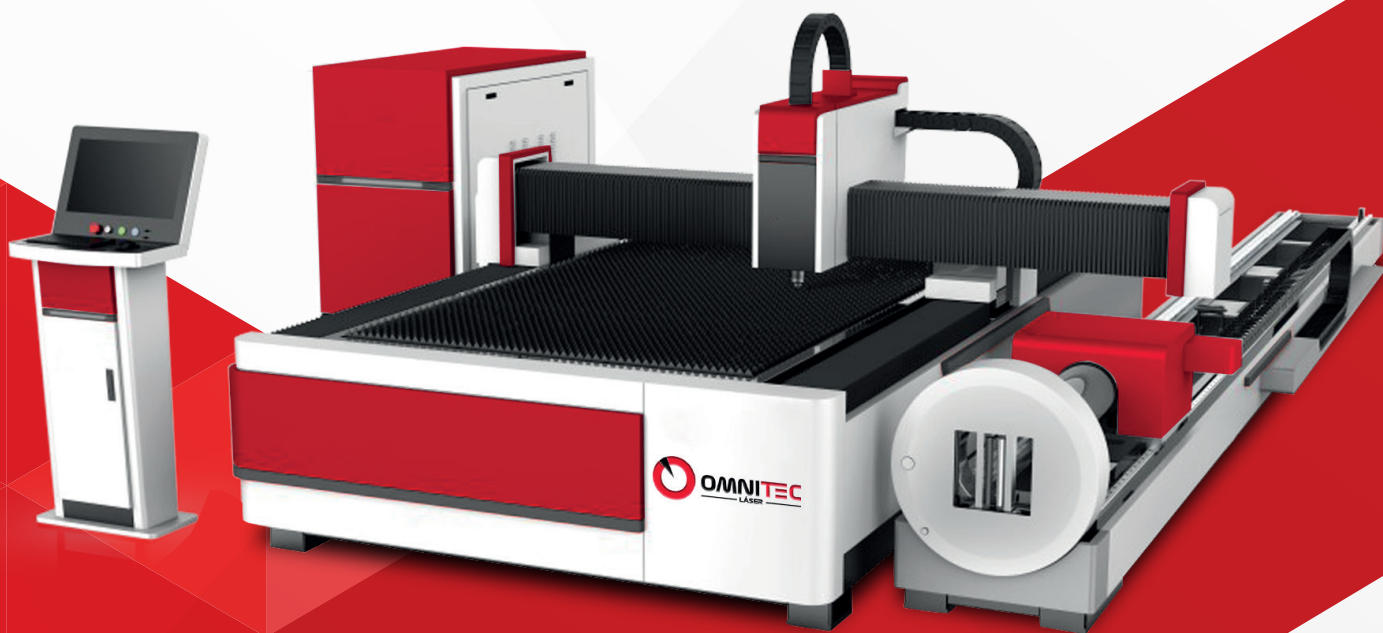




OMNITEC

LÁSER

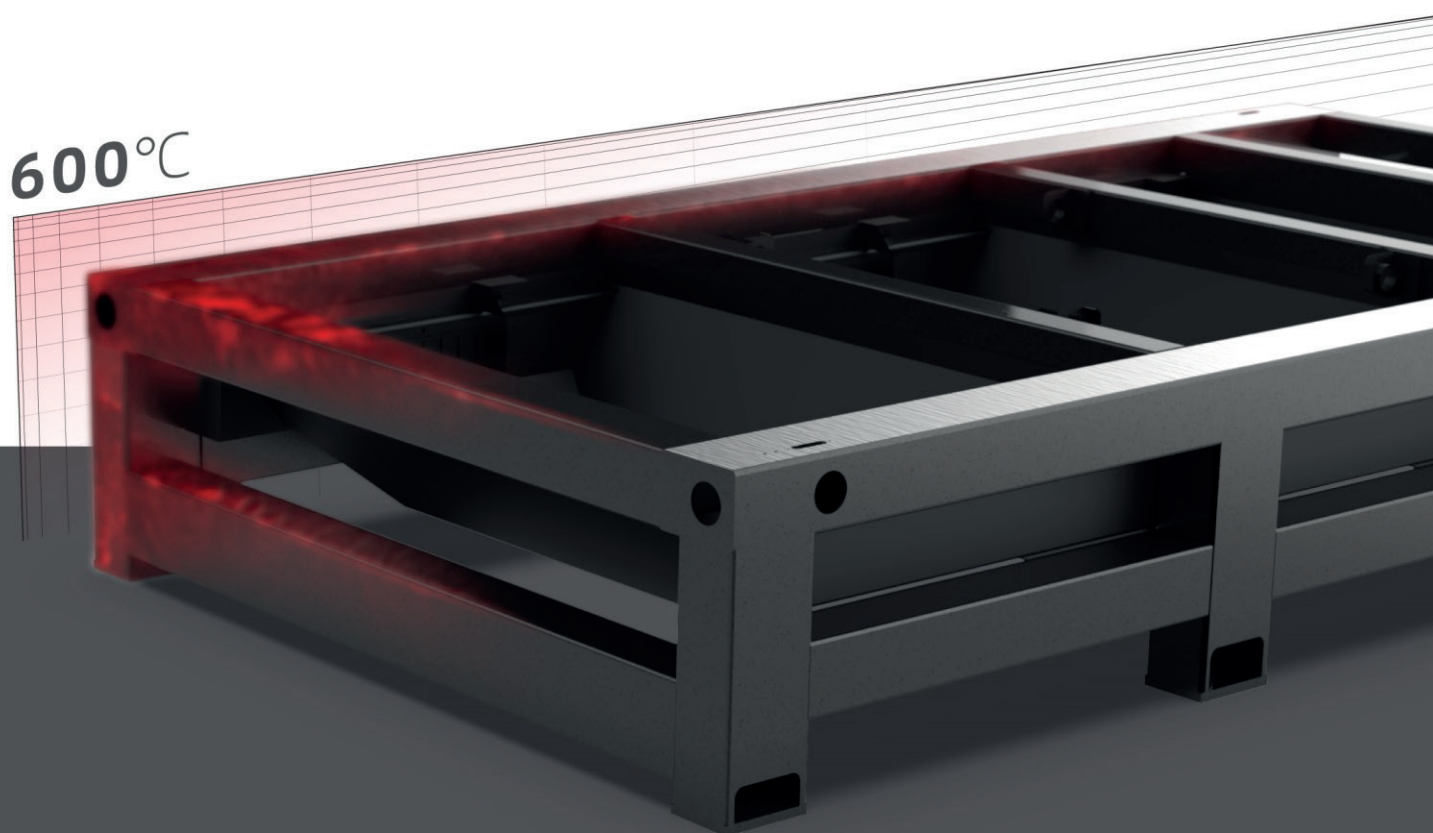


SMART SERIES

Laser Cutting Machines



| MODEL | SMART 3015 T | SMART 4015 T | SMART 6015 T |
|------------------------------------|--------------------------------|-----------------|-----------------|
| Cutting Area (LxW) | 3048mm x 1524mm | 4048mm x 1524mm | 6048mm x 1524mm |
| Laser Source | Fiber & 1500W - 12000W | | |
| 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 | | |



