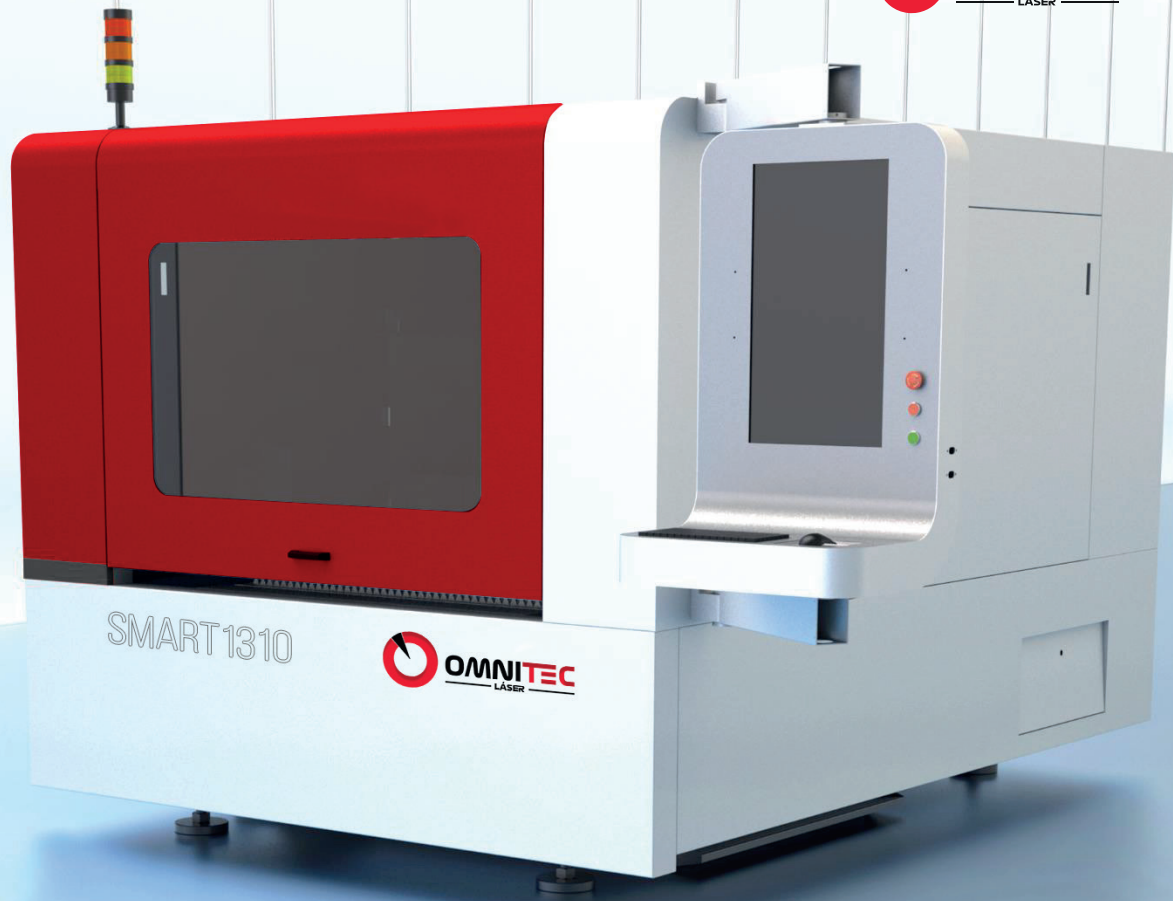




**OMNITEC**  
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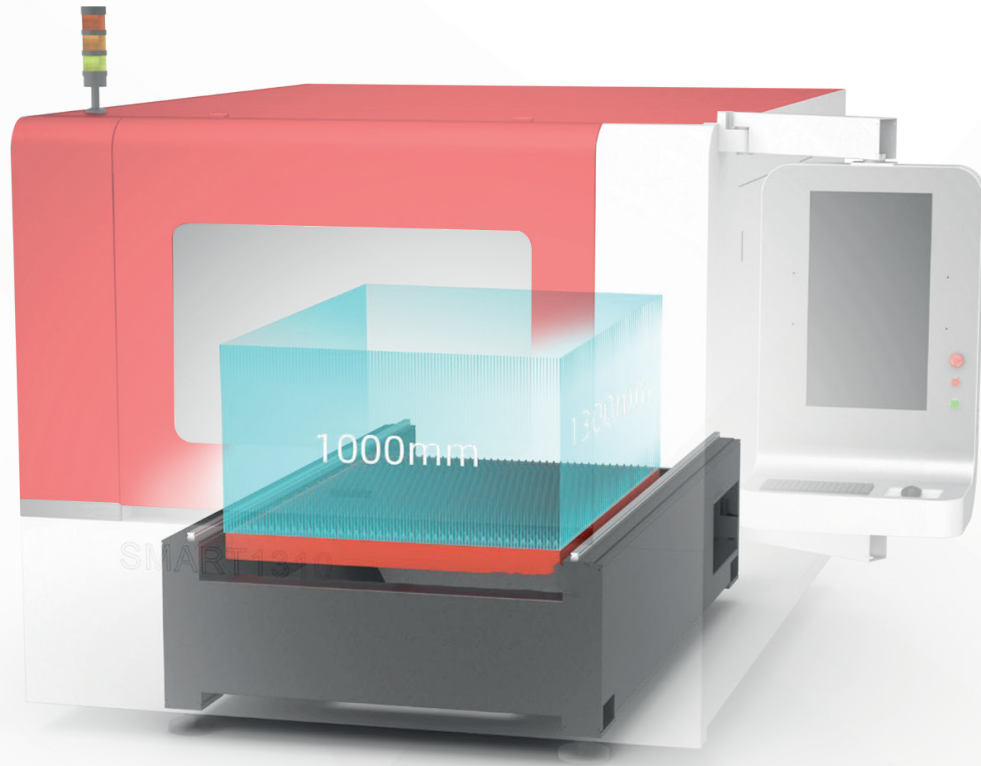


**SMART 1310 SERIES**  
Laser Cutting Machines



MODEL	SMART 1310
Cutting Area (L×W)	1300mm x 1000mm
Laser Source	Fiber & 1500W – 3000W
CNC System	FSCUT
Max Moving Speed	60m/min, Acceleration is 0.5G
