

CE SGS



LAPTORTECH®

Fiber Laser Cutting Machine
RTF-3015H



Technical Parameters

Machine Model	RTF-3015H
Fiber Laser source	Raycus Laser Source
Laser Head	Switzerland Raytools (Auto Focus optional)
Transmission system	Dual-drive, precise rack and pinion
Guide rail	Taiwan HIWIN
Rack&pinion	Taiwan YYC
Speed Reducer	Motoreducer
Servo motor/ Servo Driver	Japan Fuji
Water chiller	HUAKU
Control System	Cypcut 2000
Solenoid valve	AIRTAC from Taiwan
Voltage regulator	30KVA (optional)
Electronics	France Schneider
Computer	ASUS Industrial Computer
Working area (L*W)	3000×1500mm
X-axis running area	3000mm
Y-axis running area	1500mm
Z-axis running area	100mm
X/Y axis Repeated Position Precision	±0.03mm
Machine gross weight	3500KGS
Voltage	Triphase 380V 50Hz



Laser source _ Raycus

- Direct control of all the fiber laser functions, Synchronized control of the laser source.
- High speed perforation.
- Cutting data library.
- More than 100,000 hours work-life of pumped diode, almost free maintenance.

Servo Motors and drivers _ FUJI

- The FUJI servo motors enjoy fast dynamic response and stable performances. It has high inertia and large torque, output with strong power.



Laser Cutting Head _ Raytools

- Collimating lens and focal lens adopt compound lens, to obtain the optimal optical quality and the cutting effect.
- Completely sealed internal structure of the laser head can avoid optical parts polluted by dust.

Planetary Gearbox _ Motoreducer

- Excellent Performances, high torsional stiffness, low noise, low backlash.
- Satellite gears are double-supported on hardened and ground shafts with full-complement needle bearings increasing torsional stiffness.



Guide Rail _ HIWIN

- Wear resisting.
- Higher speed and Stable performance.
- Noise volume is lower.
- High accuracy and long service life.

Rack & Pinion System _ YYC

- Ensure the transmission high precision, high speed and high stability.

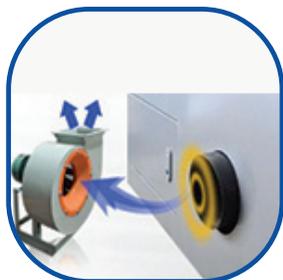


Water Cooling System

- Dual cooling function: laser source cooling; laser head cooling.
- Multiple protection functions, passive alarm terminals and remote control terminals, easy to achieve centralized CNC control and monitoring.

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.



Smoke Exhausting System

- Remove the smoke and dust caused from metal processing.

Electric Components _ France Schneider

- Circuit protection against short-circuit currents, overload currents, breaking and industrial disconnection as per standards IEC/EN 60947-2.





Proportional Valve _ Japan SMC

- Stepless control of air pressure proportional to an electrical signal.
- Serial communications specifications.
- Compact / light weight (Integrated communication parts).

Solenoid Valve _ Taiwan AIRTAC

- Ultra High Pressure Solenoid Valve support up to 3Mpa, fast on-off response speed.

