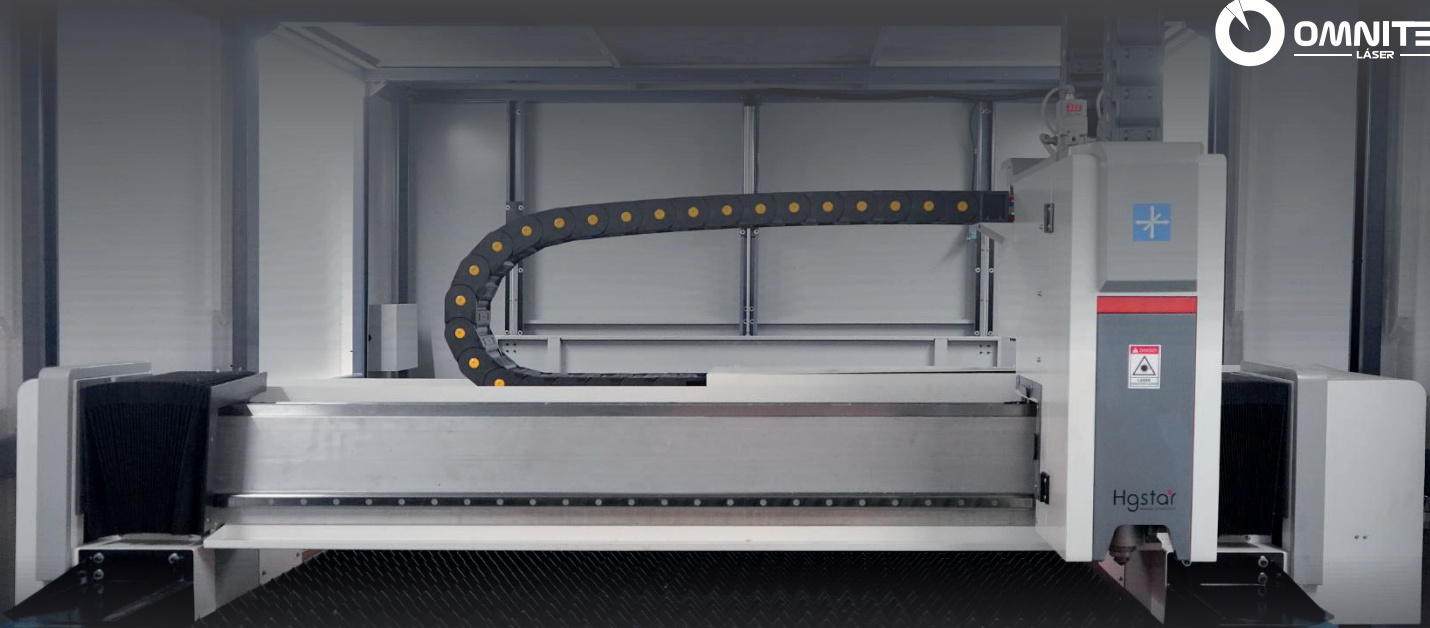
OMNITEC
LÁSER



SMART SERIES
Laser Cutting System



MODEL	SMART 3015Pro	SMART 4015 Pro	SMART 4020 Pro	SMART 6015 Pro
Cutting Area (L×W)	3048mm x 1524mm	4069mm x 1524mm	6096mm x 1524mm	8128mm x 1524mm
Laser Source	Fiber & 1000W – 30000W			
CNC System	FSCUT			
Max Moving Speed	120m/min, Acceleration is 1.2G			
Position Accuracy (X and Y axis)	0.05mm			
Reposition Accuracy (X and Y axis)	0.03mm			
Power Supply Requirement	380V 50/60Hz			

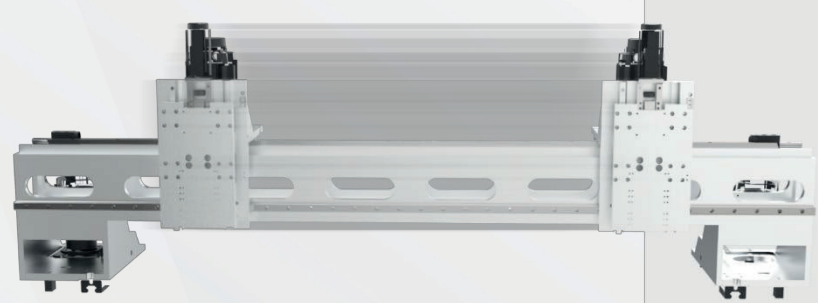


NEW GENERATION



Aviation Aluminum Alloy Beam

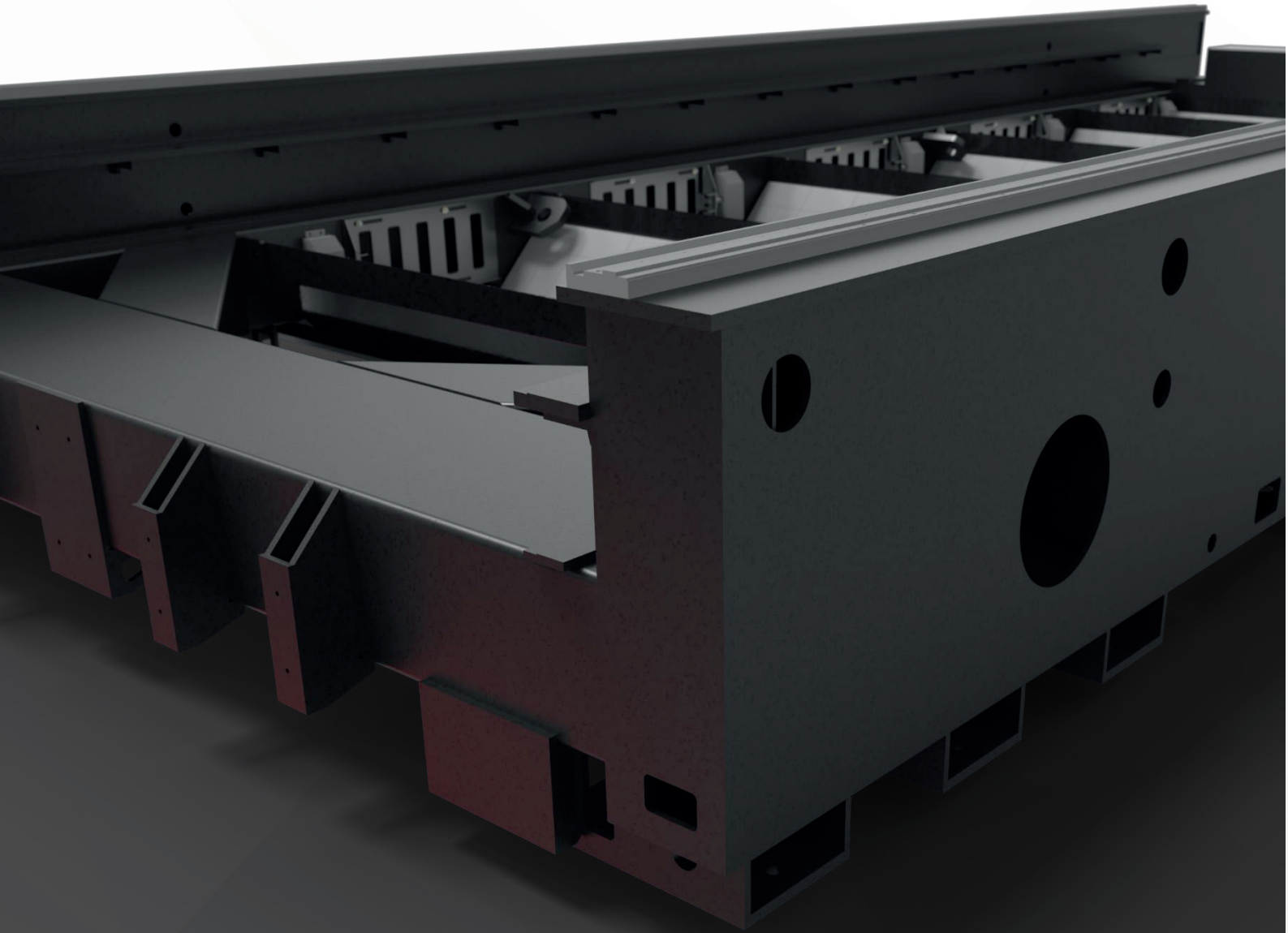
It is manufactured with aerospace standards and fomed by 4300 tons press extrusion molding. After aging treatment, its strength can reach 6061 T6 which is the strongest strength of all beams. Aviation aluminum has many advantages, such as good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.



High Speed

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

MACHINE BED



Super heavy welded bed

It is welded by heavy steel plate, the current mainstream bed structure, high stability. The plate welding bed is subjected to stress relief annealing treatment on the basis of heavier, so that the bed is not easy to deform.

