

FIBER LASER METAL SHEET CUTTER



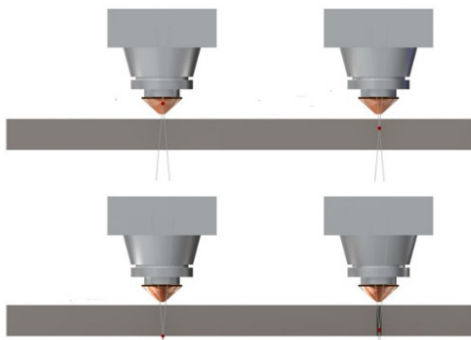
Our **ACCU STAR** model includes:

Main machine, dual servo motor drive system, Z-axis, laser cutting head, laser source, Fscut control system, water chiller, transformer, stabilizer, etc.

► Machine Main Features

- Equips with laser generator, LEITESEN Rack & Pinion system, IGUS electric cable.
- High Rigidity Enhanced Aviation Aluminum Gantry.
- Rack and pinion structure, servo drive, secondary annealing treatment for highly rigid welded frame with high accuracy and stability.
- Professional laser cutting software with graphic layout and nesting functions, fast piercing & cutting.
- Fiber laser has Industry-leading wall-plug efficiency (around 30%), less power consumption.
- A wireless Hand controller is available, for easy operation.
- Compact design, small footprint.

► Auto-focus Features:

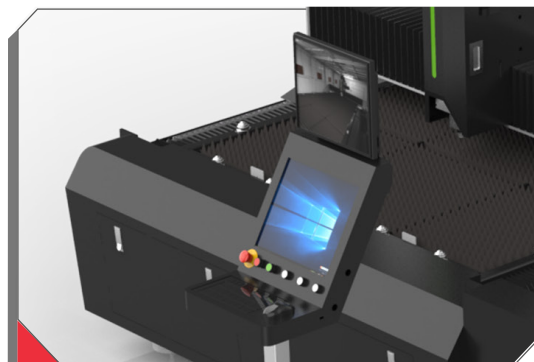


The focus is controlled by the inner precision servo motor, with no need for manual adjustment.



► Raytools Laser Cutting Head

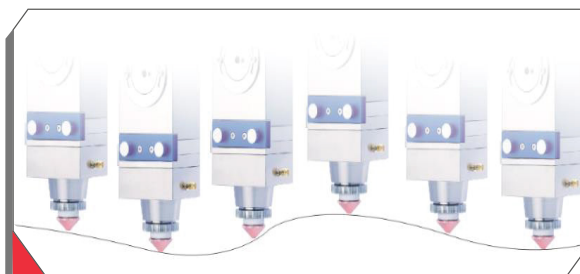
The device shows excellent results in industrial machines of medium and high power due to its high quality and performance parameters.



► Industrial Computer

► Leapfrog:

A parabolic lifting motion is adopted between cutting contours, while the traditional cutting system uses "rectangular" motion. The system sets the take-off height and the highest height through PLC, and the contour switching process automatically realizes "frog jump", which greatly improves cutting efficiency.



Optional laser Source:

The generator is suggested according to the specifications and cutting needs



BC Power laser source



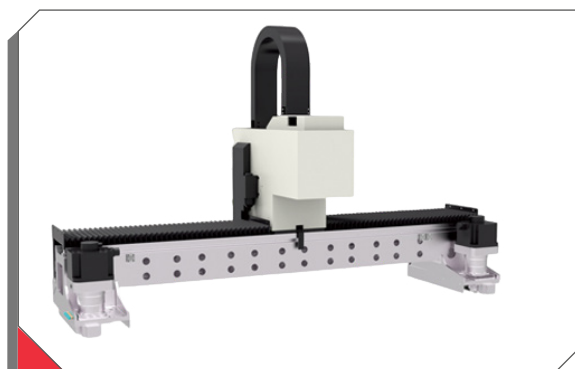
► **MAX Photonics Laser Source**



► **IPG laser source**

► Gantry double drive system YM (China):

Reinforced welded body. The stress is eliminated by tempering and vibration aging to ensure that the machines deformation tolerance is within 0.02 mm.



Optionals Chillers



► **S&A Chiller**



► **TongFei Chiller**



► Solenoid Valve (SMC)

The circuit function of the solenoid valve is normally closed (voltage = open) and semi-direct operating, so no pressure differential is required.



► Servo motor (Delta)

The servo motor enjoys fast dynamic response speed and performs stably. It has high inertia and large torque output.



