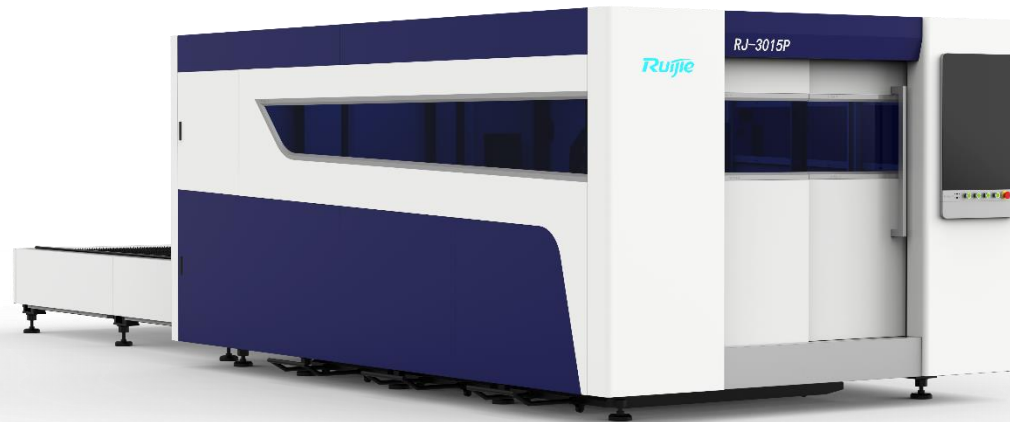


## Fiber laser cutting machine

### RJ-3015P





SHANDONG RUIJIE CNC TECHNOLOGY GROUP CO.,LTD  
Tel: 0086-531-88090777 [www.ruijielaser.com](http://www.ruijielaser.com)

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## 1: About Ruijie Laser

### 1.1 Introduction of Ruijie

Established in 2002, SHANDONG RUIJIE CNC TECHNOLOGY GROUP CO.,LTD is a Hi-Tech enterprise which manufactures laser machines and focuses on Research & Development plus selling of industrial laser products. Located in Jinan Hi-tech Zone, RUIJIE Laser has developed steadily and benefits by the diverse laser and Hi-tech resource in China.

Ruijie has established modern factories which covers over 55,000sqm, and established service agent in India, South Africa and Russia. Ruijie products have been exported to more than 90 different countries and regions.



## 1.2 Certificates

### >>CERTIFICATION



Ruijie laser has been verified as China High Tech Enterprise and with ISO certificate, and been identified as Golden supplier and Audited supplier by different certification authorities. Ruijie laser products have obtained CE, FDA, SGS certificates and etc.. Machines are highly approved and recommended by different customers all over the world.



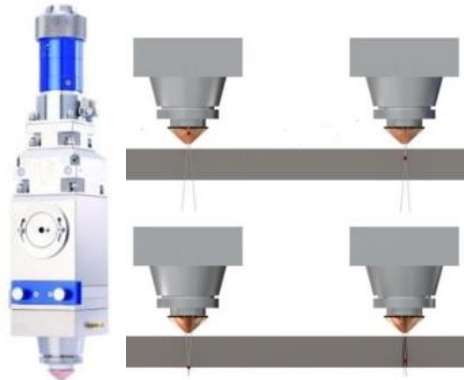





## 2. Configuration of the machine



<b>Model</b>	<b>RJ-3015P</b>
Fiber Laser source	IPG
Laser Head	Raytools
Transmission system	Dual-drive, precise rack and pinion
Guide rail	Taiwan HIWIN/ABBA
Rack&pinion	Taiwan YYC/APEX
Speed Reducer	Japan SHIMPO
Servo motor	Japan FUJI
Water chiller	China S&A / HANLI
Control System	Cypcut
Solenoid valve	AIRTAC from Taiwan
Auxiliary Parts	Exhaust Fan
Electronics	France Schneider
Computer	Industrial Computer
Working area (L*W)	3000×1500mm
X-axis running area	1500mm
Y-axis running area	3000mm
Z-axis running area	100mm
X/Y axis Repeated Position Precision	±0.03mm

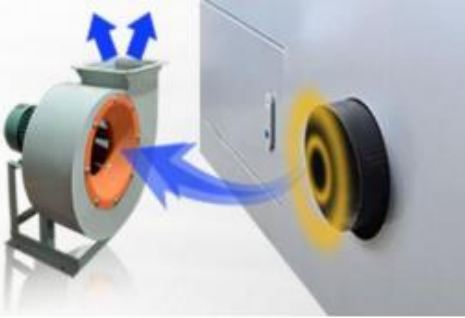





Machine gross weight	3.5T
Voltage	Triphase 380V 50Hz/ 60Hz

	<p><b>Laser source -- Raycus</b></p> <ol style="list-style-type: none"> <li>1. Direct control of all the fiber laser functions; Synchronized control of the laser source;</li> <li>2. High speed perforation</li> <li>3. Cutting data library;</li> <li>4. More than 100,000 hours work-life of pumped diode,almost free maintenance.</li> </ol>		<p><b>Servo Motors and drivers --FUJI</b></p> <p>The YASKAWA servo motors enjoy fast dynamic response and performances stably. It has high inertia and large torque, output with strong power.</p>
	<p><b>Laser Cutting Head -- RAYTOOLS</b></p> <ol style="list-style-type: none"> <li>1. Collimating lens and focal lens adopt compound lens, to obtain the optimal optical quality and the cutting effect.</li> <li>2. Completely sealed internal structure of laser head can avoid optical part polluted by dust.</li> </ol>		<p><b>Planetary Gearbox --SHIMPO</b></p> <ol style="list-style-type: none"> <li>1. Excellent Performances, high torsional stiffness,low noise, low backlash.</li> <li>2. Satellite gears are double-supported on hardened and ground shafts with full-complement needle bearings increasing torsional stiffness.</li> </ol>

	<p><b>Guide Rail -- HIWIN</b></p> <ol style="list-style-type: none"><li>1. Wear resisting</li><li>2. Higher speed and Stable performance</li><li>3. Noise volume is lower</li><li>4. High accuracy and long service life</li></ol>		<p><b>Rack &amp; Pinion System -- YYC</b></p> <p>Ensure the transmission high precision, high speed and high stable.</p>
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	<p><b>Water Cooling System</b></p> <ol style="list-style-type: none"><li>1. Dual cooling function: laser source cooling; laser head cooling;</li><li>2. Multiple protection functions, passive alarm terminals and remote control terminals, easy to achieve centralized CNC control and monitoring.</li></ol>		<p><b>Automatic lubrication:</b></p> <p>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.</p>
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	<p><b>Smoke Exhausting System</b></p> <p>Remove the smoke and dust caused from metal processing</p>		<p><b>Electric Components - France Schneider</b></p> <p>Circuit protection against short-circuit currents, overload currents, breaking and industrial disconnection as per standards IEC/EN 60947-2.</p>
	<p><b>Proportional Valve - SMC OPTIONAL</b></p> <ol style="list-style-type: none"> <li>1. Stepless control of air pressure proportional to an electrical signal.</li> <li>2. Serial communications specifications.</li> <li>3. Compact/lightweight (Integrated communication parts).</li> </ol>		<p><b>Solenoid Valve -- Taiwan AIRTAC</b></p> <p>Ultra High Pressure Solenoid Valve support up to 3Mpa, fast on-off response speed.</p>



**Noiseless Lightweight Casting Aluminum Gantry**

It is manufactured by heavy-duty die casting and formed by 4300 tons press extrusion molding.

**High Performance Plate welding Lathe Bed**

Adopting integrated design idea with heavy carbon mechanism bed, stress removal annealing treatment, gantry milling machining center finishing, with high stability, high cutting accuracy, long time running without deformation.





### Transmission and Precision

RJ fiber laser cutting machine is equipped with Taiwan industrial level HIWIN rail and YYC rack, Japanese servo motors and flange output planetary reducer, guaranteeing the machine with robust performance and long lifetime more than 10 years.

Taiwan HIWIN rail

Taiwan YYC rack

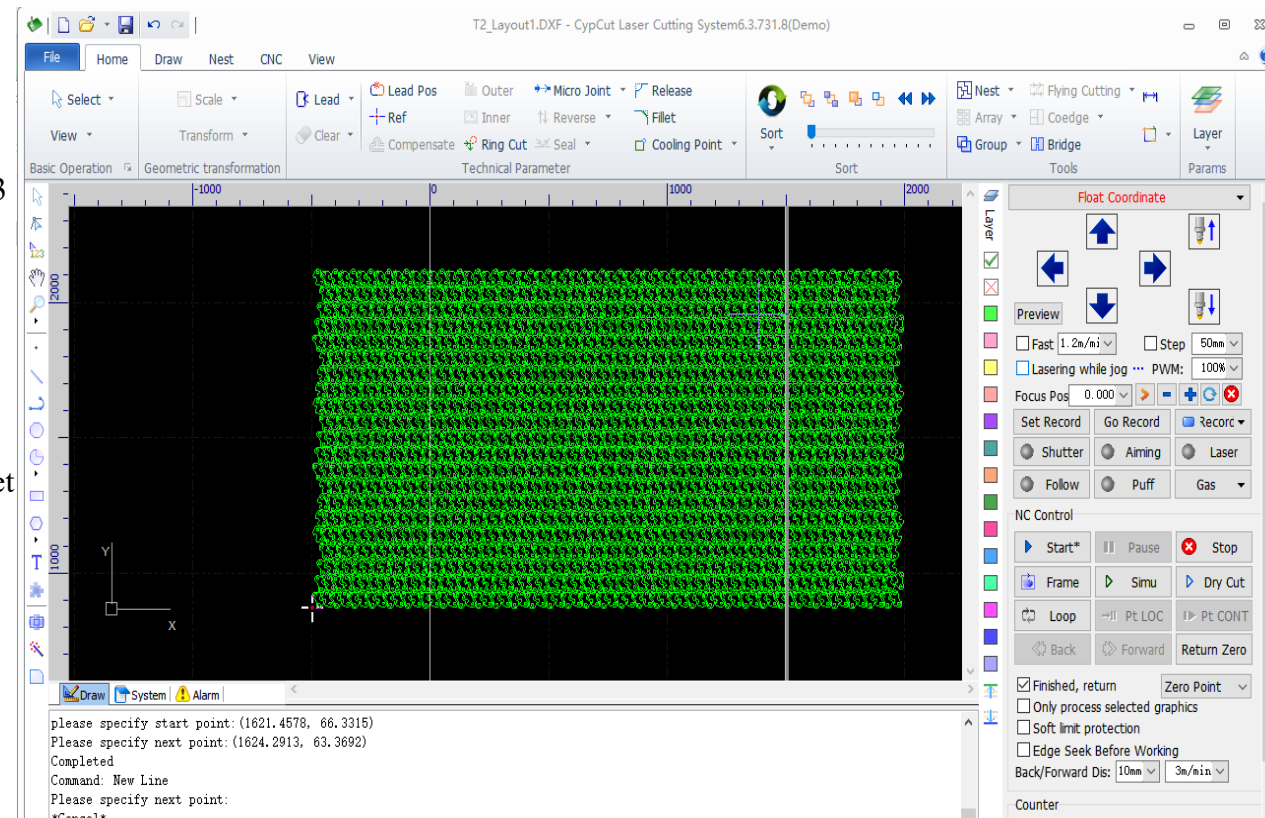
Japanese servo motors/drivers and flange output planetary reducer



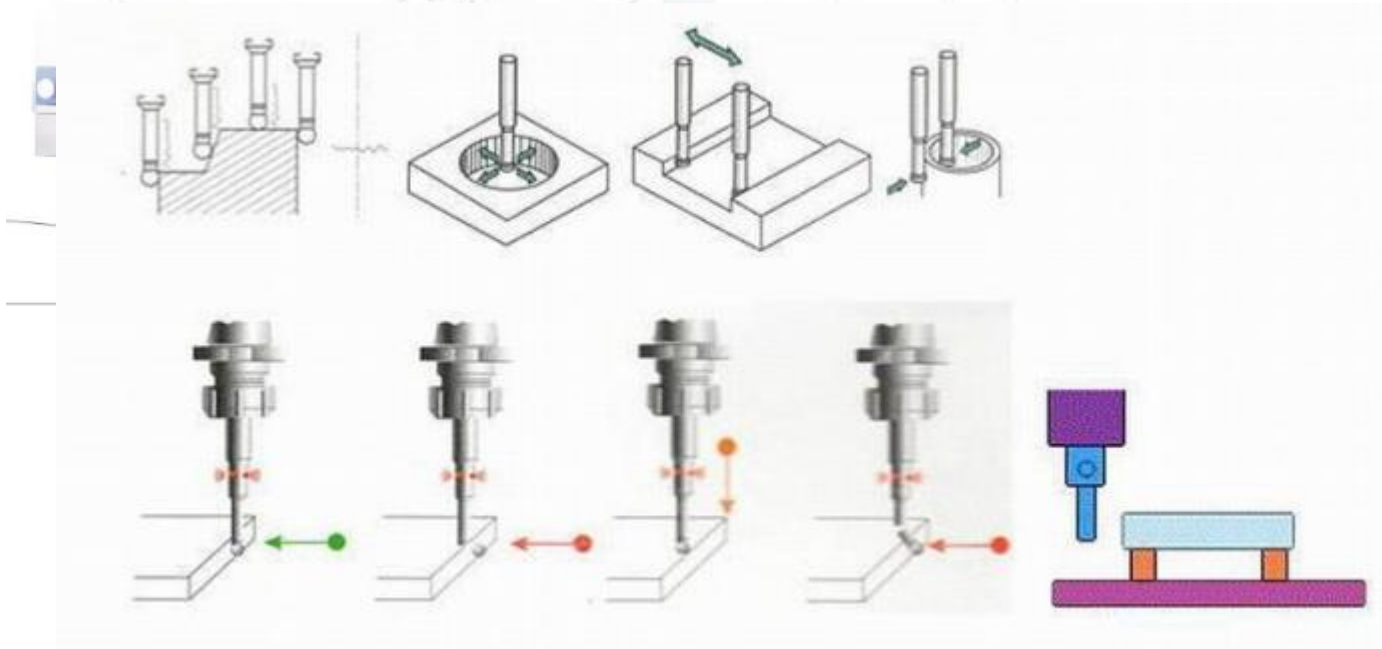
### 3. Available Functions

#### ● Software

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



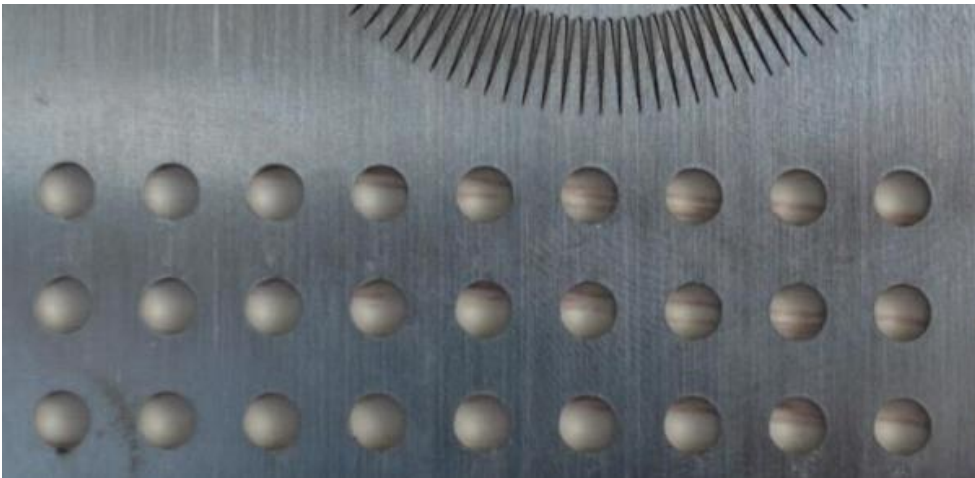
- **Leapfrog function:** highly improve the cutting efficiency.
- **Photoelectric edge search :** fast location and improve processing efficiency



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



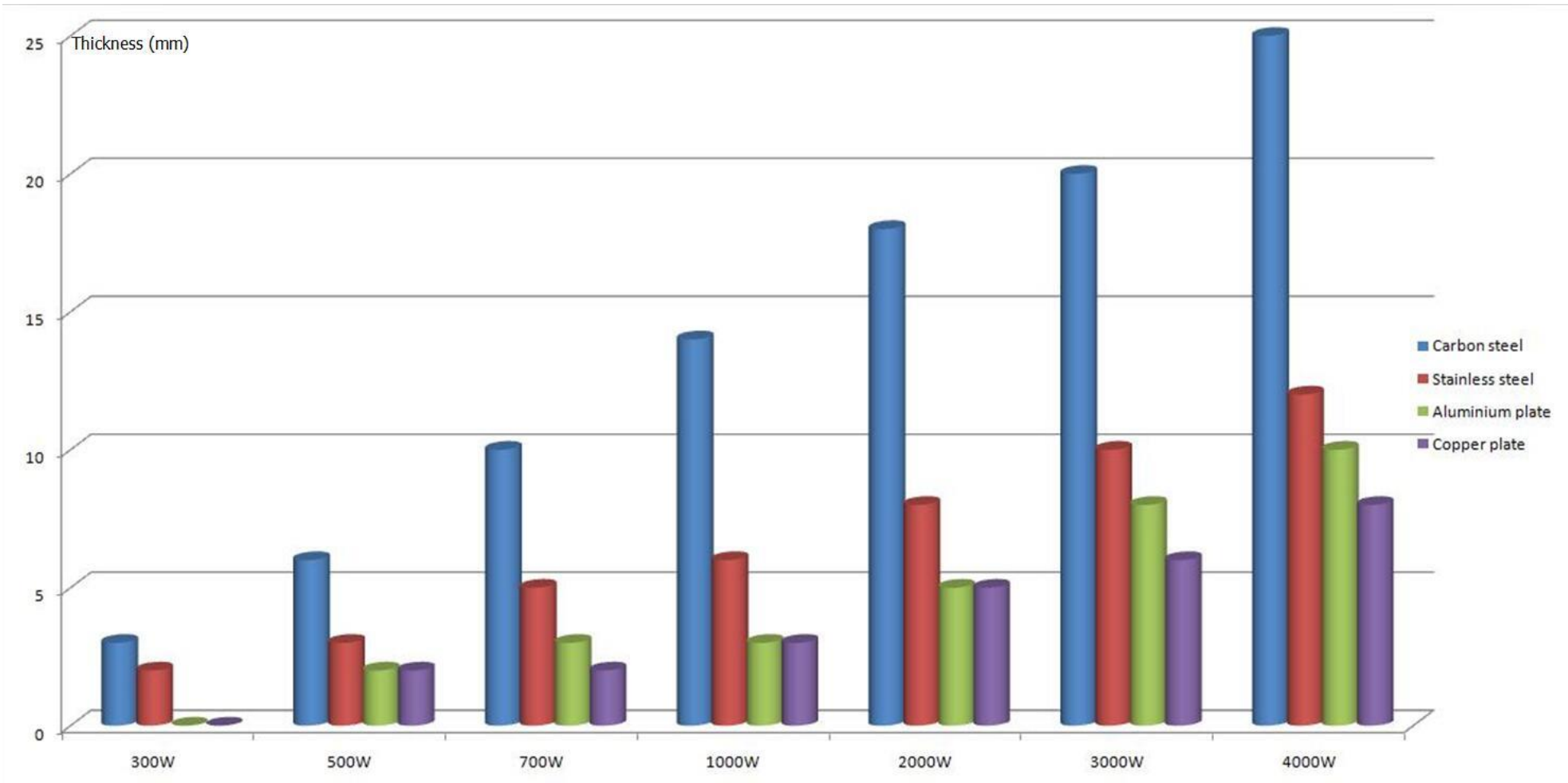
- **Flying cut:** especially for thin metal sheet, fast cut of matrix patterns



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



### 4. Cutting Capacity



### 5. Cutting Samples





**6. Package and shipping**



## Packaging and Shipping



1. Wrap all the machine bed with plastic film.



2. Wooden box sealing



3. Important spare parts in fumigated wooden case



5. Transportation



4. container loading

## 7. Technical Support and After-sales service

### 7.1 DOCUMENTATION

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.

### 7.2 TRAINING

Based on the contract, we delivery laser machine to customers place safely within the specified time, and send engineer to install at user place. Under the basic conditions of installation machine, engineer will complete the installation and commissioning machine within 1-2 days for the user, and ensure neat, clean and orderly. We provide technical training. After the installation and commissioning completed, engineer will service buyer operator at least 5 days at buyer place or at seller factory until the operator can operate machine. The training as follows:

- Training operating instruction of turning on and off machine;
- Meaning of panel and control parameters,
- Training parameter selection range;
- Training control software operation ;
- Basic maintenance and cleaning of the machine;
- Dealing with common hardware problem;
- Noted question in operating ;
- In addition to, we also provide users technical support related their producing products.

### 7.3 After-sale services

To provide customers with all aspects of service. We guarantee:

1. 2 years warranty of machine.
2. Feedback within 12 hours with solutions for every problem.
3. Machine lifetime maintenance services though warranty expires.
4. Wide range of hardware and software support after the warranty expires, enjoy free upgrades.



#### Contact us on:

Catherine

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