The Third Generation Aviation Aluminum Beam

It is manufactured with aerospace standards and formed by 6300 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.

Safety and No Pollution

- With a fully enclosed design.
- The observation window adopts an European CE standard laser protective glass.
- The smoke produced by cutting can be filtered inside, it's non-polluting and environmentally friendly.
Dual Rail and Dual Driver Design
To prevent the cutting line deformation caused by the Y-axis screw bending, the Y-axis on both sides have been equipped two rails guide and double ball drive screw design to ensure the straightness and accuracy degree when with high-speed cutting in operation.

Without Manual Operation, It Can Focus Automatically
- **Without manual focusing**
  The software automatically adjusts the focus distance to realize automatic focusing and cutting without human intervention. The speed of automatically adjusting focus is ten times of the manual adjusting.

- **Bigger adjustment range**
  Adjustment range: 10 mm → 150mm, precision: 0.01mm, suitable for 0 ~ 20mm different types of plates.

- **Long service life**
  Colletor lens and focusing lens both have water-cooling heat sinks which reduces the temperature of the cutting head to improve the life of the cutting head.

Transmission and Precision
G WEIKE fiber laser cutting machine is equipped with Japanese Panasonic servo motor, imported TBI dual drive grinding screw for Y axis, imported TBI grinding ball screw for X axis and Hikin guide rail, the positioning accuracy of the machine tool can be ±0.006mm and the cutting accelerations 0.5G. The working life is more than 10 years.

Japanese Panasonic servo motor

TBI grinding ball screw

Hikin guide rail

Technical Parameters

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<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Machine Model</td>
<td>LT0640</td>
</tr>
<tr>
<td>Laser Power</td>
<td>500W / 700W / 1000W (optional)</td>
</tr>
<tr>
<td>Working Area</td>
<td>600mm x 400mm</td>
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<tr>
<td>Repeat Positioning Accuracy</td>
<td>±0.006mm</td>
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<tr>
<td>Maximum Speed</td>
<td>40m/min</td>
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<tr>
<td>Maximum Acceleration</td>
<td>0.5G</td>
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<tr>
<td>Transmission Mode</td>
<td>Grinding precision screw drive</td>
</tr>
<tr>
<td>Power Supply Rated Voltage and Frequency</td>
<td>220V / 50Hz / 60Hz / 380A</td>
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Industry Applications

LF0640 is specially designed for high precision cutting. It is widely used in machinery, microelectronics, glasses, electronics and other industries, which has high requirements on the cutting accuracy.

JINAN G.WEIKE SCIENCE & TECHNOLOGY CO., LTD

In hi Tech square High-Tech Zone, Jinan, Shandong, China

E-mail: wkcutt@163.com
Hotline: 400-061-521
Fax: +86-0531-88912386