



## THE LIGHT OF INTELLIGENT MANUFACTURING



### A National Hi-tech Enterprise

HSG Laser, founded in 2006, as a national hi-tech enterprise with an eye to R&D, production and sales of laser equipment, is now mainly dedicated to serve global customers with intelligent metal forming solutions. HSG Laser has applied for nearly 500 patents.



### Serve 100+ Countries and Regions

HSG Laser has 2 wholly-owned subsidiaries in Germany and Japan, 4 standardized manufacturing bases in China and 30+ service outlets overseas. 1600+ workers, incl. 180+ R&D personnel sold 3000+ machines in 2020 by right of 80000m<sup>2</sup> factories and 5000+ annual productivity.



### Professional R&D Team

Our R&D team values high-power machines and key spare parts. Until now, they have developed industry-leading 3D five-axis cutting, P20 ultra-high-power intelligent laser cutting head, intelligent digital four chucks, Alpha T bus system and HSG-XMT multi-touch operating system.



### Laser Cutting Machines of a Great Variety

HSG Laser can serve global users with 20+ kinds of machines that are suitable for most materials needing to be cut, including sheet metal laser cutting machine, sheet & tube laser cutting machine, tube metal laser cutting machine, bending machine and welding machine.

# HSG

Headquarters Add.: No. 8, Zhujiang Avenue, Bijiang Industrial Zone,  
Beijiao Town, Shunde District, Foshan, China  
Website: [www.hsglaser.com](http://www.hsglaser.com)  
Email: [info@hsglaser.com](mailto:info@hsglaser.com)  
Tel: +86 757-66833906

# HSG



## GC III

■ SHEET METAL LASER CUTTING MACHINE ■

[www.hsglaser.com](http://www.hsglaser.com)

## COMPANY



OUR  
HEADQUARTERS



SUZHOU  
SUBSIDIARY



GERMAN  
SUBSIDIARY



JINAN  
SUBSIDIARY



JAPANESE  
SUBSIDIARY





# GC III Series

Compact-size Single Platform Laser Cutting Machine 1500-4000W

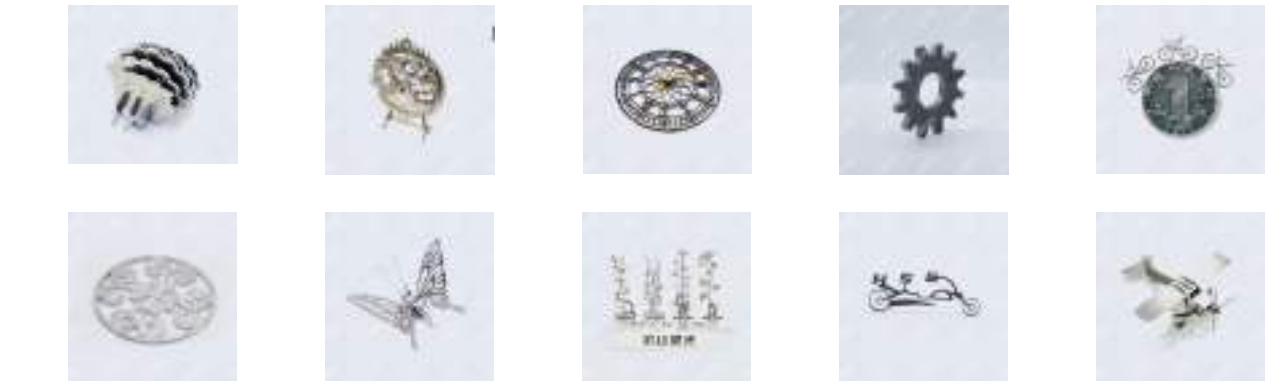


## Technical Parameters

Technical Parameter	GC III
Power	1500-4000W
Processing Format (L*W)	3000*1500mm/4000*1500mm/4000*2000mm/6000*2000mm
X/Y-axis Positioning Accuracy	±0.03mm/m
X/Y-axis Repositioning Accuracy	±0.03mm
Max. No-load Speed	140m/min
Max. Acceleration	1.2G
Max. Loading of Platform	700kg/1050kg/1400kg/2000kg
Overall Dimensions (L*W*H)	4900*2250*1700mm/5560*2250*1700mm/6015*3300*1700mm/ 8300*3300*1700mm

\* The larger processing format, 6000mm\*2500mm and 8000mm\*2500mm are also recommended.

## Cutting Samples



## EXTREMELY SIMPLE DESIGN, SMALL SIZE

GC III is as little design as possible. It is open-style and has single platform. Materials can be loaded or unloaded from the front, left and right side. G3015C is only 5186mm\*2227mm (L\*W), equaling to a large SUV and can be put easily in a relatively small workshop. Only one day is taken to get started for new users.



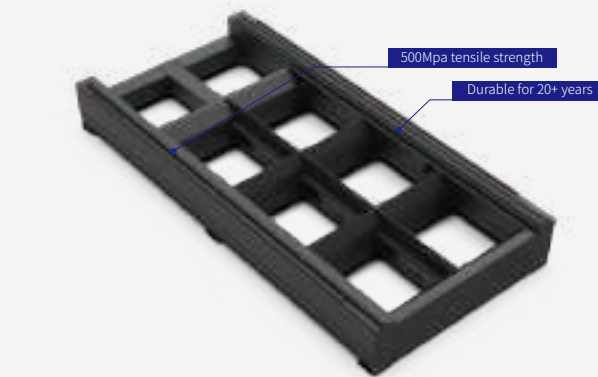
## INTELLIGENT CONTROL SYSTEM, 21.5 INCH TOUCH SCREEN

Through our self-developed operating control system, users can take control of all production tasks. That is, production will be clear at a glance. 21.5 inch touch screen is simple in UI design, with no need for keyboard or mouse. High-efficient production will start only by moving a finger. Its built-in integrated nesting software is good at cost reduction and benefit increase.



## REMARKABLE ACCELERATING PERFORMANCE

Thanks to its dual high-powered servo motors (max. rotating speed 3750r/min) and light-weight extruded aviation aluminum beam, GC III improves its max. no-load speed and acceleration to 140m/min and 1.2G from 100m/min and 1.0G (2<sup>nd</sup> generation). Only 3.2s (to be measured) will be taken to accelerate to 100m/min. With it, you will always stay ahead of your peers by minimizing machining duration and increasing productivity.



## HIGH-QUALITY CARBON STEEL WELDED MACHINE BED

The machine bed is made of high-quality carbon steel of which tensile strength is 500Mpa and welding stress is eliminated by high annealing and natural aging. After that, it will be anti-deformation, more durable and keep high precision and stability for over 20 years.



## THE 4TH GENERATION EXTRUDED AVIATION ALUMINUM BEAM

The light-weight 6 series aviation aluminum alloy is used due to its good dynamic performance. Our beam is designed as honeycomb anti-compression structure and made by using extrusion molding process, hence, high strength but no air or sand hole.



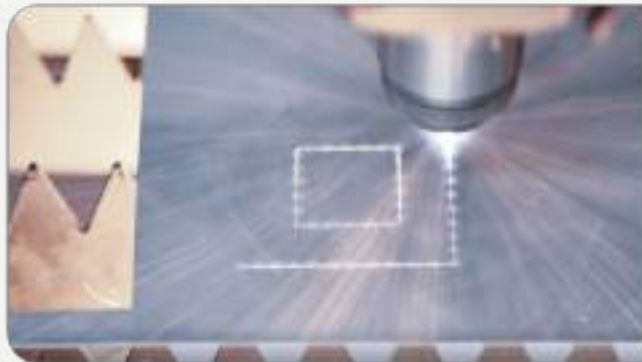
## AUTOFOCUS LASER CUTTING HEAD

Its focus is adjustable and precise. The laser cutting head can feel the surroundings and lift up to keep away from obstacles automatically. In other words, our cutting head is anti-collision.

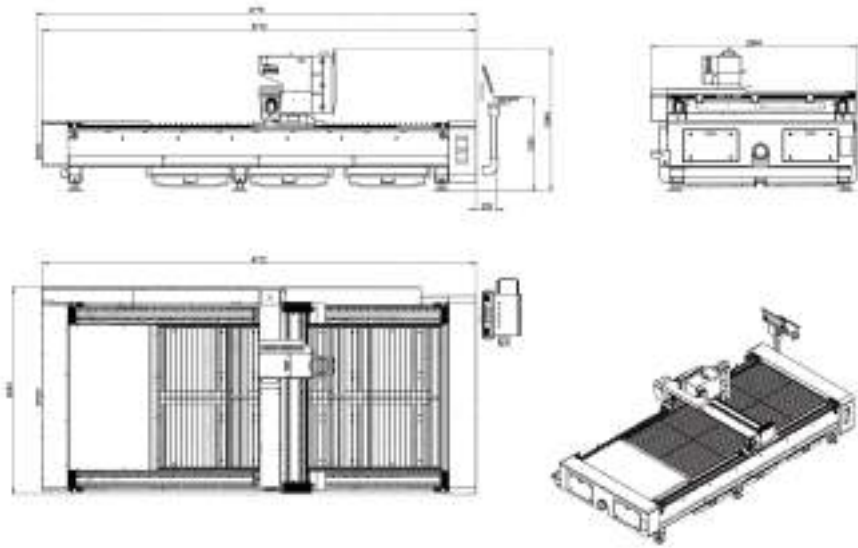


## WORK HARD AT CUTTING SPEED AND QUALITY

The new ultra-high-speed scanning & cutting creates ultra-high precision. The machining error is only 0.1mm. Micron-grade hyperfine cutting is realized by our precise laser energy controlling technology. The flying cutting micro-connection can prevent sheet upward and balance cutting speed and stability well. With GC III, users can enjoy bright surface cutting, which means that cross section is smooth and almost slagless with no need for further polishing.



## Machine Foundation



## Core Accessories



German Alpha/STOBER:  
speed reducer (incl. gear wheels)

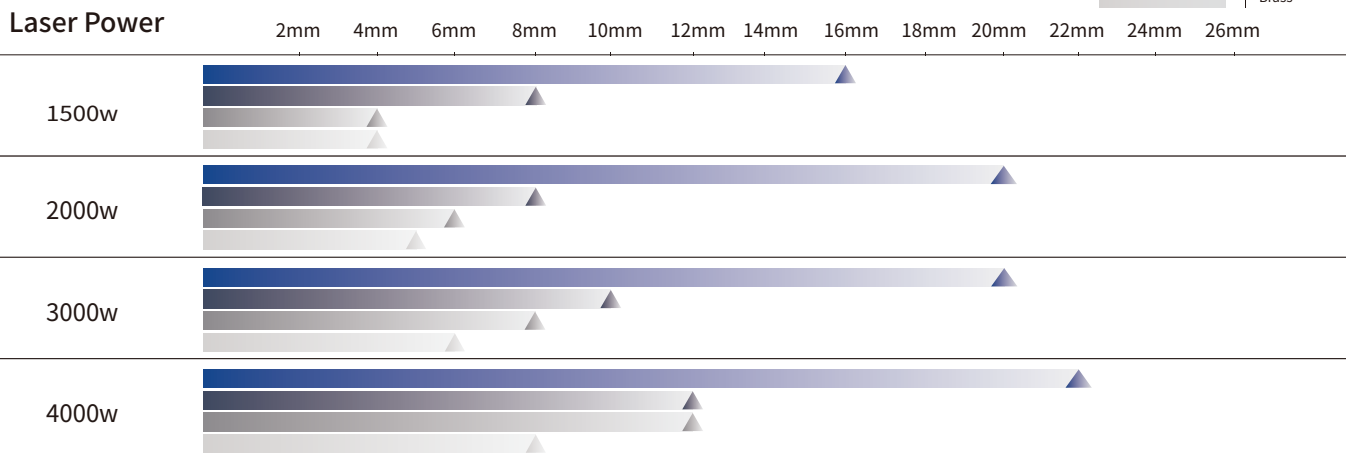


Lanny  
SMC  
Aventics  
SMC/Aventics: gas circuit control  
Schneider: electrical control



YYC  
Inovance  
YYC: high-precision racks  
Inovance: high-speed servo motor and drive

## Cutting Capacity



Version No.: 2021.6.23  
The actual machines shall prevail and above data & pictures are only for reference.