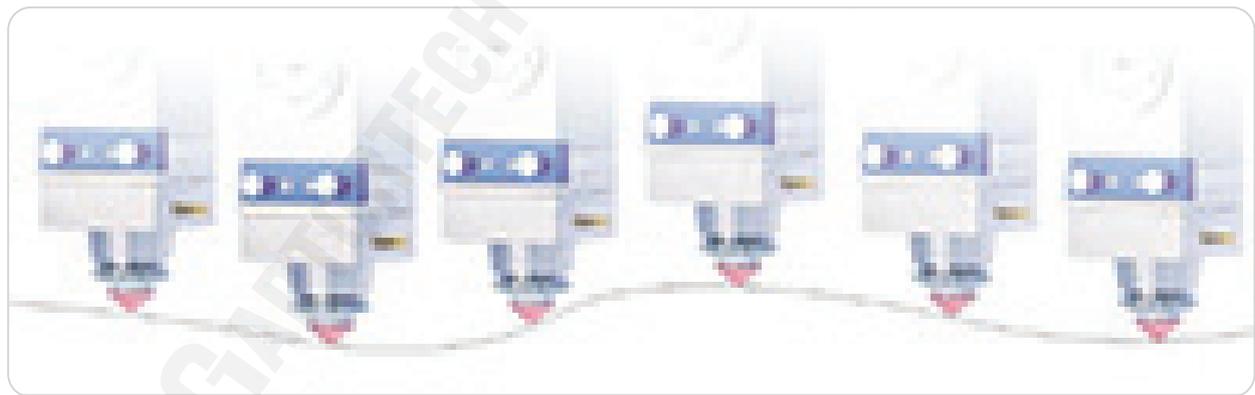


Available Functions

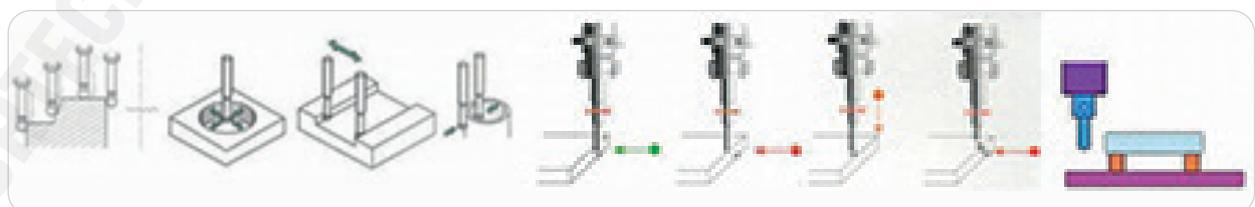
Software:

- Support AI/PLT/Gerber formats, accept Mater 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.
- WIFI remote control panel.

Leapfrog function: highly improve the cutting efficiency.



Photoelectric edge search : fast location and improve processing efficiency.



Power control: allowing corners to be cut with a sharp angle.



Flying cut: especially for thin metal sheet, fast cut of matrix patterns.



Sprint laser piercing: This helps to keep the optics clean and improves the cutting process by pushing vaporized and liquified material out through the kerf, especially for the thick sheet metal.



Cutting Samples



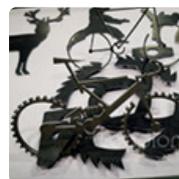
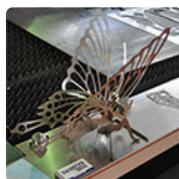
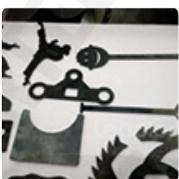
Carbon steel



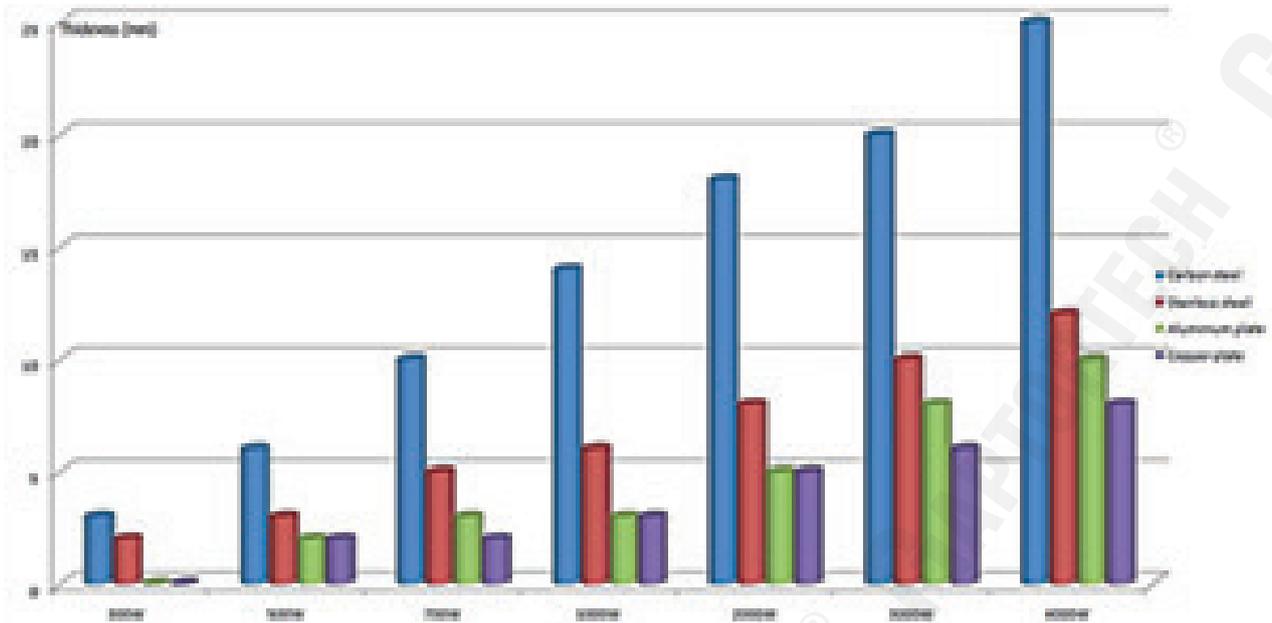
Stainless steel



Aluminum



Cutting Capacity



Documentations

The following documentation is supplied with the machine:

- Copies of the Machine Instruction Manual.
- CE conformity declaration.
- Delivery Protocol.
- Software manual.
- USB driver for backup.
- WIFI instant detecting and fast problem confirming.

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Machine image for reference only, subject to real product.