Position Accuracy (X and Y axis)	0.03mm
Reposition Accuracy (X and Y axis)	0.02mm
Power Supply Requirement	380V 50/60Hz

# MACHINE BED DETAILS

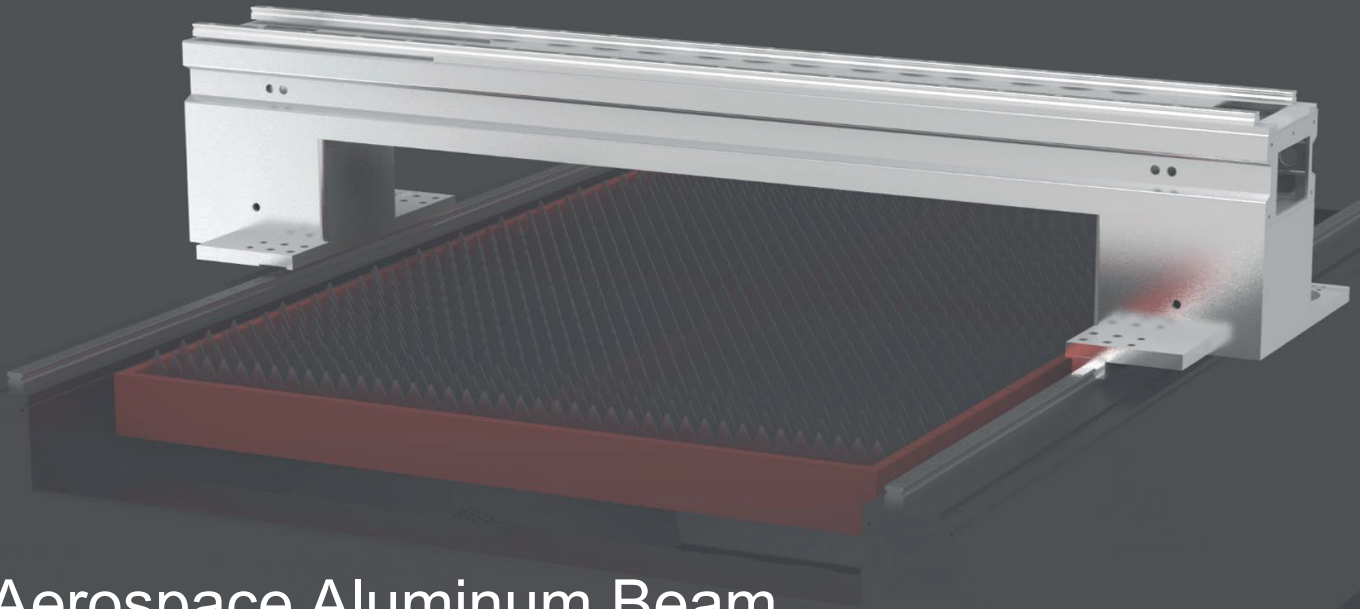


## Compact and Flexible for High Efficiency

The 1300x1000mm bed design occupies less space, making it ideal for small processing sites or laboratory environments.