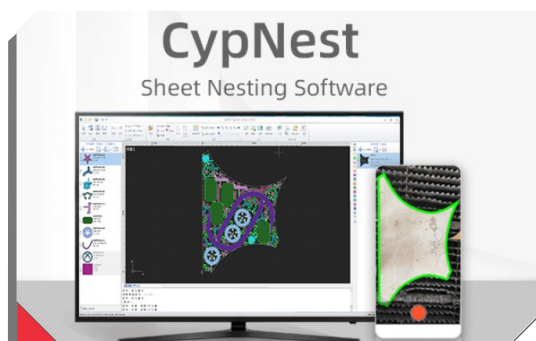
► IGUS Cable

High flexible cable, suited for long term durability.



► Automatic lubrication

The lubrication time period can be set in the software, to ensure the accuracy of transmission system, operator just need to set up the time break in the software and keep the oil container full.



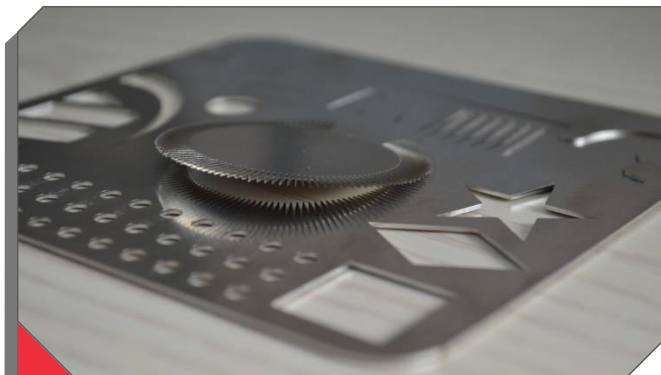
► CypNest (optional)

is an upgrade nesting software designed for CypCut/HypCut sheet laser cutting system. It integrates advanced functions of drawing modification, quick nesting, toolpath generation such as heat concentration avoidance, analysis report, price report and more to meet your production needs.

► CypCut Software & System:

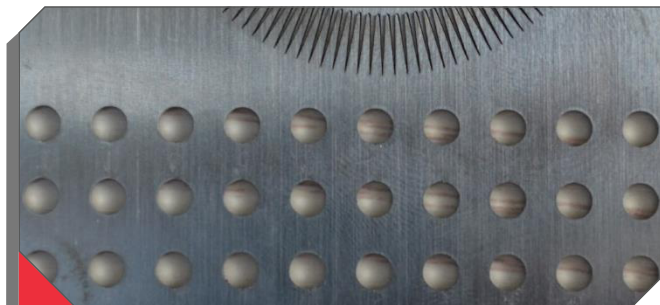
- Support DXF/AI/PLT/Gerber formats, accept Master Cam, Type3 output international standard G code.
- Lead-in/out, cutting compensation, micro-joint, bridging, back entry, gap cutting etc.
- Multiple piercing methods available, separated laser power/frequency/ gas type/ gas pressure/ height track can be set during cutting and piercing.





► Power/Speed Control:

Allows corners to achieve a sharp. Edge

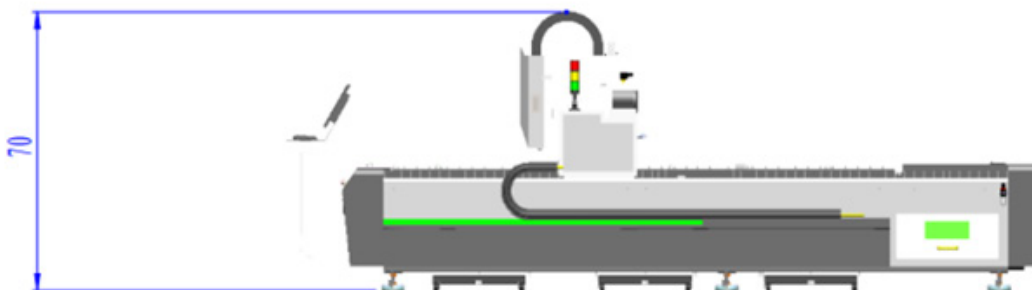
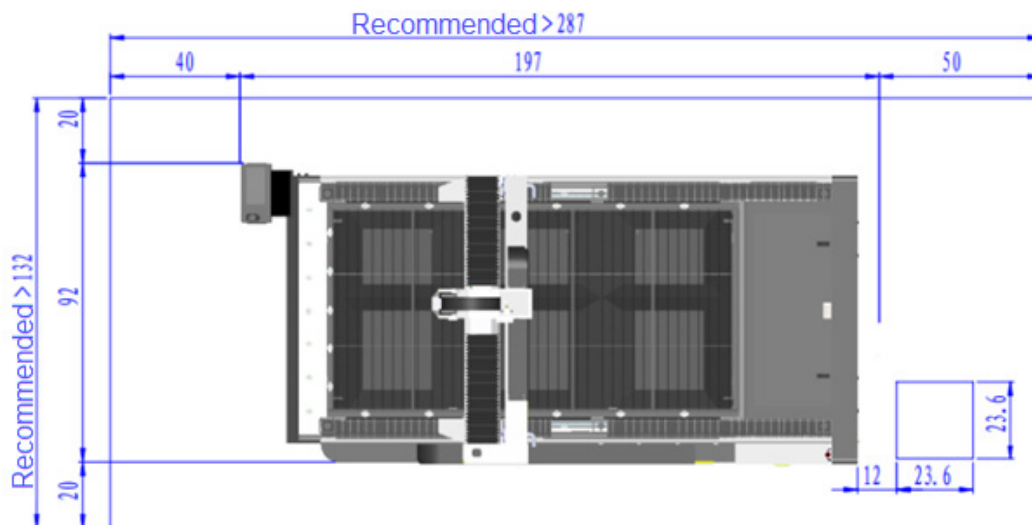


