

GS-LFTP6015 Laser Cutter for Sheet & Tube

Product Introductions



2.1 Advantage of Fiber Laser Cutting Machine

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 ²	3M ²	>4M ²
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	Laser work re quires gas supplement, reflection lens	Semiconductor Bar (array) maximum pulse model 5000 hours or 10000 hours

	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.	replacement.	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.
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2.2 Machine Bed



Gantry design with double rack and guide, double drive with servo motor; Integral cast aluminum crossbeam of high performance.

Welding type machine frame with manual aging treatment; the machine bed is precision processed by gantry type milling machine to ensure the resistance to shock, rigidity and stability.

The crossbeam made of high intensity aluminum has the feature of light weight, high rigidity and good accelerating ability; precise process by gantry type milling machine after aging treatment to ensure the movement precision.

The aging treatment during the welding to remove welding stress in order to prevent the structure deformation.

HIWIN square linear guide from Taiwan with high position precision, less wear; high precision for long service time, easy installation and replacement.

IPG Fiber Laser Source

Main technical data:

Laser source	Fiber laser source 500W/1000W
Working medium	Doped fiber mirror
Output	500W/1000W
Rated input voltage	380V±10%
Power consumption	<5KW
Light beam quality BPP	≥3.5mm*mrad
Max cutting thickness	12mm carbon steel, 8mm SS, 4mm Aluminum board
Min kerf width	0.1 mm
Stability of laser power	±1%
Continuous working time	24 hours
Optical route	Fiber transfer

2.3 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.

2.4 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



2mm carbon steel tube cutting



1mm brass tube cutting