# BEAM DETAILS



## Aerospace Aluminum Beam

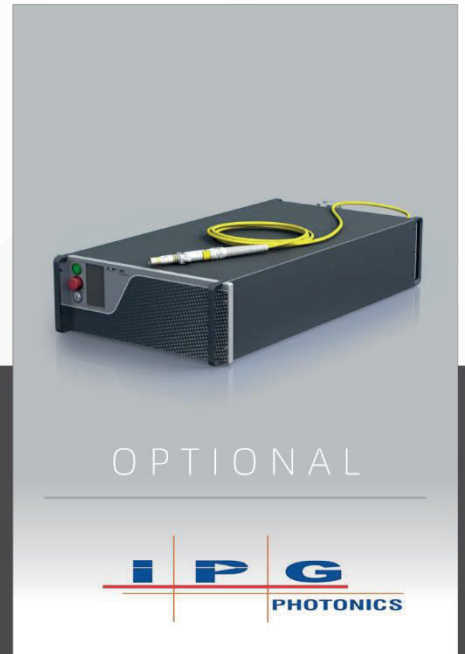
Lightweight design ensures high-speed movement of the machine, enhancing production efficiency

## Fully Enclosed Protection Design

Features a CE-certified laser protective glass observation window for enhanced safety and laser leakage prevention.



# LASER SOURCE



## Higher photoelectric conversion efficiency

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

3000W  
2000W  
1500W  
1000W



## Quick Installation and Easy Maintenance

Aviation plug design enables fast installation and plug-and-play operation, reducing wiring complexity, improving maintenance efficiency, and ensuring long-term stable performance