► Flying Cut:

The fast cut of matrix patterns. Especially for thin metal sheets.

Measurements for the installation plan:

Dimension in inches



ACCU STAR MACHINE CONFIGURATION

Laser Brand	BC Pwer / MAX / IPG	Germany/China
Laser Power	From 1,000W to 3,000W	Germany
Cutting Head	Raytools (Auto-focus)	China
	High rigidity Cast Aviation Aluminum Gantry, improve the gantry strength and rigidity and much lighter.	
Rack	Grinding grade precision rack.	GERMANY-LEITESEN
Gear	High frequency quenching.	GERMANY-LEITESEN
Rail	Heavy Duty Precision type.	GERMANY-ROUST WORLD
Servo Motor	Y 2x1500W, X 1x1000W, Z 1x400W	FRANCE- SCHNEIDER
Lubrication System	Automatic	
Shuttle Tables	No	
Pressure electronic control proportional valve	0~1.0MPa	Taiwan
High-pressure switch	0~2.5MPa pressure alarm, Gas consumption reminder.	China
Reducer	Planetary gearbox.	FRANCE
PC	Industrial	China
Software	Cypcut.	CHINA
Electrical system	Siemens, Schneider (core components) Delta	Germany
Chiller	Dual-temperature control.	China
Exhaust	380V - 50/60Hz - 3KW - 2900rpm Blower	China
Stabilizer	20-60 KVA AVR	China

After the machine is delivered, BES CUTTER will arrange technicians to conduct several days training for the machine operators. The training contents are as follow.

► Safety Training

- Learn about safety protection measures. For fiber laser machines.
- Master the necessary safety skills in the operation.

► Maintenance

- Check the Machine independently and complete the basic maintenance according to the maintenance requirement.
- Through training, the user can learn the basic safety procedures for maintenance.

► Operation Training

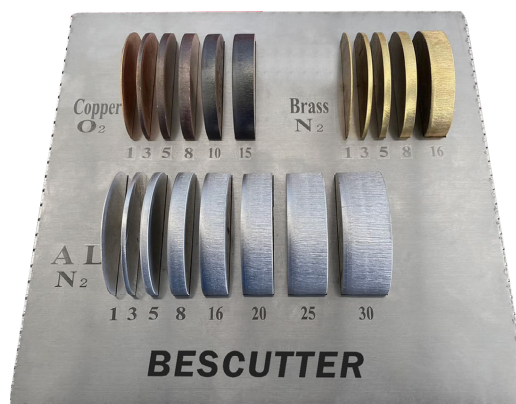
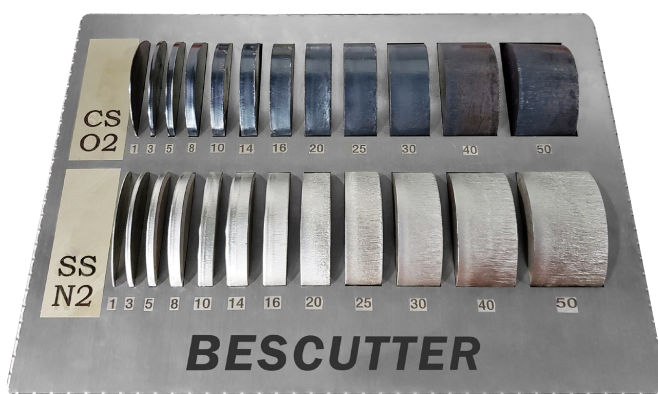
- Properly independently turn on/off the Machine.
- Identify and determine system information and troubleshooting.
- Learn the functions of different parts of the fiber laser cutting machines such as CNC control, loading and unloading the material, precautions or fiber laser use, operation, etc.
- Master the use of basic parameters to cut the parts with oxygen or nitrogen or air.
- According to the cutting material, optimize cutting parameters, and replace the cutting nozzle and lenses.