OPTIONAL



MAX



Raycus

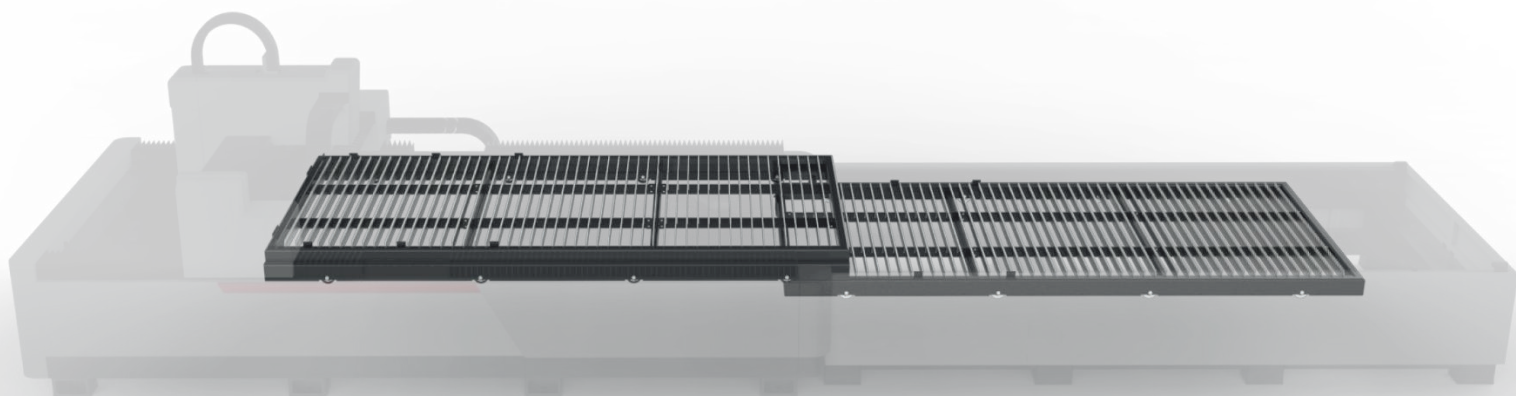


reci

Higher photoelectric conversion efficiency

Second generation optical fiber transmission system
Better and more stable beam quality

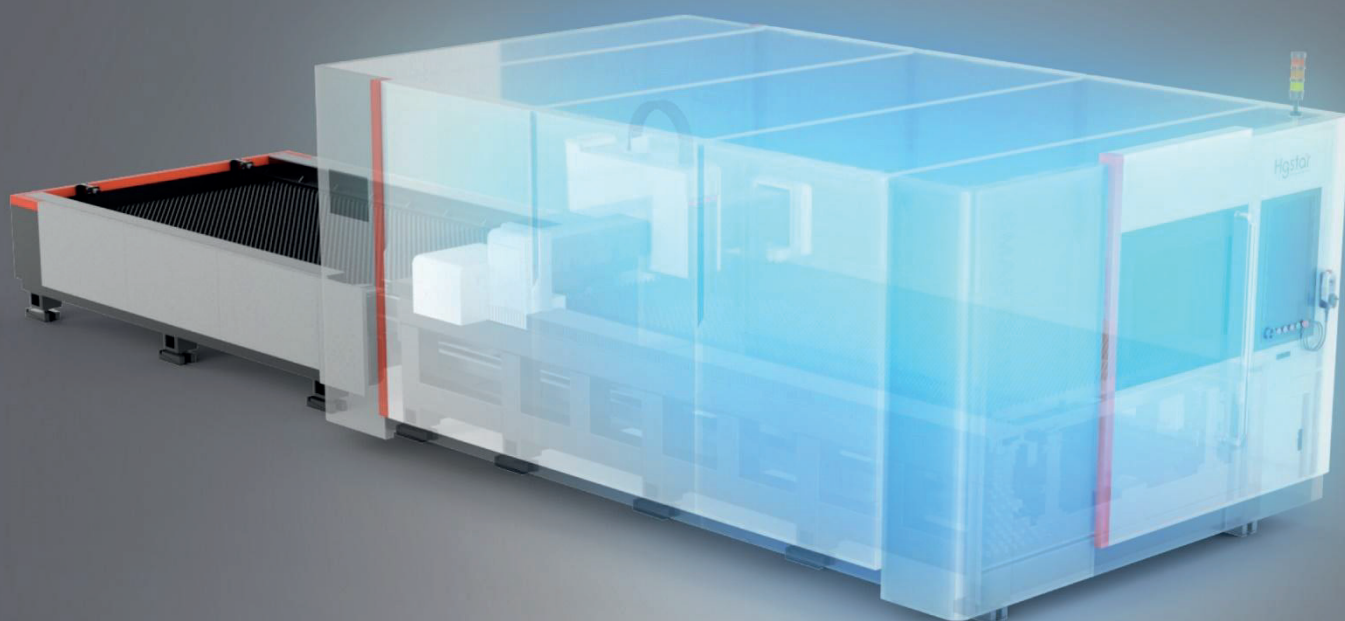
6000W
3000W
2000W
1500W
1000W



High-speed parallel exchange platform design

Simultaneous exchange of two worktables, stable and reliable transmission mode, shorter exchange time, and improved frequency converter.

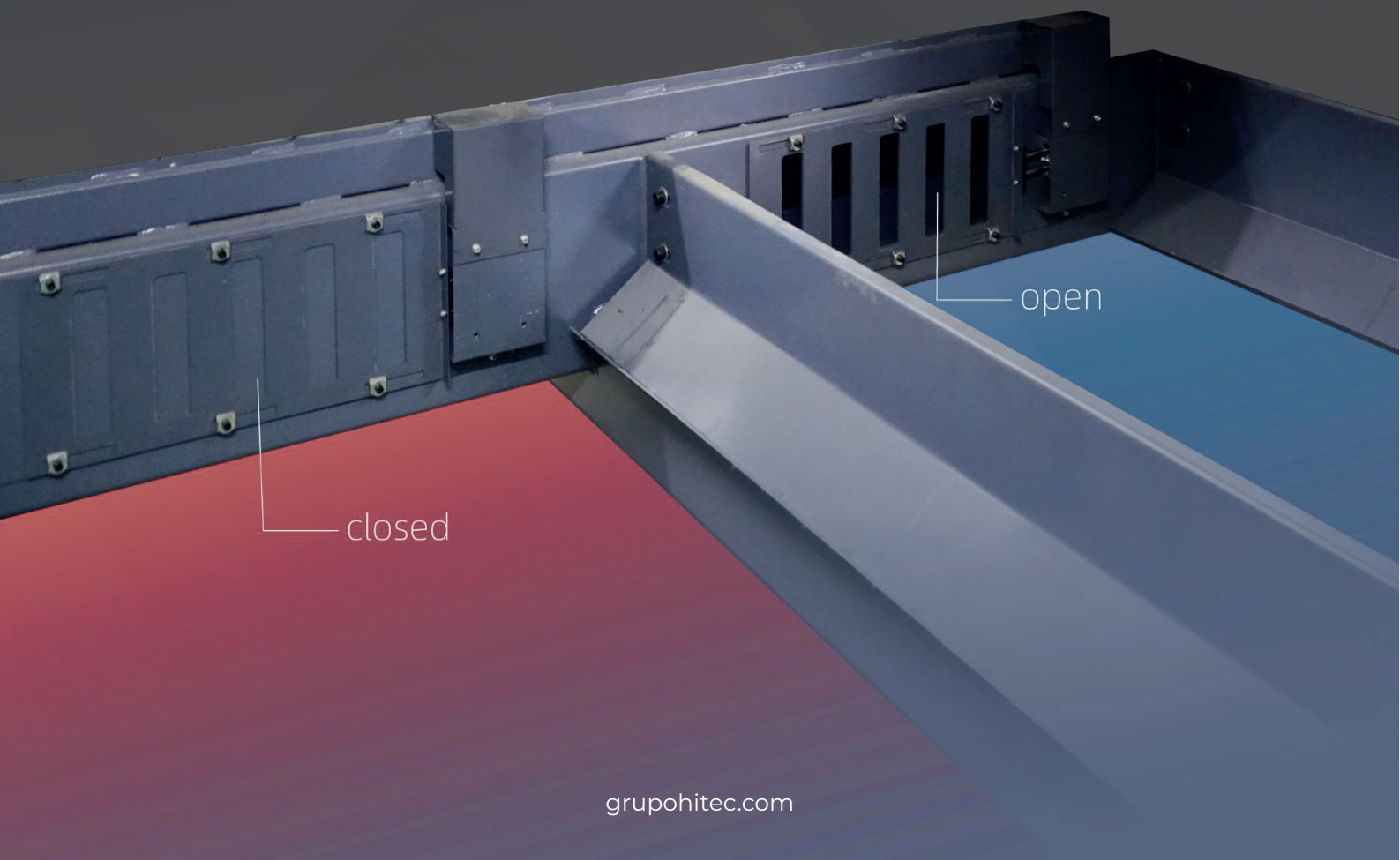
Security and non-pollution



With a completely enclosed design;
The observation window is made of laser-protective glass that meets European CE standards.

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





Automatic lubrication system

Automatic lubrication system provides timing and ration lubricating oil for equipment to ensure its normal and high speed operation, and owns functions of abnormal alarm and liquid level alarm. The system greatly enhances cutting accuracy and effectively extends service life of transmission mechanism.



Independent control cabinet (equipped with air conditioning)

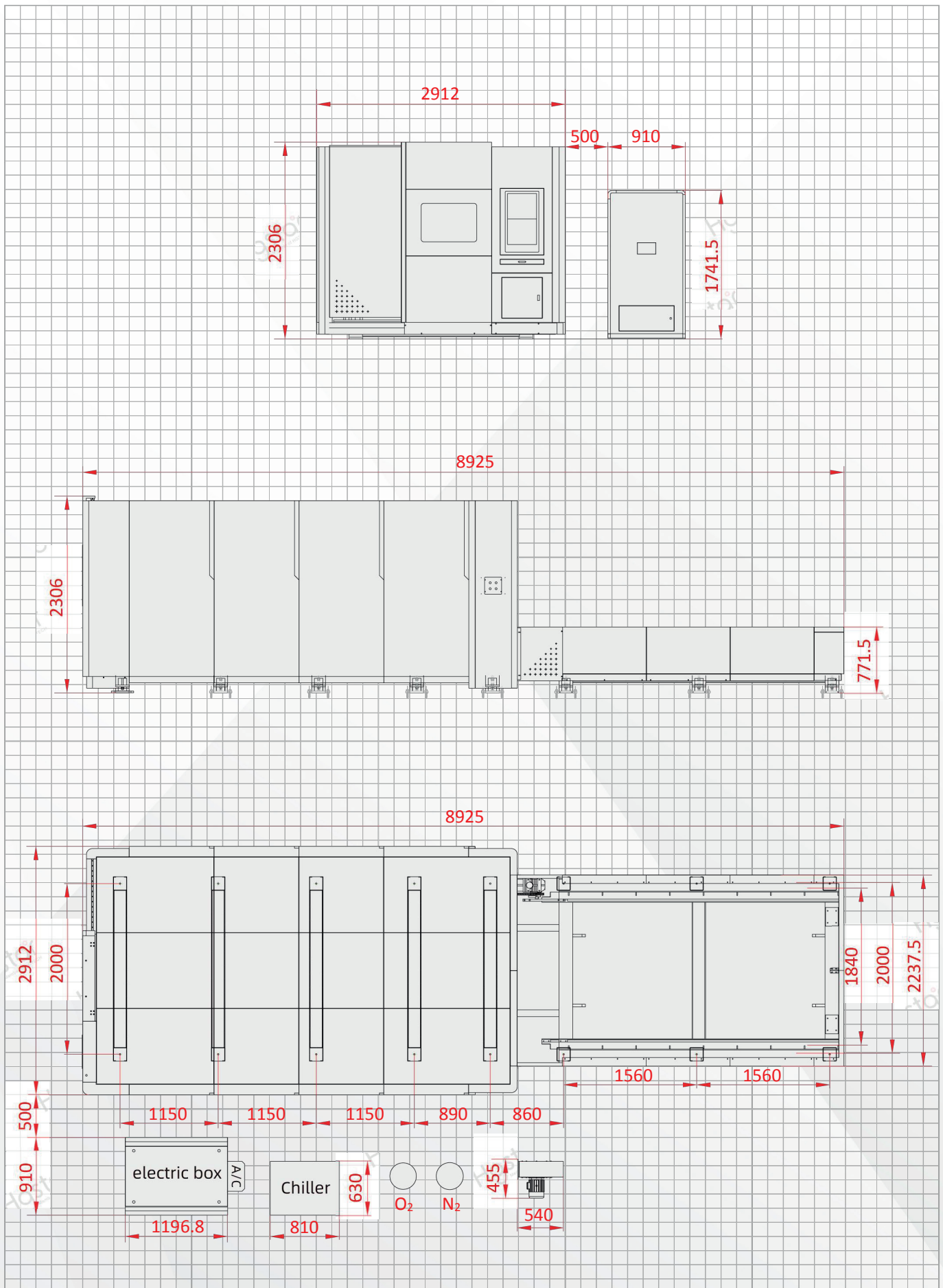
TECHNICAL SPECIFICATIONS

Machine Model	SMART3015Pro-12000W
Cutting Area (L×W)	3048mm×1524mm
Laser Source	Raycus Fiber & 12000W
Transmission system	Dual sides driven gantry structure
CNC System	FSCUT 6000E
Servo Motor	INOVANCE
Laser Cutting Head	Raytools BS12K
Display	27" Industry LCD
Max Moving Speed	120m/min, Acceleration is 1.2G
Position Accuracy (X and Y axis)	0.05mm
Reposition Accuracy (X and Y axis)	0.03mm
Lubrication system	Full-automatic
Power Supply Requirement	380V 50/60Hz
Max loading (KG)	1200 KG
Machine weight	≤7500 Kg
Appearance size	9000mm×3500mm×2306mm
Working environment	Temp:5- 35 ,humidity:≤70%

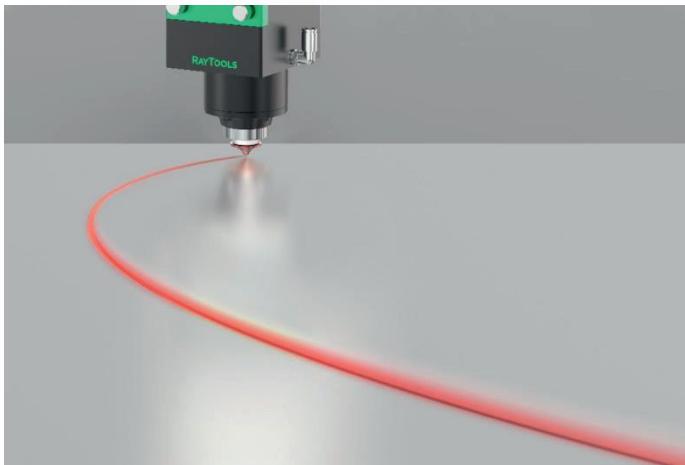
MACHINE CONFIGURATION

NO.	Model	Name	Quantity	Remarks
1	SMART3015Pro-12000W	Fiber laser cutting machine (3048mm*1524mm)	1 set	HGSTAR
2	12000W	Laser generator	1 set	RAYCUS
3	Water chiller	Special water chiller for fiber laser generator	1 set	HANLI 12000W
4	Laser head	High accuracy professional fiber laser head	1 set	Swiss Brand Raytools Auto Focus BS12K
5	Control system	FSCUT6000E	1 set	FSCUT6000E
6	Software	CYPCUT	1 set	CYPCUT
7	Driving system	High speed servo motor	4 set	INOVANCE
8	Reducer	imported	4 set	Motovario Franch
9	Electric components	imported	1 set	Chint/Schneider
10	Guide rail	imported	1 set	APEK
11	Rack	imported	1 set	T-win Taiwan

MACHINE OCCUPATION MAP

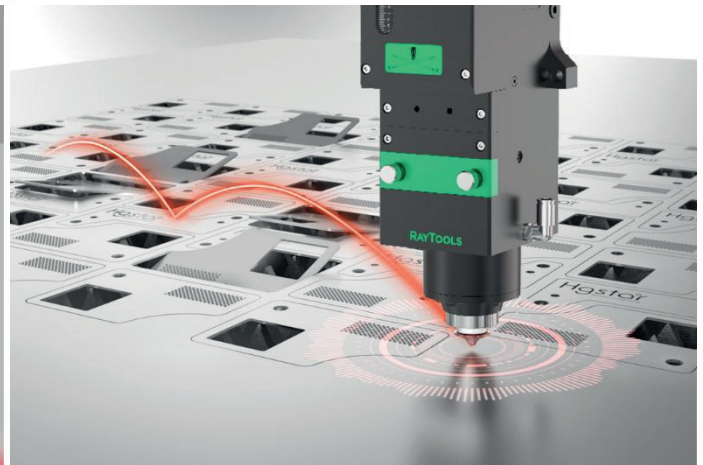


EXCELLENT FUNCTION



Vibration Suppression

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



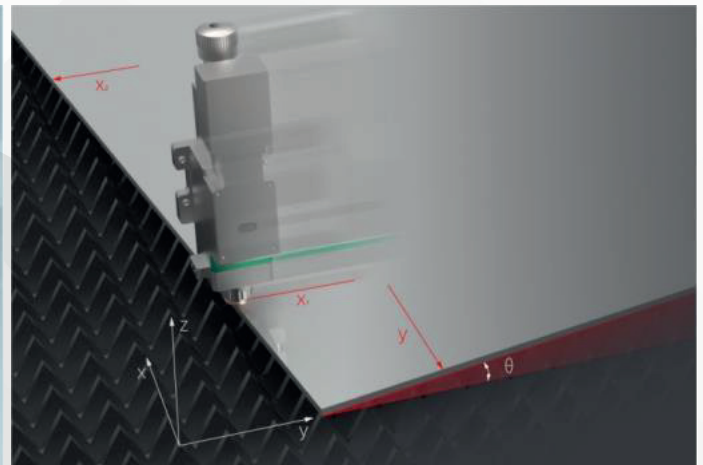
Intelligent obstacle avoidance

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



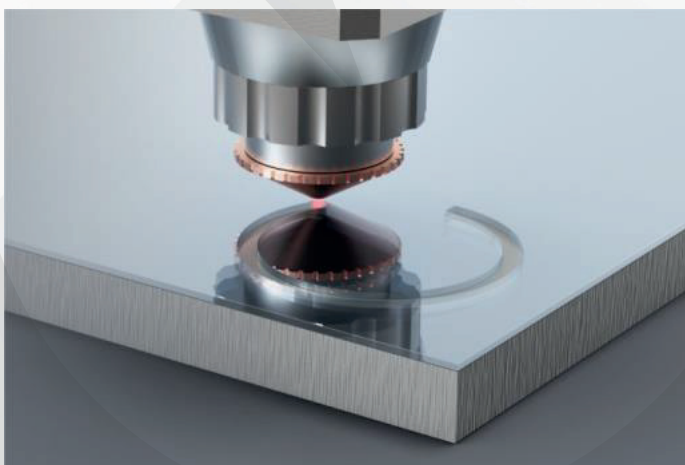
Exclusive tuning database

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



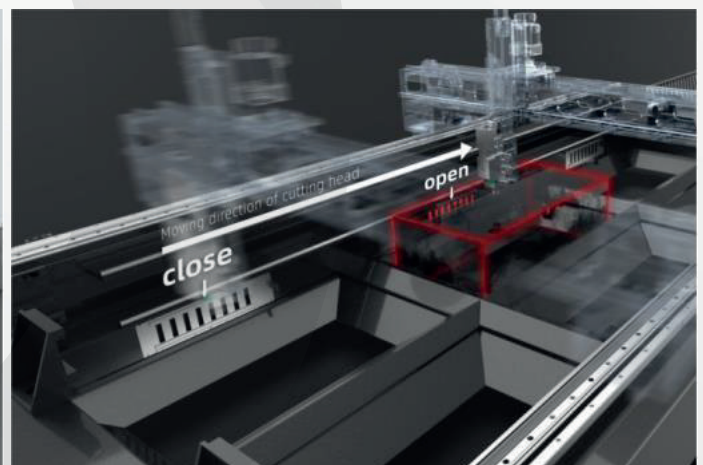
Three point edge finding

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

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CUTTING PARAMETER

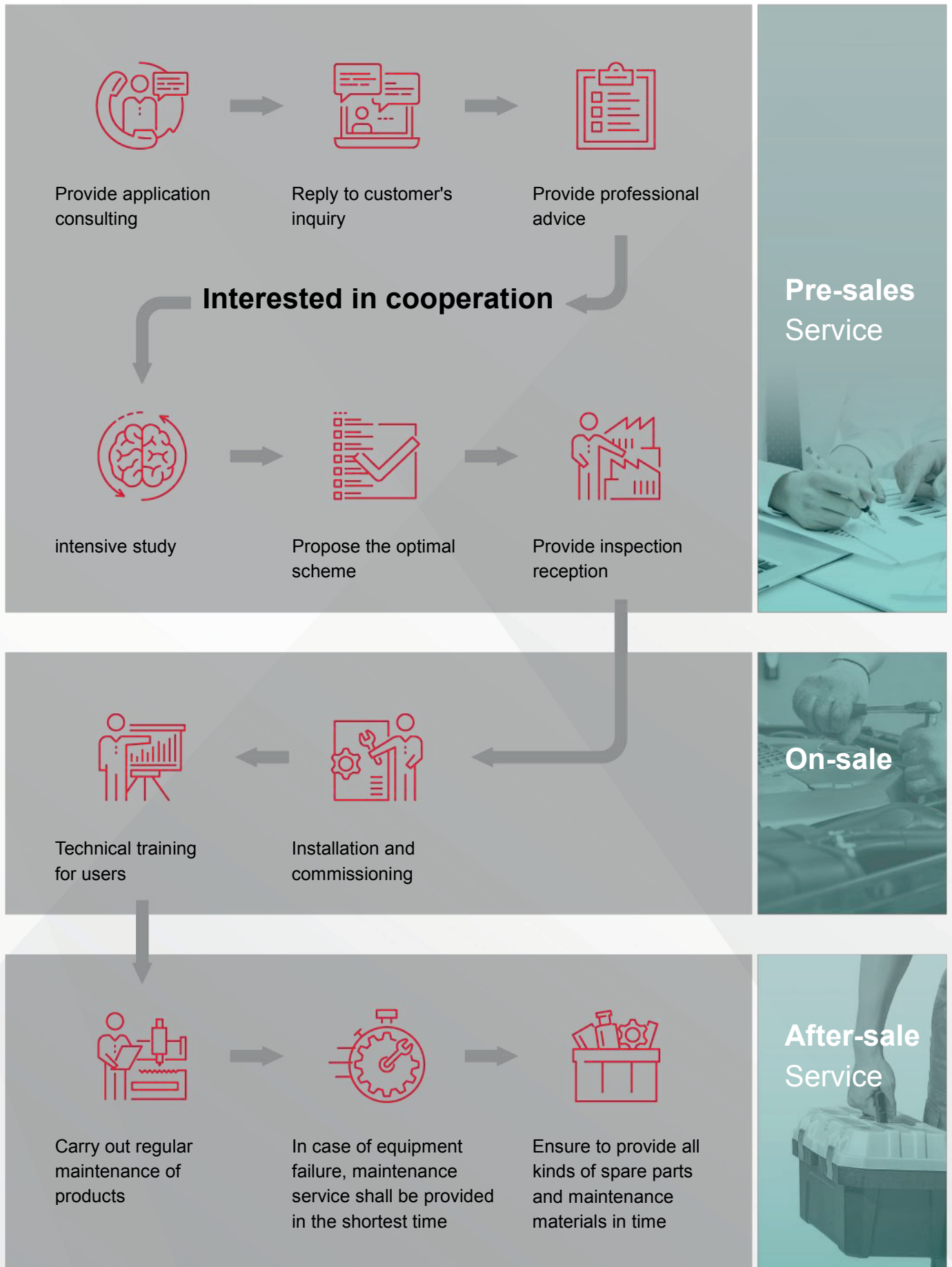


Cutting Samples

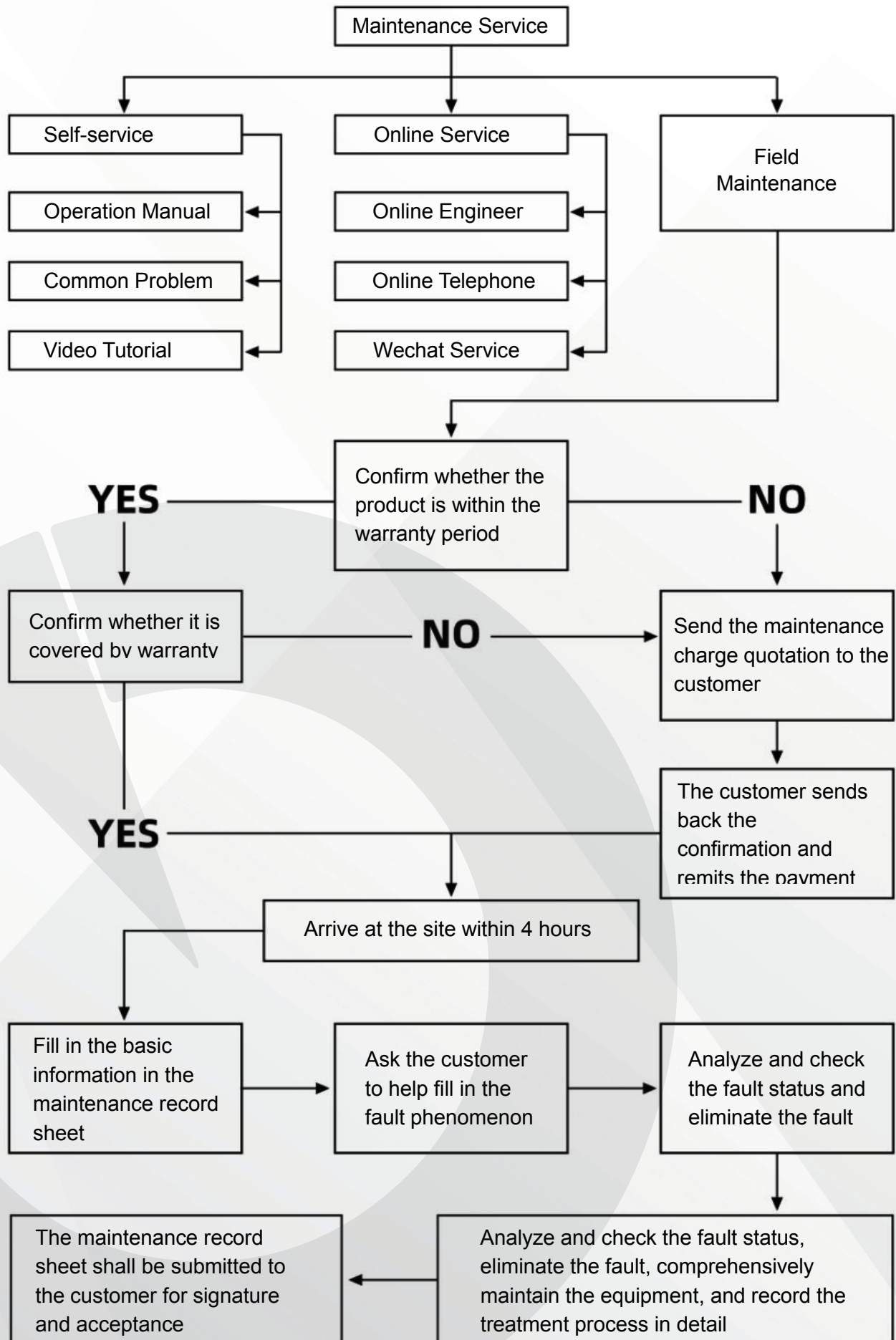
Applicable to cutting carbon steel, stainless steel, aluminum, brass, alloy metals, etc.



SERVICE PROCESS



SERVICE MAINTENANCE PROCESS



SERVICE QUALITY INSPECTION



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 guiderail to ensure that the detection value is within the standard range



Rack Installation ||>

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



Positioning Accuracy Inspection ||>

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



72h Machine Aging Test ||>

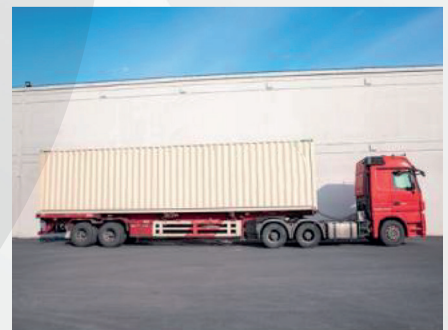
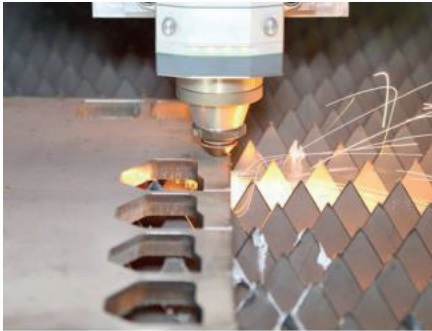
Simulate the high-intensity test of various harsh conditions in the actual use of the equipment, and at the same time, according to the requirements of use, rationalize the improvement to ensure the factory pass rate and improve the reliability of the equipment



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

SERVICE DELIVERY PROCESS





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LÁSER

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