# TECHNICAL SPECIFICATIONS

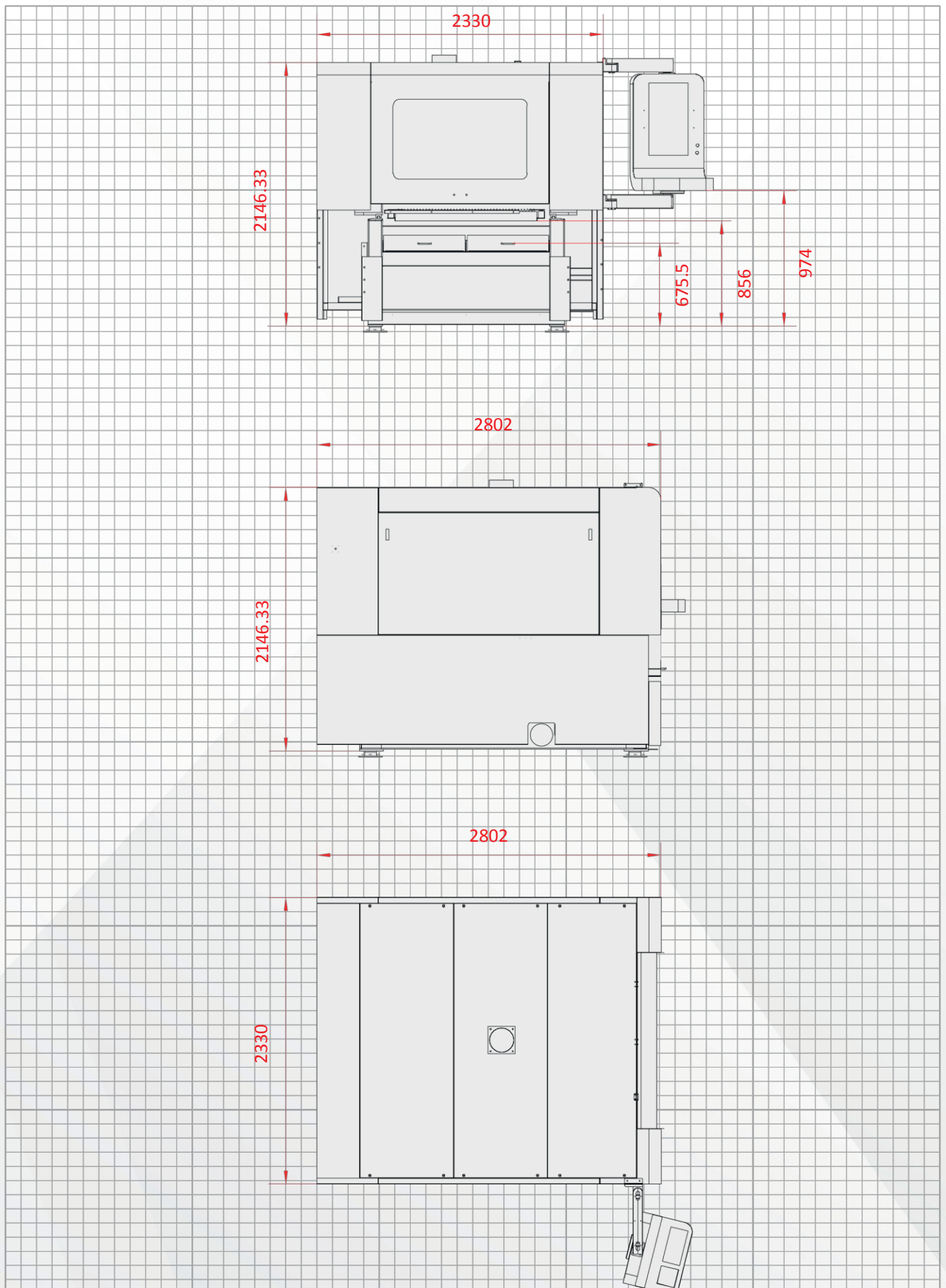
<b>Machine Model</b>	<b>SMART1310-3000</b>
Cutting Area (L×W)	1300mm×1000mm
Laser Source	Raycus Fiber & 3000W
Transmission system	Dual sides driven gantry structure
CNC System	FSCUT 2000E
Servo Motor	Yaskawa
Laser Cutting Head	Raytools BM111
Display	22" Industry LCD
Max Moving Speed	60m/min, Acceleration is 0.5G
Position Accuracy (X and Y axis)	0.03mm
Reposition Accuracy (X and Y axis)	0.02mm
Lubrication system	Full-automatic
Power Supply Requirement	380V 50/60Hz
Max loading (KG)	100 KG
Machine weight	≤2170 Kg
Appearance size	2800mm×2330mm×2150mm
Working environment	Temp:5- 35 °C,humidity:≤70%

# MACHINE CONFIGURATION

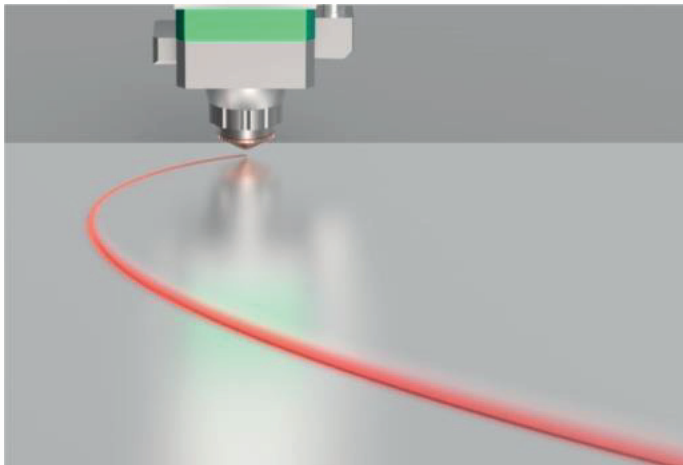
NO.	Model	Name	Quantity	Remarks
1	SMART1310-3000W	Fiber laser cutting machine (1300mm*1000mm)	1 set	OMNITEC
2	3000W	Laser generator	1 set	RAYCUS
3	Water chiller	Special water chiller for fiber laser generator	1 set	HANLI
4	Laser head	High accuracy professional fiber laser head	1 set	Raytools BM111
5	Control system	FSCUT2000E	1 set	FSCUT2000E
6	Software	CYPCUT	1 set	CYPCUT
7	Driving system	High speed servo motor	4 set	Japan Yaskawa servo motor X axis 750w Y axis 750w, Z axis 400w
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