High strength machine bed

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



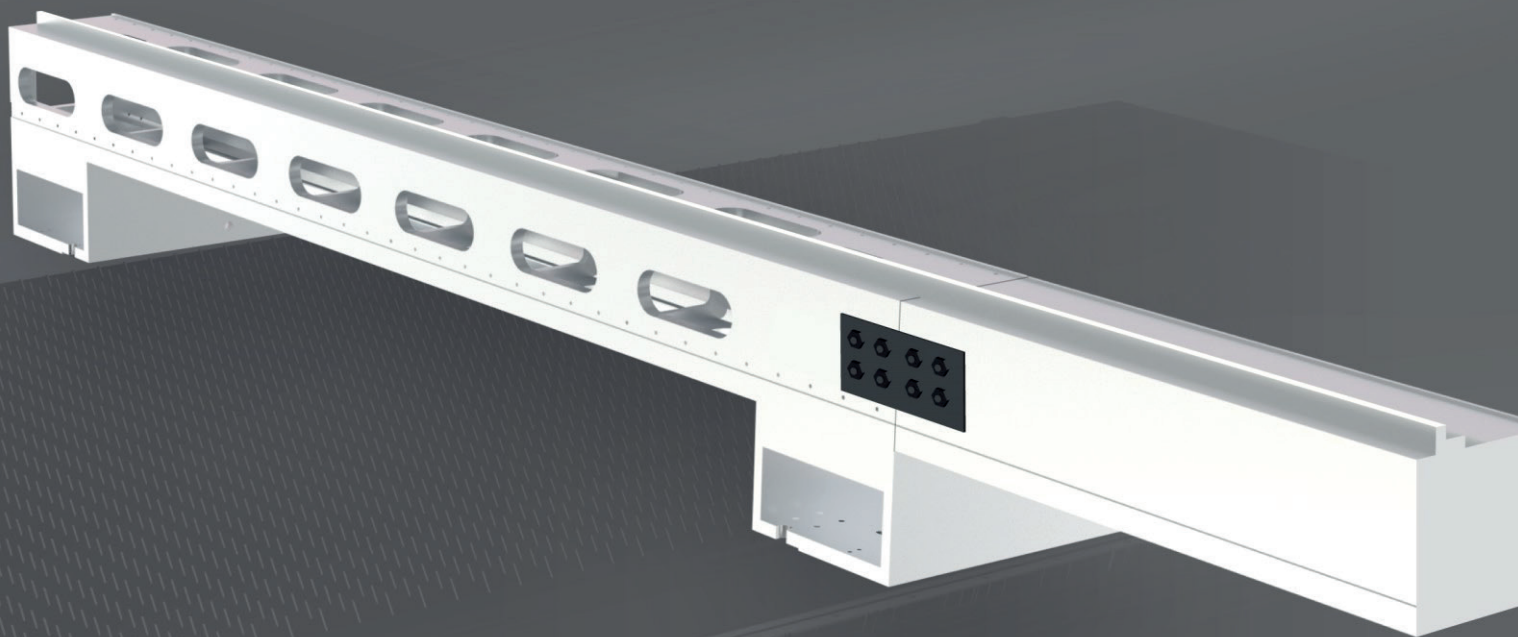
Small Deformation



Low Vibration

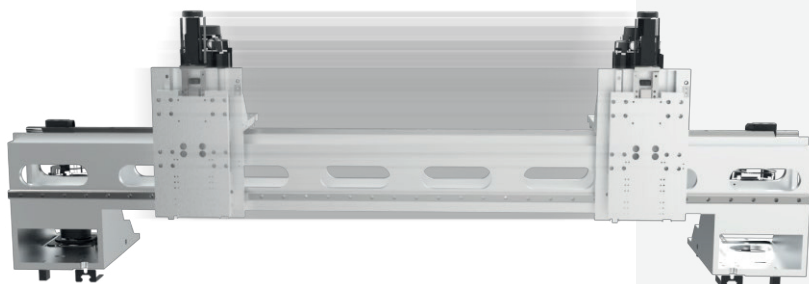


High Precision



Beam made of cast aluminum

The beam is formed by integral steel die and die casting technology to improve processing efficiency and quality. The pipe cutting part is detachable and can be loaded into 40GP container



High Speed

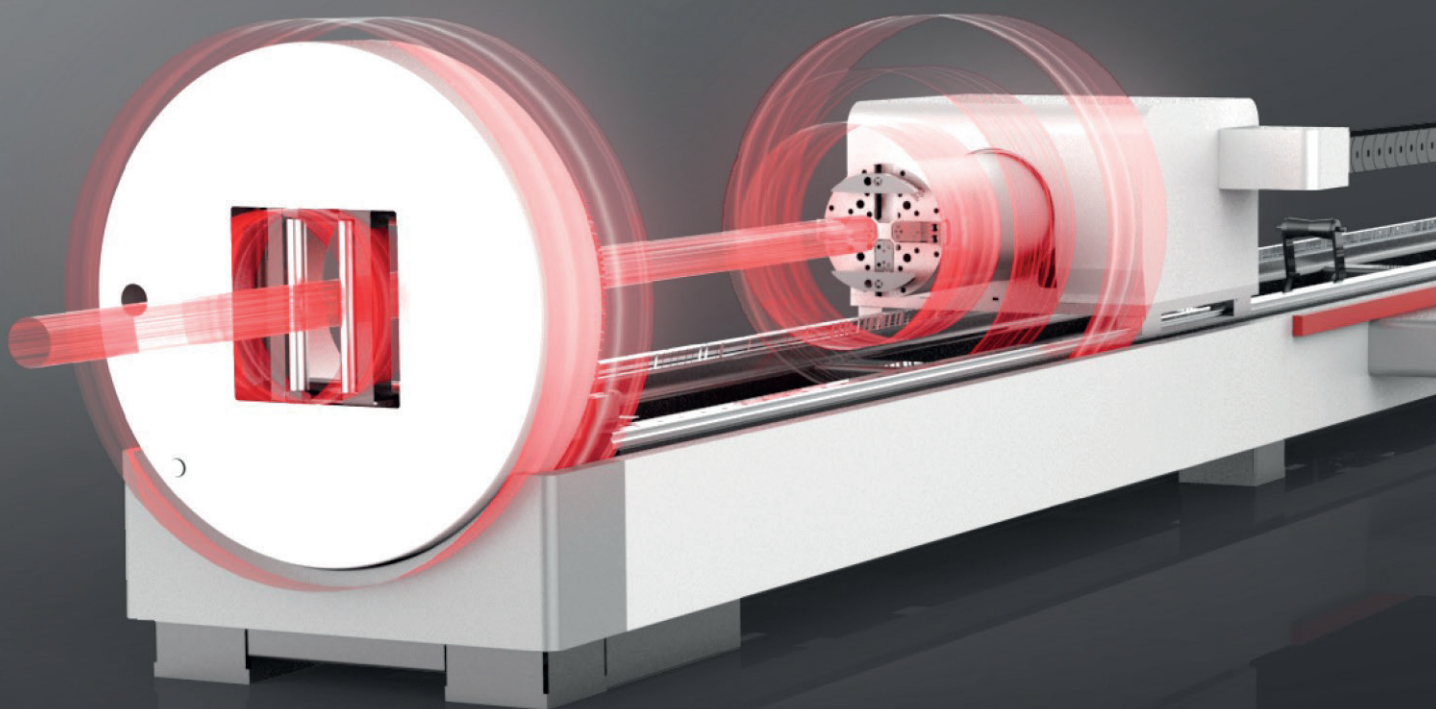
The light crossbeam can ensure the machine have high moving speed and improve the processing efficiency.



