

# HDE Series

# Technical Data



Since 2004

17 Years of Laser Equipment Production Experience

# CONTENTS

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03	About Baisheng Laser
04	Product Overview
05	Technical Configuration
06	Technical Parameter
07	Cutting Sample & Application
08	Cost Analysis
09	Main Configuration
11	Assembly Inspection
12	After-Sales Service
13	Cooperated Partners
14	Honor & Certificate

# About Baisheng Laser

Foshan Huibaisheng Laser Technology Co., Ltd. (Baisheng Laser), founded in 2004, is a high-tech enterprise integrating laser, precision machinery, numerical control, software development and modern management, specializing in the R & D, production and sales of large and medium power laser equipment.

Since establishment, Baisheng Laser has developed rapidly. As one of the few laser cutting machine manufacturers in China with the ability to independently produce beams, sheet metal and machine tool frames, Baisheng Laser' s Foshan headquarters has a plant area of about 100000 square meters, with 200+ sets of precision machining equipment, 500+ employees, 40+ R & D team and 100+ after-sales engineers.

With strong enterprise strength and strong manufacturing strength, Baisheng Laser has become a leading and world-famous large and medium power laser equipment manufacturer and solution provider in China, and its marketing network covers more than 60 countries and regions around the world.



Our Team



R&D Center



Industry Park



Workshops

# Product Overview

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## Material application:

Stainless steel, carbon steel, alloy steel, spring steel, copper plate, aluminum plate, and other metal sheet cutting.