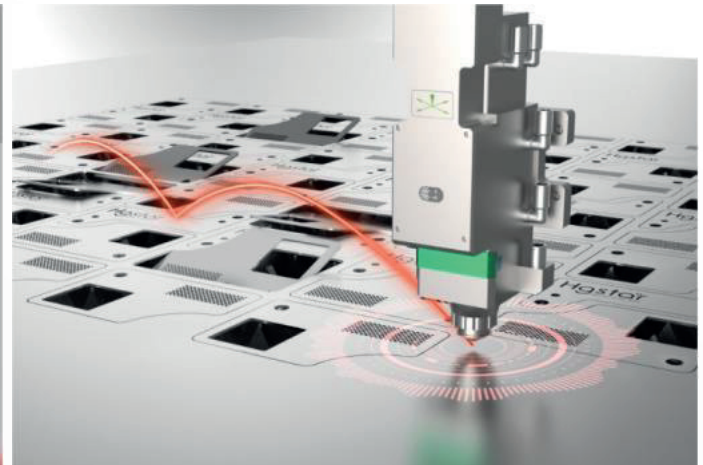


# EXCELLENT FUNCTION



## Vibration Suppression

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



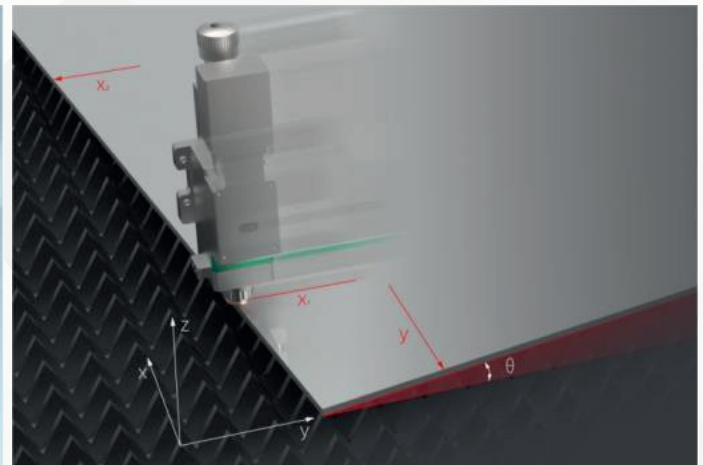
## Intelligent obstacle avoidance

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



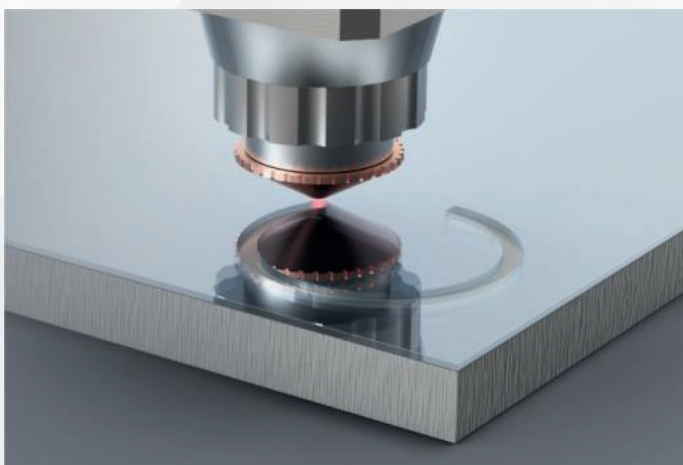