Higher photoelectric conversion efficiency

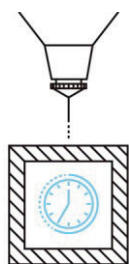
Second generation optical fiber transmission system
Better and more stable beam quality

6000W
4000W
3000W
2000W
1500W
1000W

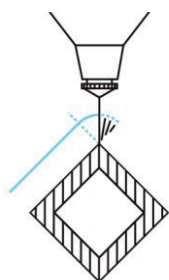


Design of a pneumatic chuck

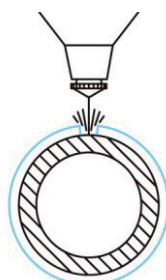
The front and rear chuck clamping design is easy to install, saves labor, and has no wear and tear. Ensure feeding stability and cutting accuracy; Automatic center adjustment, suitability for various pipes, and a high chuck rotation speed can all improve processing efficiency.



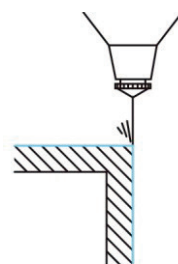
Breakpoint
memory



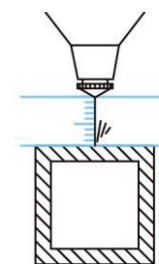
Corner cutting
optimization



Cutting with
protective film



Off board
follow



Fixed height
cutting

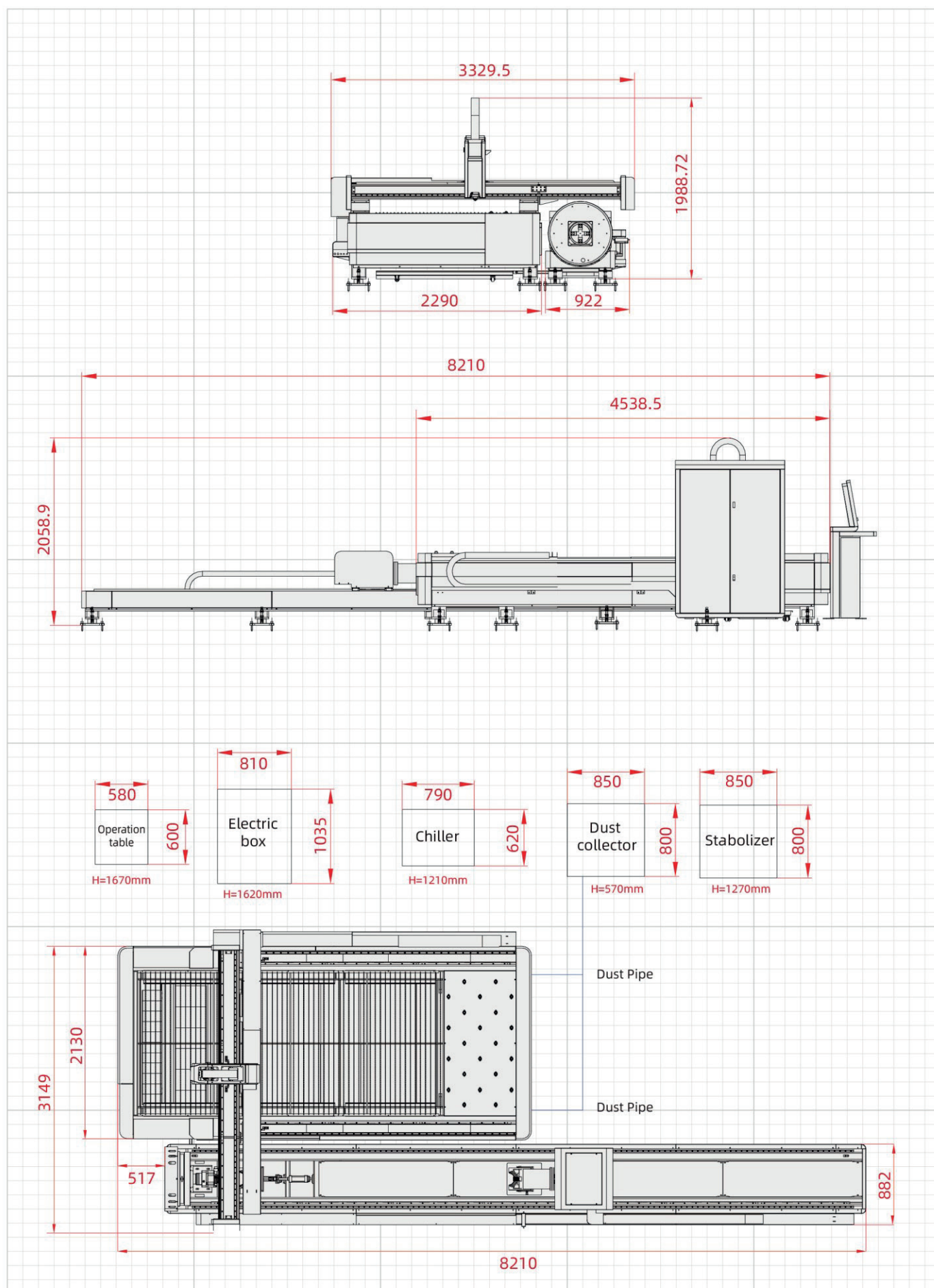
TECHNICAL SPECIFICATIONS

| Machine Model | SMART3015T-3000 |
|------------------------------------|--------------------------------|
| Cutting Area (L×W) | 3048mm×1524mm |
| Laser Source | Raycus Fiber & 3000W |
| Transmission system | Gantry double- drive structure |
| CNC System | FSCUT 3000S |
| Servo Motor | INOVANCE |
| Laser Cutting Head | Raytools |
| Display | 21.5" Industry LCD |
