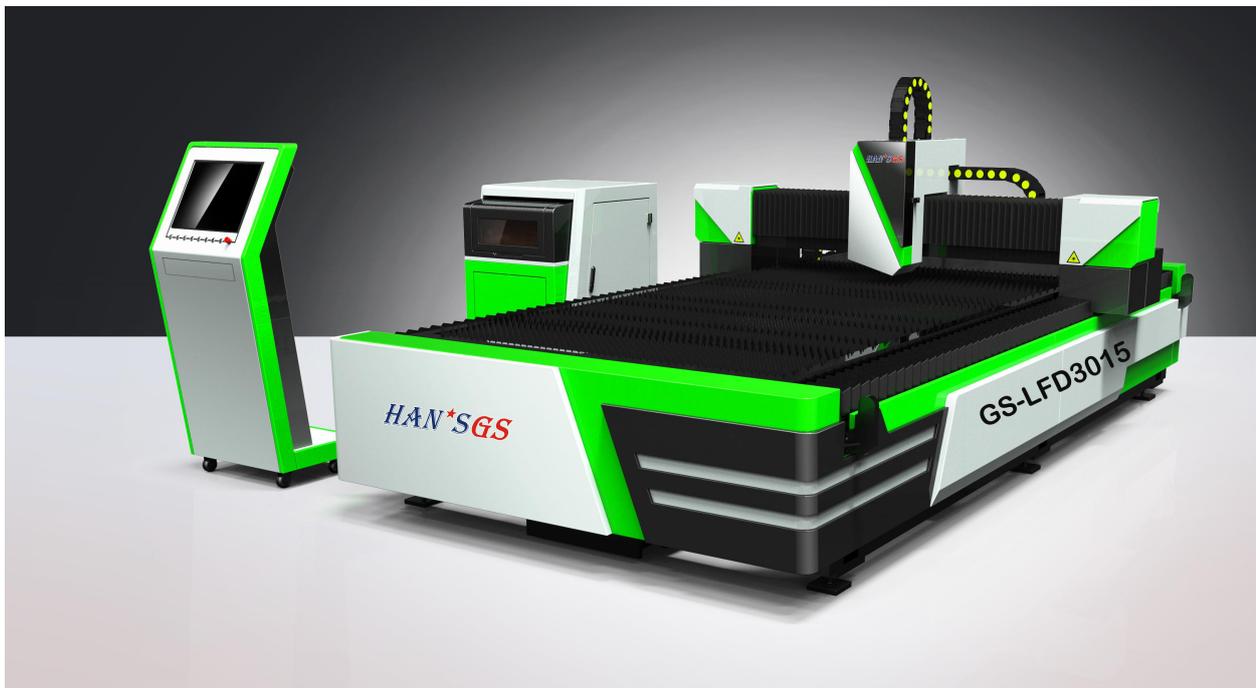


New GS-LFD3015 Metal Laser Cutting Machine

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 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 External Cooling Water Circulation System with deionizater, filter, constant temperature control to avoid frequent change of the cooling water.



- 4.10.1 The inside chassis use cold reduced sheet with baking finish. Split design with low noise and compact structure
- 4.10.2 The compressor of the cooling system, expansion valve, pressure controller and other control device are all international famous brand to ensure the good quality of the machine and long term reliability.
- 4.10.3 The water pump, water tank and coupling of the water circulation system are all made of stainless steel 304 material, no worry about the corrosion
- 4.10.4 The water tank and the outlet are all equipped with filter and deion device to ensure the water electric conductivity.
- 4.10.5 The water chiller has the function of noise & light alarm in case of high & low temperature, water flow, water pressure, water level and water quality.
- 4.10.6 The system use electricity for heating, PLC control with ± 0.3 control precision.

2.3 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.

2.4 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



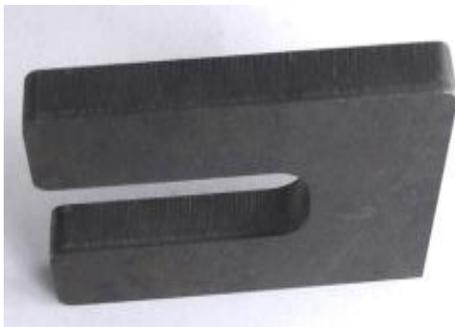
3.5mm stainless steel



5mm carbon steel



5mm stainless



10mm carbon steel



10mm stainless steel