## Exclusive tuning database

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



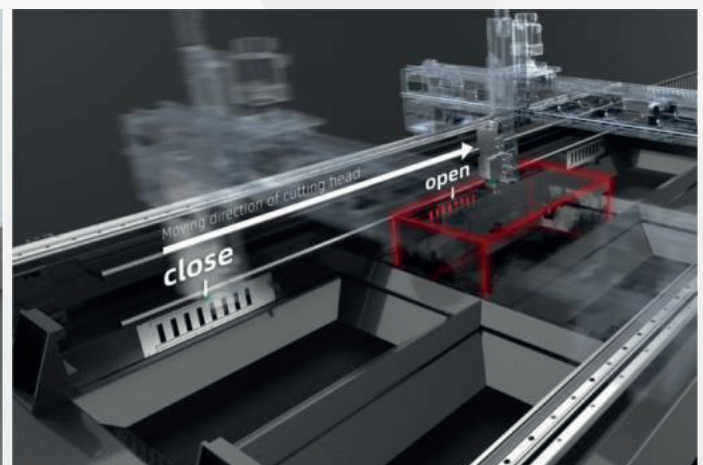
## Three point edge finding

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

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

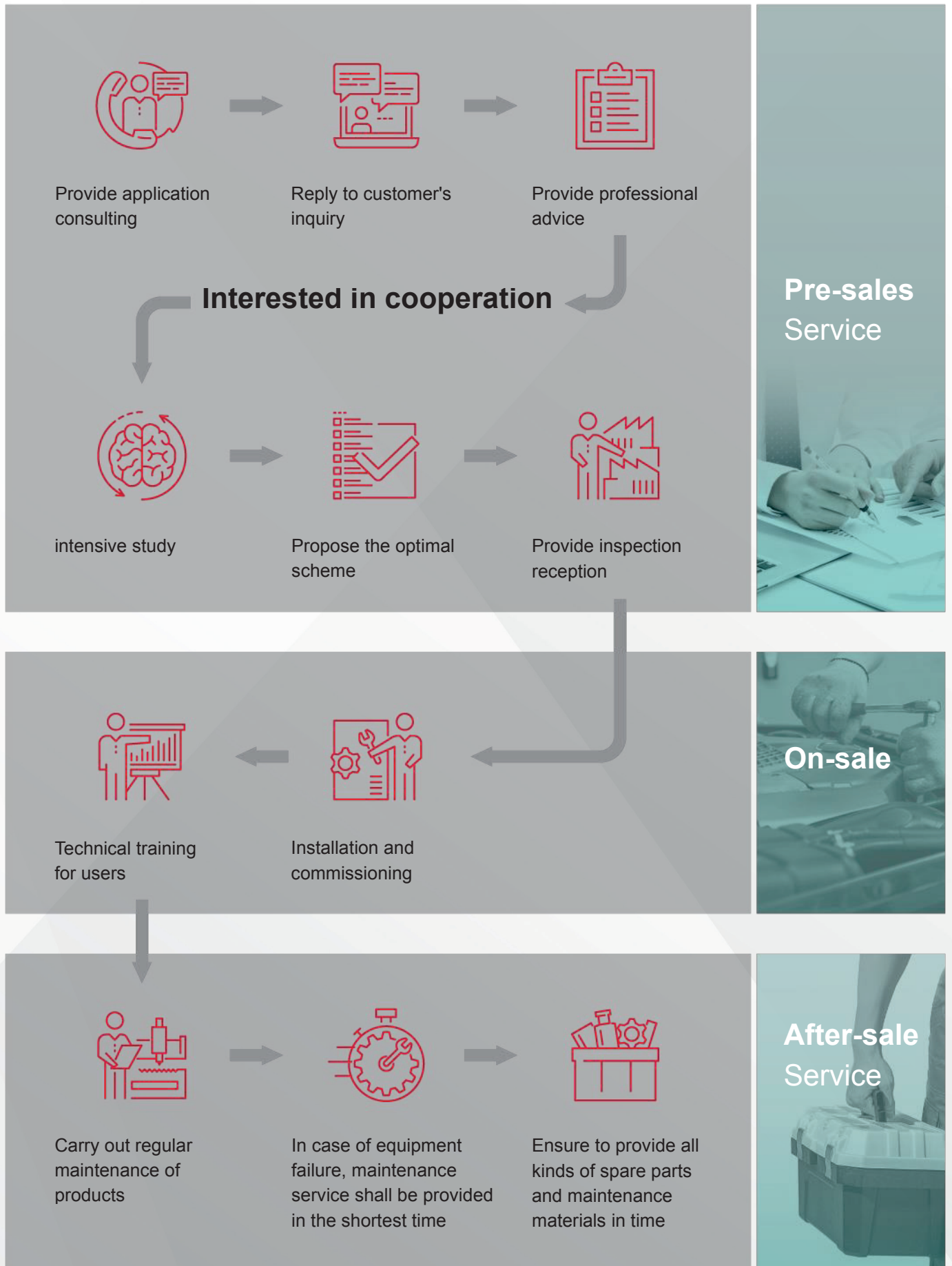


## Cutting Samples

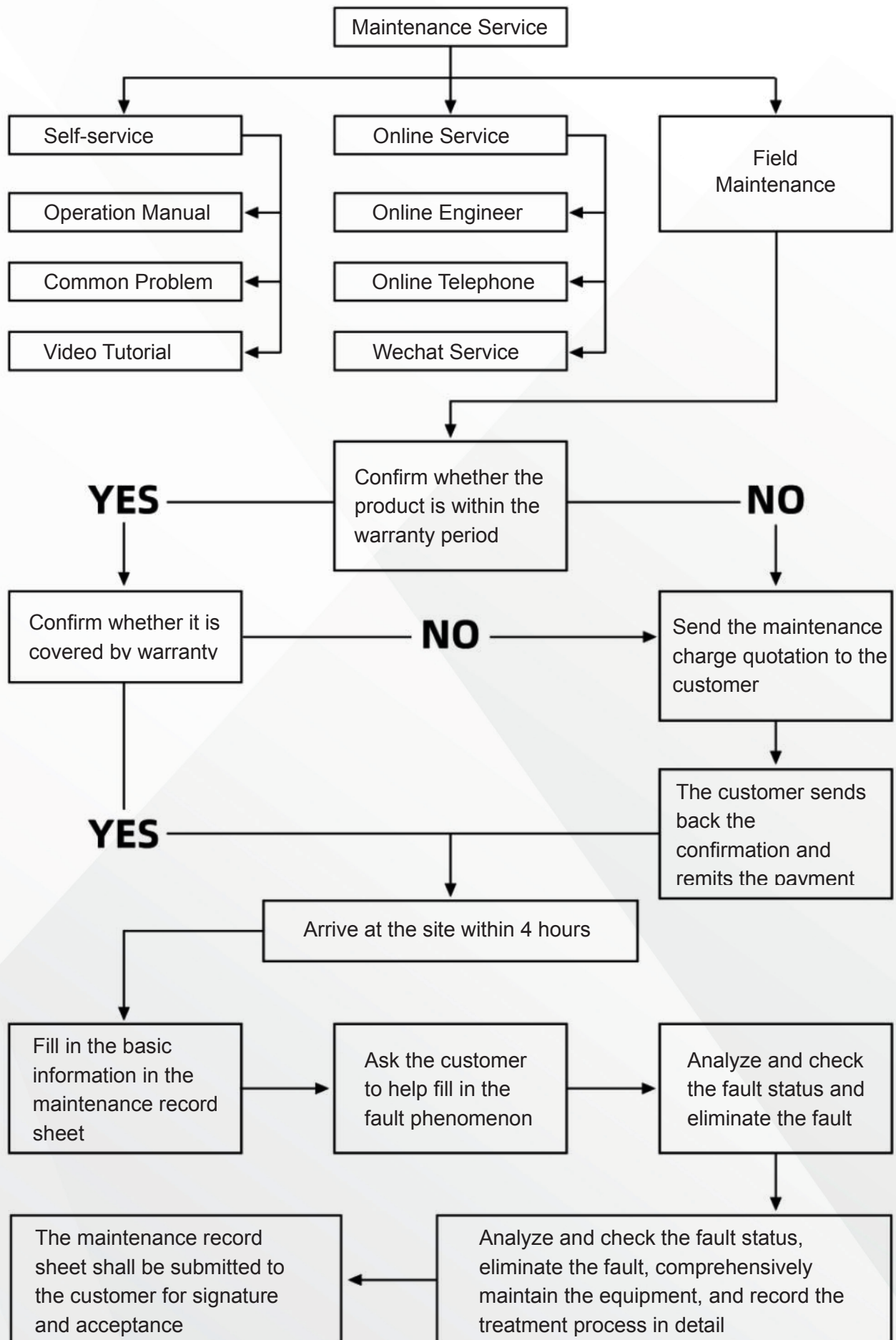
Applicable to cutting carbon steel, stainless steel, aluminum, brass , alloy metals, etc.



# SERVICE PROCESS



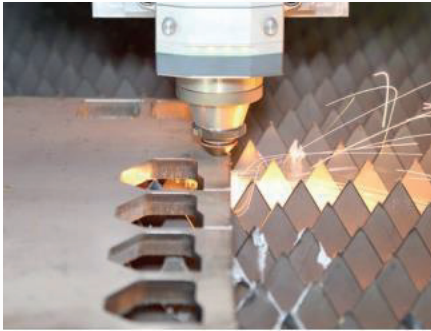
# SERVICE MAINTENANCE PROCESS



# SERVICE 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**





**OMNITEC**  
LÁSER

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