| Max Moving Speed | 100m/min, Acceleration is 1.2G |
| Tube Processing Range | D20-D230mm |
| Tails Length | 180mm |
| 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) | 2600 KG |
| Machine weight | ≤5400 Kg |
| Appearance size | 8210mm×3150mm×2060mm |
| Working environment | Temp:0- 40 °C,humidity:≤80%, |

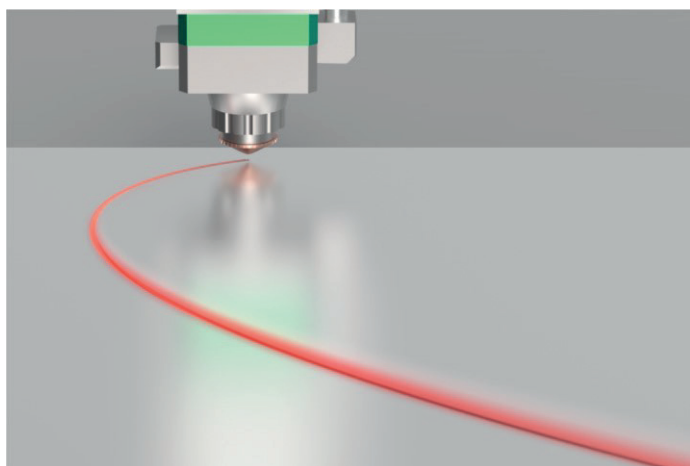
MACHINE CONFIGURATION

| NO. | Model | Name | Quantity | Remarks |
|-----|---------------------|---|----------|--|
| 1 | SMART3015T-3000W | Fiber laser cutting machine (3000mm*1500mm) | 1 set | HGTECH |
| 2 | 3000W | Laser generator | 1 set | RAYCUS |
| 3 | Water chiller | Special water chiller for fiber laser generator | 1 set | HANLI 3000W |
| 4 | Laser head | High accuracy professional fiber laser head | 1 set | Swiss Brand Raytools Auto Focus |
| 5 | Control system | FSCUT3000S | 1 set | FSCUT3000S |
| 6 | Software | CYPCUT | 1 set | CYPCUT |
| 7 | Driving system | High speed servo motor | 4 set | Inovance servo motor X axis 850w Y axis 1300w, Z axis 400w |
| 8 | Reducer | imported | 3 set | Motovario Franch |
| 9 | Electric components | imported | 1 set | Schneider |
| 10 | Guide rail | imported | 1 set | ITALY PEK |
| 11 | Rack | imported | 1 set | T-win Taiwan |

MACHINE OCCUPATION MAP

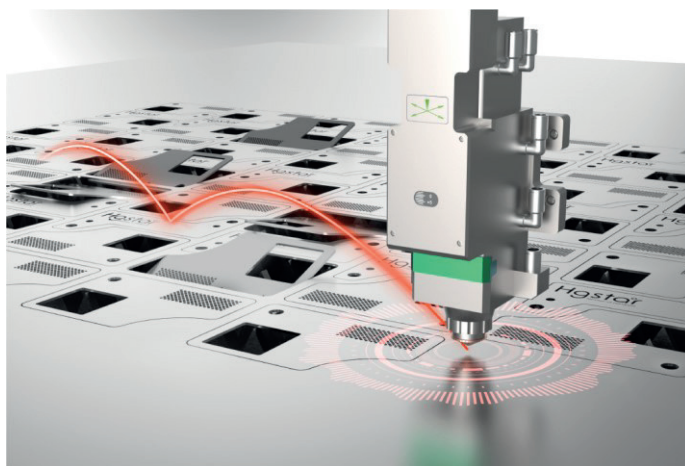


EXCELLENT FUNCTION



Vibration Suppression

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



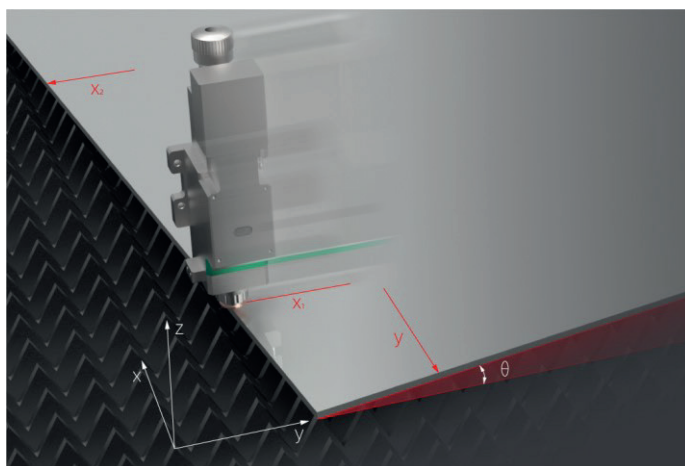
Intelligent obstacle avoidance

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



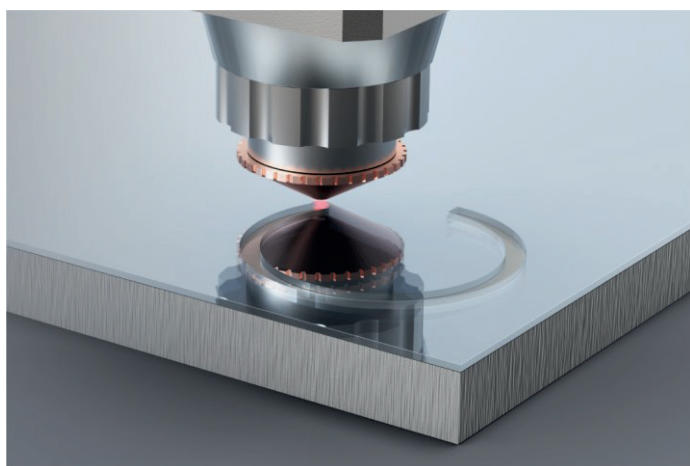
Exclusive tuning database

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



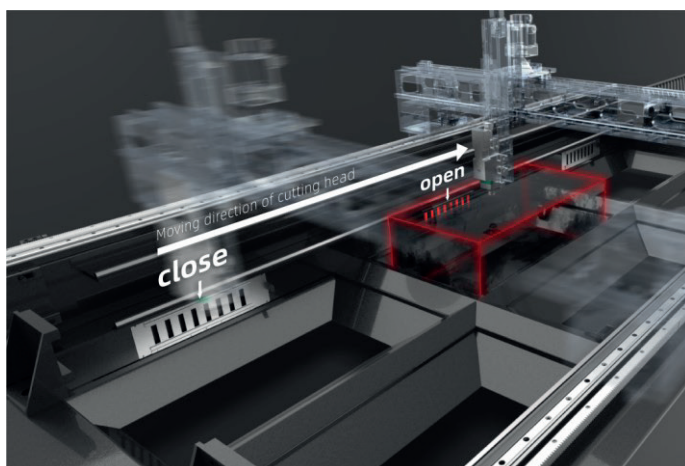
Three point edge finding

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

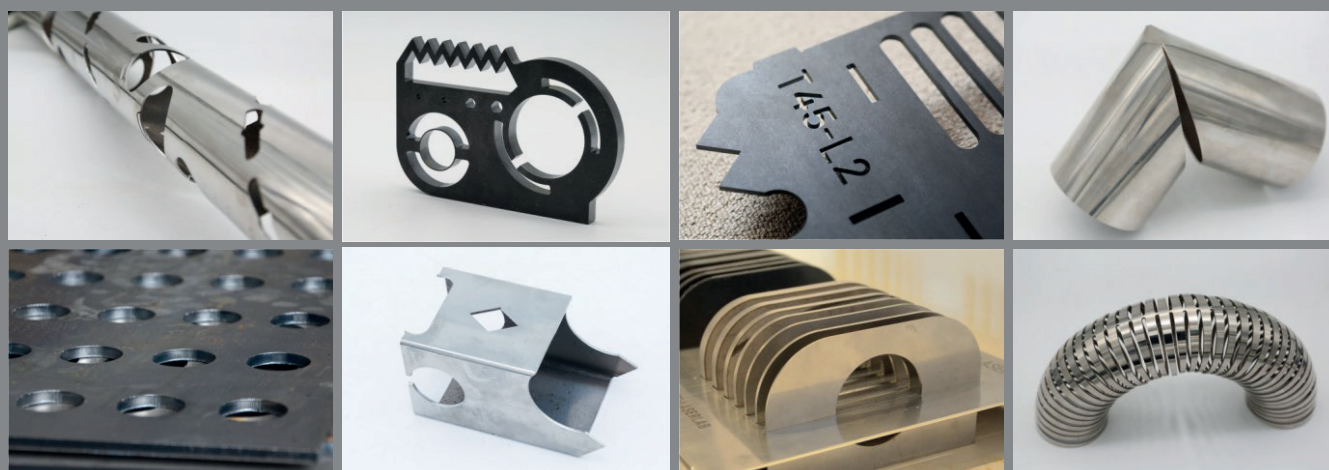
Through fine setting, the dust removal tuyere can be opened and closed with the movement of the cutting head. Under the same fan configuration, the dust removal effect is effectively enhanced

