

GS-LFDS3015 Laser Cutter Machine

Product Introductions



GS-LFDS3015 Exchangeable Working Table Fiber Laser Cutter (double drive)

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 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 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.
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2.2 PG 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

High Strength Whole Welding Cutting Bed



4.3.1 Our gantry-type flying optical path structure working table has been annealed to relieve internal stress strictly, thus significantly improves the rigidity and stability of the CNC laser cutter.

4.3.2 The working table have been handled with high temperature annealing and large CNC gantry milling machine precision processing, can maintain long-term stability and shock resistance, and ensure the precision of the CNC laser cutter.

4.3.3 One piece casting aerometal girder with light weight has good dynamic performance. Machining after tempering ensures the integrity, rigidity and stability of the girder.

4.3.4 Pneumatic cylinder, convenient to loading materials; pneumatic clamp, assure the located accuracy.

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



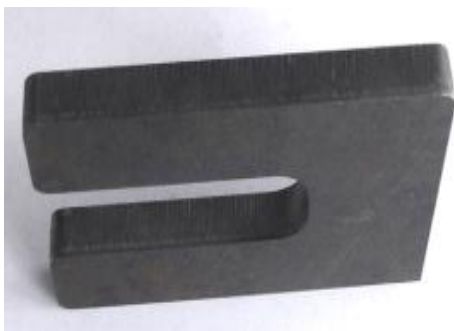
3.5mm stainless steel



5mm carbon steel



5mm stainless



10mm carbon steel



10mm stainless steel