**Dual Use and Cost-saving**

3015GR fiber laser cutting machine can not only cut metal plates, but also metal pipes. It has many uses and can save the space of more than 50%, which effectively improves productivity.

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**The Third Generation Aviation Aluminum Beam**

1st generation steel beam

\[ \text{Low speed} \times 2 \]

2nd generation cast aluminum

Lower strength

Sand hole

3rd generation aviation aluminum beam

It is manufactured with aerospace standards and formed by 4300 tons press extrusion molding. After aging treatment, its strength can reach 6061 T6 which is the strongest strength of all beams. Aviation aluminum has many advantages, such as good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.
Clamp Design
It adopts an electric clamp design on both sides which can modulate the center automatically. The designed adjustable range is 200-2032 mm.

Exchanging Platform
It adopts up and down exchange platform, and the controller is responsible for controlling the exchanging motor. The exchange error of the platform can be controlled within ±10μm.

Fractional Automatic Support Installation
It employs intelligent tube support design, which can solve the deformation problem on the process of thin-walled cutting.

The Segmented Rectangular Tube Welded Bed
The internal structure of the bed adopts the rectangular tube welded structure, which is loaded by a section of rectangular tubes, and then the arc is arranged inside the tubes to increase the strength and tensile strength of the bed. It also increases the resistance and stability of the guide rail so as to effectively avoid the deformation of the bed.
- High strength, stability, tensile strength, ensuring 20 years of use without deformation.
- Thickness of rectangular pipe wall ≥ 0.5mm and weight ≥400kg.

Without Manual Operation, It can Focus Automatically
- Without manual focusing, the software automatically adjusts the focusing lens to realize automatic focusing and cutting of plates of different thicknesses. The speed of automatically adjusting to focus is ten times of the manual adjusting.
- Bigger adjustment range
  - Adjustable range: -100mm ~ +100mm, precision 0.01mm, suitable for 0~20mm different types of plates.
- Long service life
  - Collaborated with the focus lens: both have water-cooling flange side which reduces the temperature of the focusing head to improve the life of the focusing head.
Drive and Accuracy

German Tech Quality

© G-WEIKE fiber laser cutting machine is equipped with German Atlanta rack, Japanese Yaskawa motor and German Neugart reducer. The positioning accuracy of the machine tool can be 0.02mm and the cutting acceleration is 1.5G. The scaling life is up to 10 years.

Technical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Model</td>
<td>LF3015/508</td>
</tr>
<tr>
<td>Laser Power</td>
<td>1000W 2000W 3000W 4000W 6000W (Optional)</td>
</tr>
<tr>
<td>Dimension</td>
<td>7800<em>3580</em>2150mm</td>
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<tr>
<td>Working Size</td>
<td>3050mm * 1050mm</td>
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<tr>
<td>Repeated Positioning Precision</td>
<td>±0.02mm</td>
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<tr>
<td>Max Running Speed</td>
<td>120mm/minutes</td>
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<tr>
<td>Max Acceleration</td>
<td>1.5G</td>
</tr>
<tr>
<td>Voltage and Frequency</td>
<td>380V 50Hz</td>
</tr>
</tbody>
</table>

Industry Applications

Widely used in the processing of metal tube structure, advertising board, spring roll sleeve, textile machinery parts, kitchen utensils, car machinery, elevator, H/I beams electrical equipment production, electric parts, subway line spare parts, etc.

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