CUTTING PARAMETER

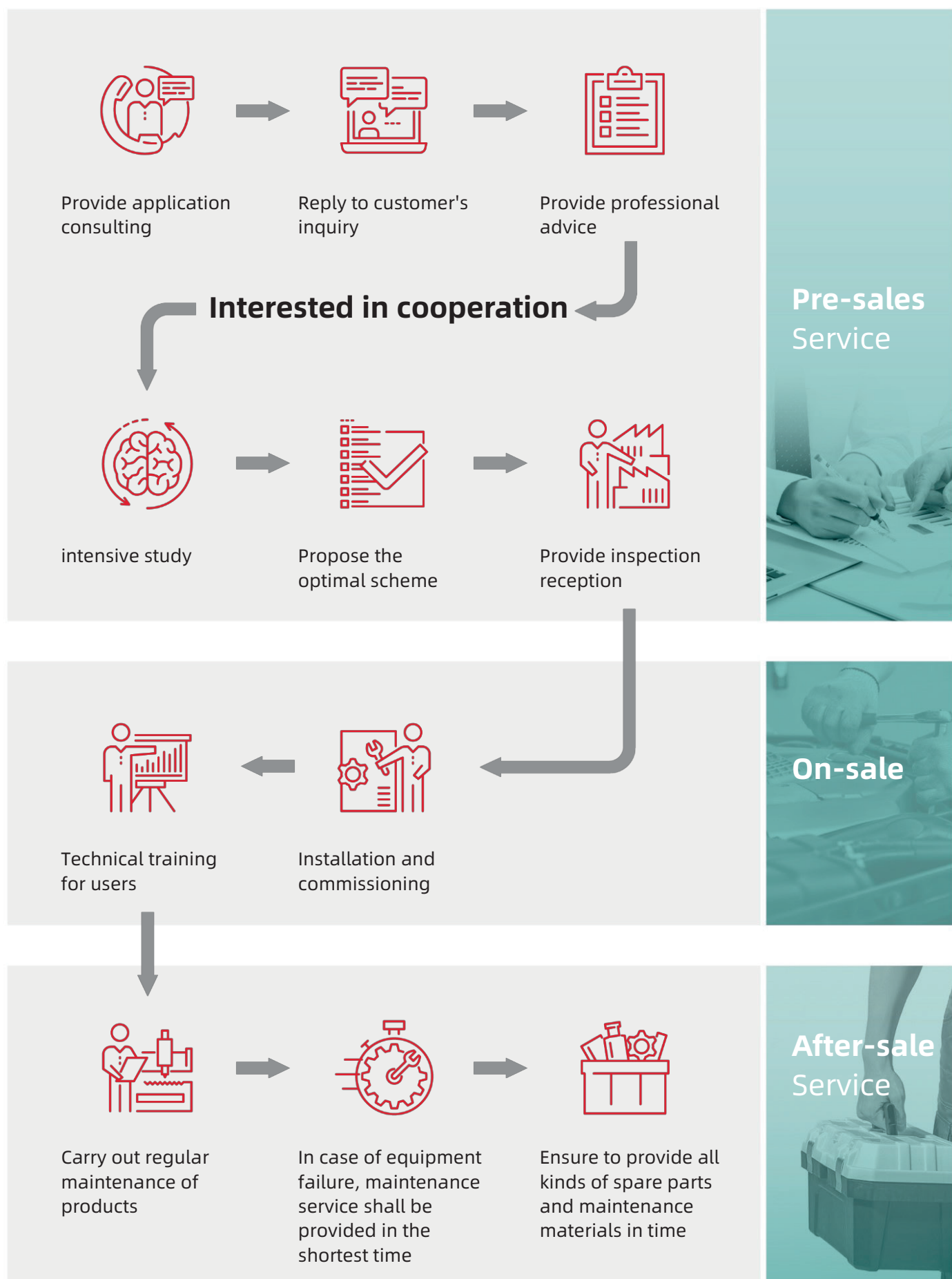


Cutting Samples

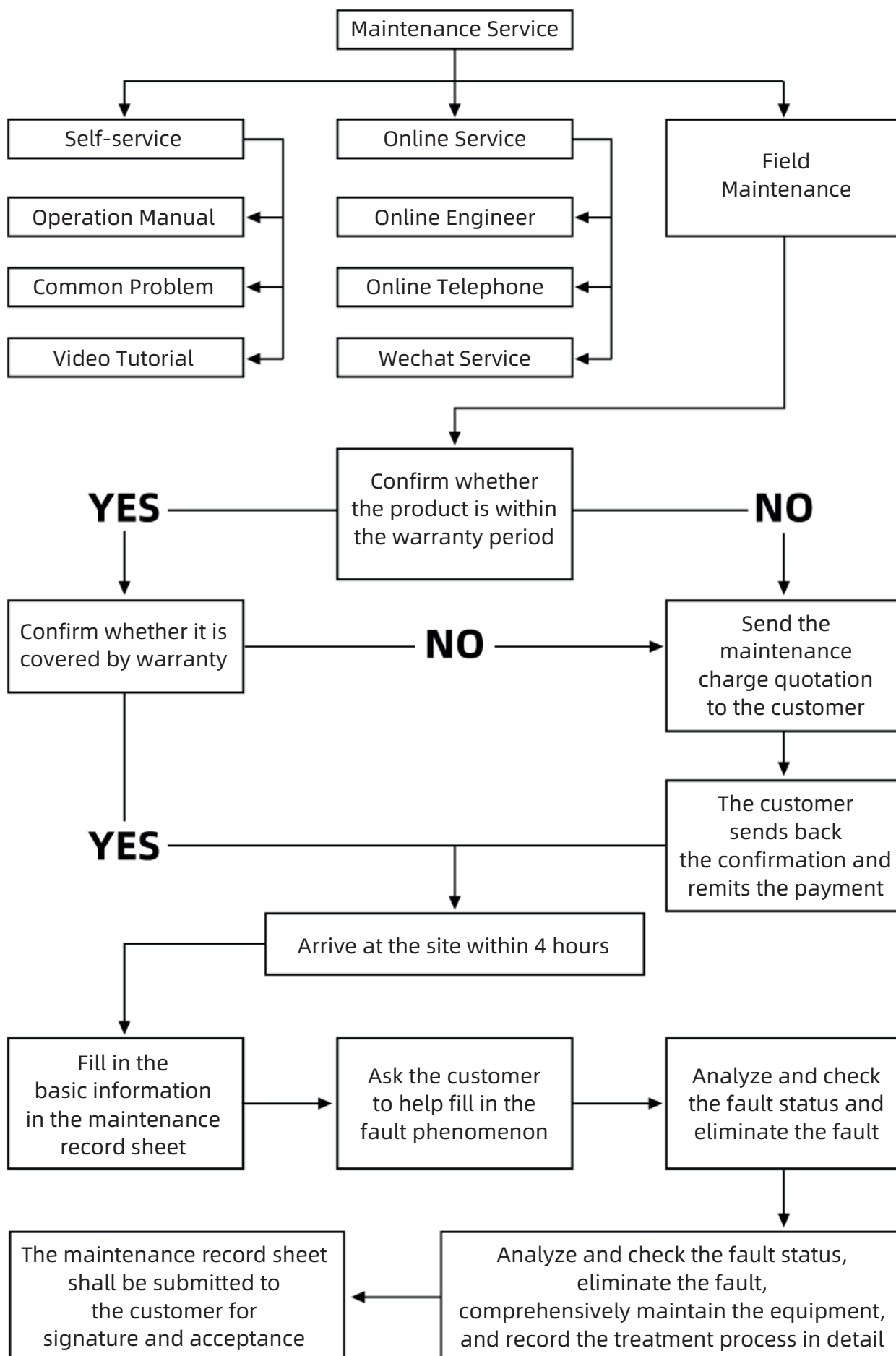
Applicable to cutting carbon steel, stainless steel, aluminum, brass , alloy metals, etc.



SERVICE PROCESS



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



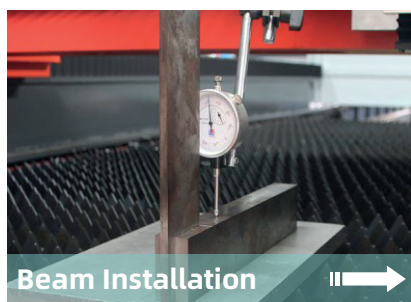
Rail Installation ➡

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 rail 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



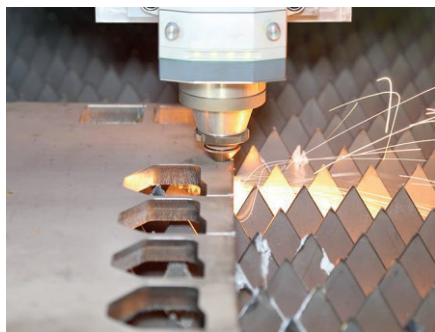
Pack And Ship ➡

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

1

Machine Inspection



2

Component Fixing



3

Protective Film Wrapping



4

Wooden Boxseal



5

Edge Reinforcement



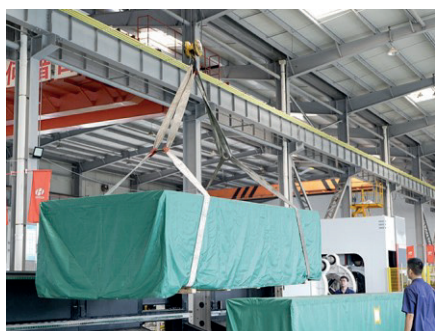
6

Separate Packaging



7

Lifting Rail Transfer



8

Container Loading



9

Transportation





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