## Processing methods:

Metal Cutting

## Work size :

3000\*1500mm

## Cutting Thickness:

1-20mm

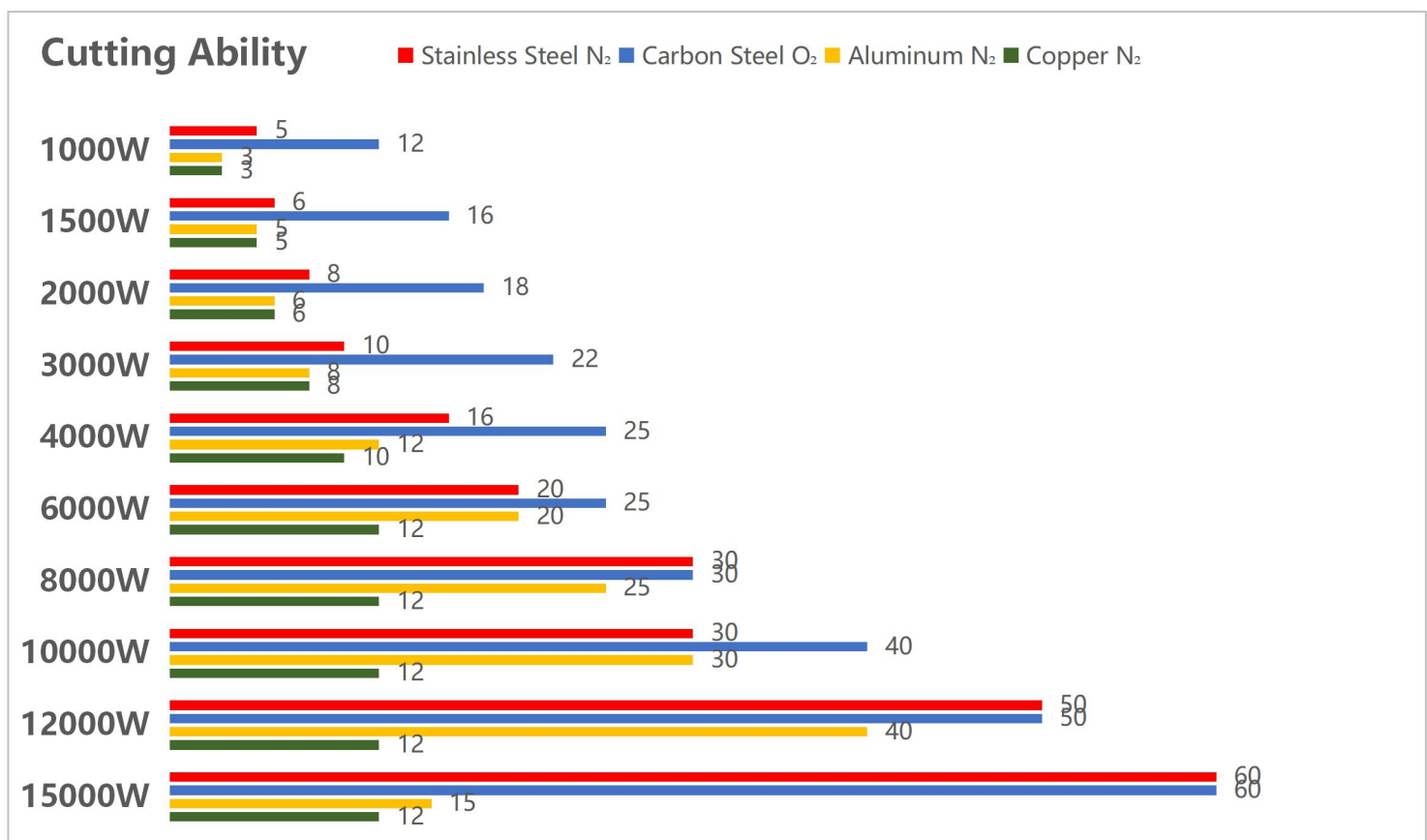
# Technical Configuration

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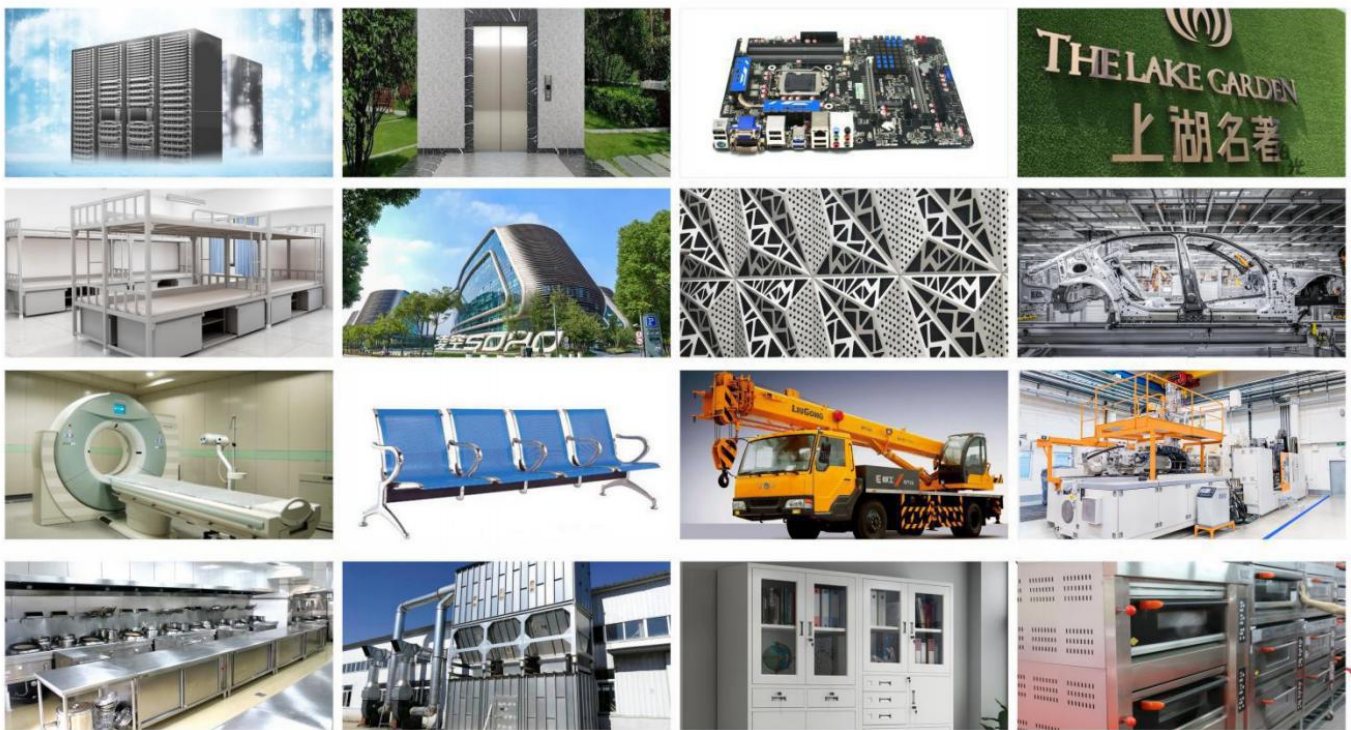
Configuration	Brand	Quantity	Place of Origin
F3015HDE-2000W 3000W	3000mm*1500mm	1	China
Control System	Cypcut	1	China
Fiber Source	Raycus/IPG 2000w 3000W	1	China/Germany
Cutting Head	Raytools/Precitec	1	China / Germany
Servo Motor	Schneider for XY Panasonic for Z	4	France Japan
Gear And Rack	KH/YYC/DEKANI/LEITESEN	3	Taiwan,China
Inlet Pneumatic Proportional Valve	SMC/Aventics	1	Japan / Germany
Speed Reducer	Motoreducer	3	France
Monitor	BSL19.5 inches	1	China
Industrial Control Computer	BSL	1	China
Water Chiller	Hanli / S&A	1	China
Exhaust Fan	BSL 5.5KW 50HZ	1	China
Guide	CSK/PMI/LAPPING/ROUST	4	Taiwan,China/China
Sliding Part	BSL	1	China

# Technical Parameter

Feature/Model	F3015HDE
Laser Power	2000W/3000W
Working Area (L×W)	3000×1500mm
Stroke (X/ Y/ Z Axis)	1500mm/3000mm/100mm
X/Y Axis Repositioning Accuracy	±0.03mm
Max. Moving Speed	100m/min
Max. Acc. Speed	1.0G
Compatible Software	CorelDraw/AutoCAD/AI
Overall Dimensions (L×W×H)	8910*2260*2200mm
Machine Weight	≈6000KG



## Cutting Sample & Application



# Cost Analysis

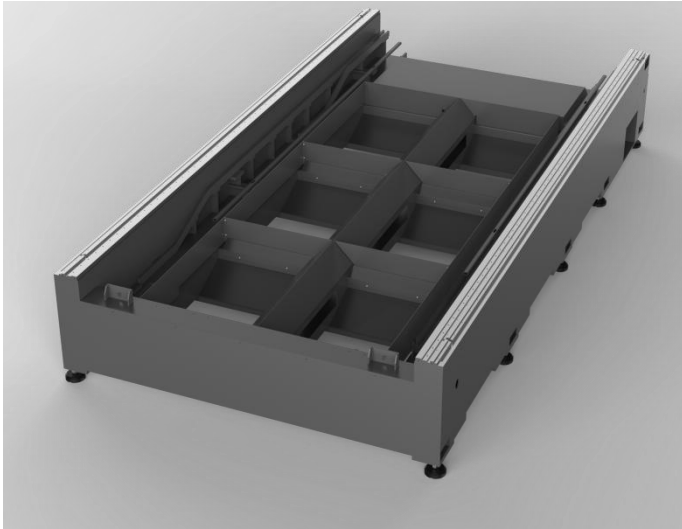
Items		Air	Oxygen	Nitrogen
Power Consumption (Peak Power Consumption)	Laser	12KW	12KW	12KW
	Water Cooling	7.4KW	7.4KW	7.4KW
	Air Compressor	11KW	/	/
	Machine Main frame	10.2KW	10.2KW	10.2KW
	Dust Removal Equipment	5.5KW	5.5KW	5.5KW
Consumable parts		USD 0.10/H	USD 0.10/H	USD 0.10/H
Gas consumption		0	USD2.5/H	USD4.5/H
Total power		46.1KW	35.1KW	35.1KW
Total Power Consumption (75% Actual Power Consumption)		27.7KW	21.1KW	21.1KW
Total operating cost (0.15USD/kwh)		4.16+0.1=4.26 USD/h	3.17+0.1+2.5=5.77 USD/h	3.17+0.1+4.5=7.77 USD/h

Note:

1. The electricity price and gas price in the above list are for reference only. And the prices will be different in different regions.
2. Auxiliary gas consumption varies when cutting plates of other thickness.



# Main Configuration



## << Self-produced welding bed frame

1. Adopt steel plate welding bed frame, with a stable welding process, no internal defects, the minimum degree of spatter and so on. The welded joints are detected by infrared flaw detector.
2. The annealing time is up to 12 hours to remove stress.
3. With strict standard welding and annealing treatment, the bed can be used for about 15 years without deformation.

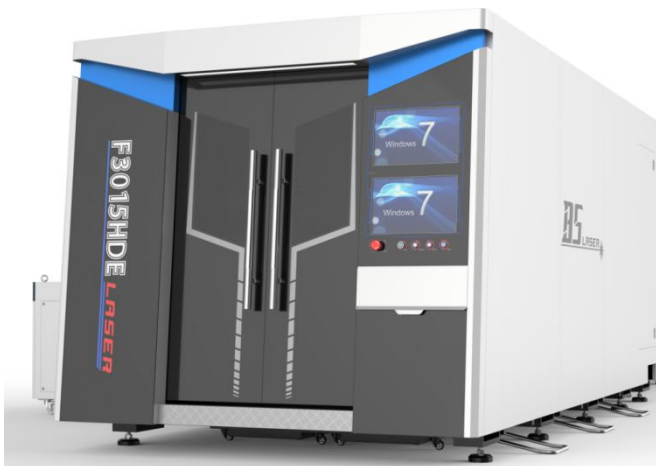


## Cross Beam >>

1. It is aviation grade aluminum beam, lighter in weight but more tough.
2. With the characteristics of high flexibility, it can realize high speed cutting of all kinds of graphics under the condition of satisfying the precision.



# Main Configuration



## << Full cover and auto exchange pallet

1. Baisheng patent technology - climbing exchange platform, remains the same height after the exchange.
2. Automatic exchange metal sheets with two pallets, 10-15 seconds finish exchanging.
3. Full cover with exhausting system on the laser cutting area, it can control dust coming out and

## IPG Laser Source >>

1. Maintenance-free and high reliability.
2. High electro-optical conversion efficiency (up to 25-40%), excellent beam quality, high energy density, and reliability, a wide modulation frequency.
3. 100000 hours of lifetime stability.
4. fine cutting and precision welding.



## << Cutting Head

1. High efficiency cooling
  2. Auto-focusing
  3. High speed cutting
  4. High power rating
- (Precitec / Raytools / WSX are optional)



# Assembly Inspection

1. Inspection before assembly: Check whether the beam machining form and position tolerance is within the design scope to ensure the equipment quality.

Three coordinate inspection of beam: Three coordinate measuring machine (CMM) is a kind of instrument that can calculate all kinds of geometric shapes and dimensions according to the point data returned by the probe system in three-dimensional measurable space. It is also called three-dimensional element.



2. The bed beam collimator detects the guide rail surface - measures the straightness of the guide rail to ensure the accuracy of each equipment.

3. Altimeter test for precision machining parts - check the linear dimension and form and position tolerance required by the drawing of small precision machining parts to ensure that the accuracy of equipment meets the quality of parts and equipment.

4. Swiss altimeter can be used to measure the internal dimension, external dimension, height, depth or distance of plane, parallel plane and cylindrical geometry. At the same time, one-dimensional or two-dimensional measurement can be carried out. Automatically search the vertex of the hole or axis, record the maximum, minimum and the difference between the maximum and minimum in the dynamic detection.

# After-Sales Service

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## After-Sales Service

### PRE-SALE SERVICE

1. Provide technical guidance, equipment solutions and other information services according to your needs.
2. Welcome you to visit our company and equipment exhibition hall. And our engineers will offer the best explanation and demonstration. If you can't come to us, we will do a live broadcast to show you our factory and machine.
3. Provide free proofing service.

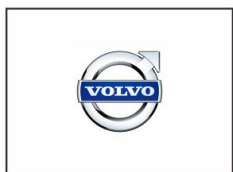
### SELLING SERVICE

1. Technicians would offer field installation, debugging and training when they come to the customer's factory.
2. Ensure the equipment is delivered on time.
3. Train customer operators in strict accordance with the equipment operation process to ensure that they are proficient in the operation, maintenance and safe use of the equipment.

### AFTER-SALE SERVICE

1. One-year warranty for machine bed and free software upgrade. Two-year warranty for laser generators.
2. Except man-made factor, Baisheng Laser provides the repairing service during the warranty period.
3. We will establish communication group including technicians, after-sales managers, salesmen and operators of customers.

# Cooperated Partners



MORE >>

# Honor & Certificate Exhibition



Since its establishment in 2004, Baisheng Laser has been continuously developing high-tech products. With its strong production capacity and R & D capacity, it has obtained more than 40 patent certificates and the honorary title of national high-tech enterprise.

BEST CHOICE FOR NEARLY 10000 USERS WORLDWIDE



Official Website: [www.fhbslaser.com](http://www.fhbslaser.com) [www.bshcnc.com](http://www.bshcnc.com)

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