

## Metal Pipe Laser Cutting Machine in Advertising Letters Cutting

### Product Introductions



### 2.1 Advantage of Fiber Laser Cutting Machine

Compare of different laser sources

Model of Laser Source	Fiber	CO2	Disc
Electro-optical Conversion Efficiency	30%	10%	15%
Max. Output	50Kw	20Kw	8Kw
BPP (4/5Kw)	<2.5	6	8
Life of Diode Pumped	> 100,000	NA.	10,000
Occupied Area (4/5Kw)	< 1M <sup>2</sup>	3M <sup>2</sup>	> 4M <sup>2</sup>
Maintenance	no need	need	Often
Soft Processing	more suitable	unsuitable	suitable
Stability	best	good	good
Absorption rate%--steel	35	12	35
Absorption rate%--aluminum	7	2	7
Replaced Parts	High brightness semiconductor laser broadband single core, more than 100,000 hours of pump. Damage to one of the semiconductor does not affect the normal work of the laser, but less and less power, because each semiconductor pump sources are used to separate each other.	Laser work requires gas supplement, reflection lens replacement.	Semiconductor Bar (array) maximum pulse model 5000 hours or 10000 hours continuous mode. Laser use the pump sources are used in the process of often need to change, each time change need to be between \$200,000-230,000.

## 2.2IPG Fiber Laser Source

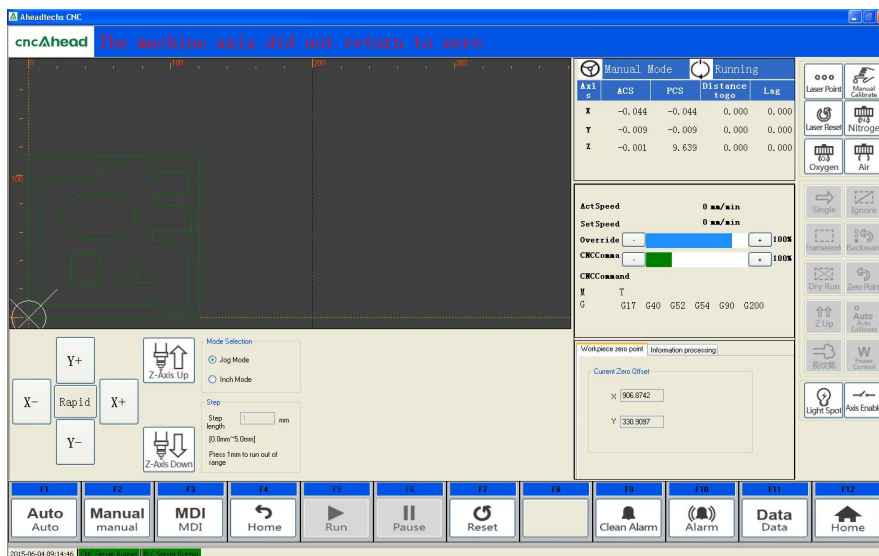
We adopts the world's highest level IPG fiber laser source, stable performance, assured safety of the whole product quality.



IPG clean scene

Specifications of CF3015-2000	
Operation mode	CW,QCW
Center wavelength of radiation	1070-1080 Nm
Standard output	2000 W
Beam quality	4 mm*mrad
Adjusting speed	5 kHz
Fiber Diameter	≥50 μm
Output stability(long-time)	±2 %
Power	400-460 VAC
power dissipation	8 kW
Max. Power dissipation of cooling water	0.4 M3/h
Size (W*D*H)	850×800×1190mm
Weight	350 Kg

## 2.3 CNC Software:



PC control, special cutting software for CNC laser cutting machine, high speed DSP movement control chip, ensure motion accuracy. We have added many new function in the software:

- 1 Automatic edge finding function, no need to use two point positioning manually.
- 2 Kerf compensation function.
- 3 Quickly import large files, enhance your working efficient.
- 4 Breakpoints resume.
- 5 When long line with short line overlap, it will automatically remove short one.

## 2.4 Cutting Materials

It is used to cut the metal materials, such as stainless steel, carbon steel, alloy steel, silicon steel, spring steel, galvanize plate, pickled plate, copper plate, aluminum plate, etc.

## 2.5 Application Industry

Widely used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, tube fittings, automobile, food machinery, engineering machinery, precision parts, ships, metallurgical equipment, elevators, household appliances, kitchen utensils and appliances, craft gifts, tool processing, decoration, advertising and other manufacturing industries.

### Samples



1mm stainless steel



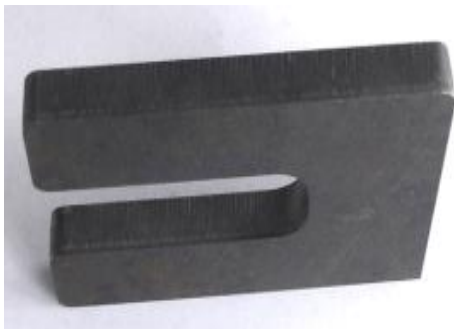
3.5mm stainless steel



5mm carbon steel



5mm stainless



10mm carbon  
steel



10mm stainless steel