► Software Training

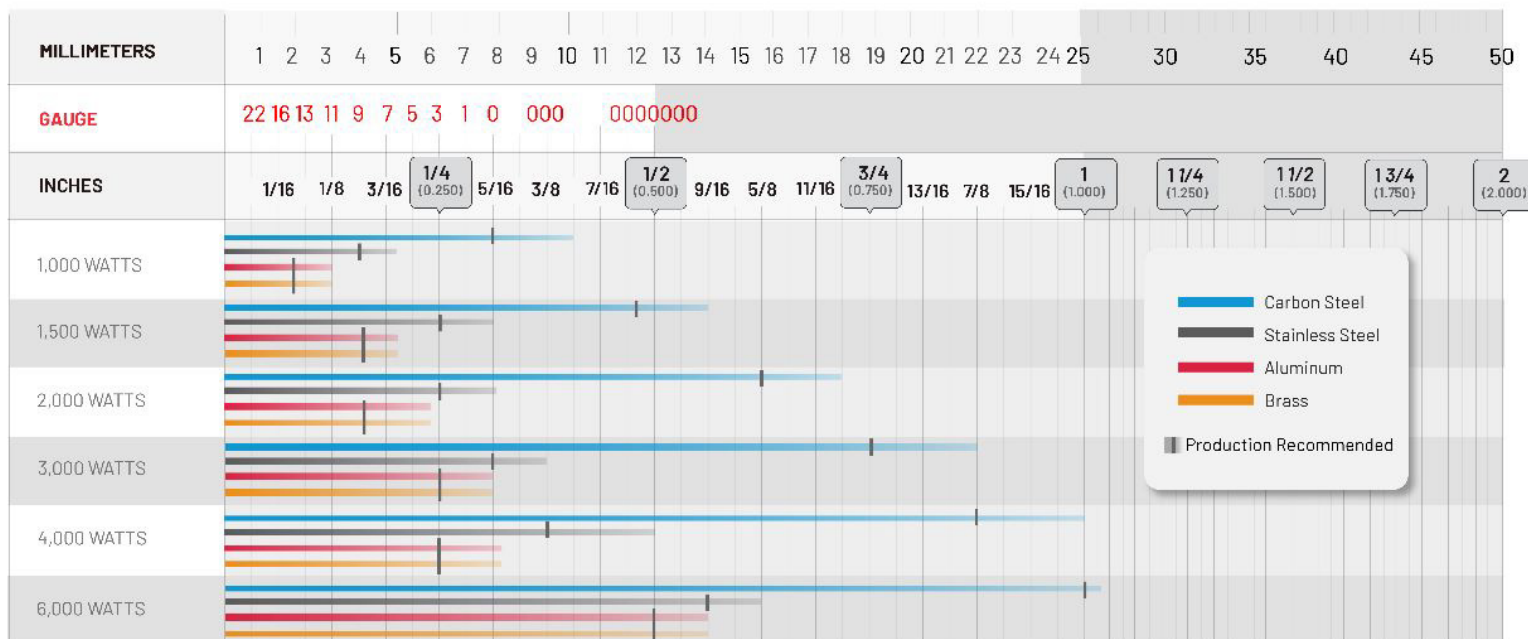
- After training, the operator will be able to install and use programming software independently.
- A single-part drawing can be prepared; or import
- Making the part cutting plan and production plan.
- The operator will be able to enter the cutting plan in the Machine; Calculate cutting time; Make the production report. And control the machine while it is running.



► Laser Cutting Application



1KW - 6KW POWER CUTTING CAPABILITIES REFERENCE CHART



Upgrade:



► Dust Collection System (optional)

Composite material processing dust removal, powder recovery, and many other occasions. Heavy-duty processes such as automated assembly lines.



► Air Compressor-Dryer (optional)

Compact Unit Structure and Low Noise Design.
No friction loss, high mechanical efficiency, no resistance loss of suction and exhaust valves.
Can be unattended all day work, no-load automatic start, full-load automatic shutdown.

Photos of the machine:

