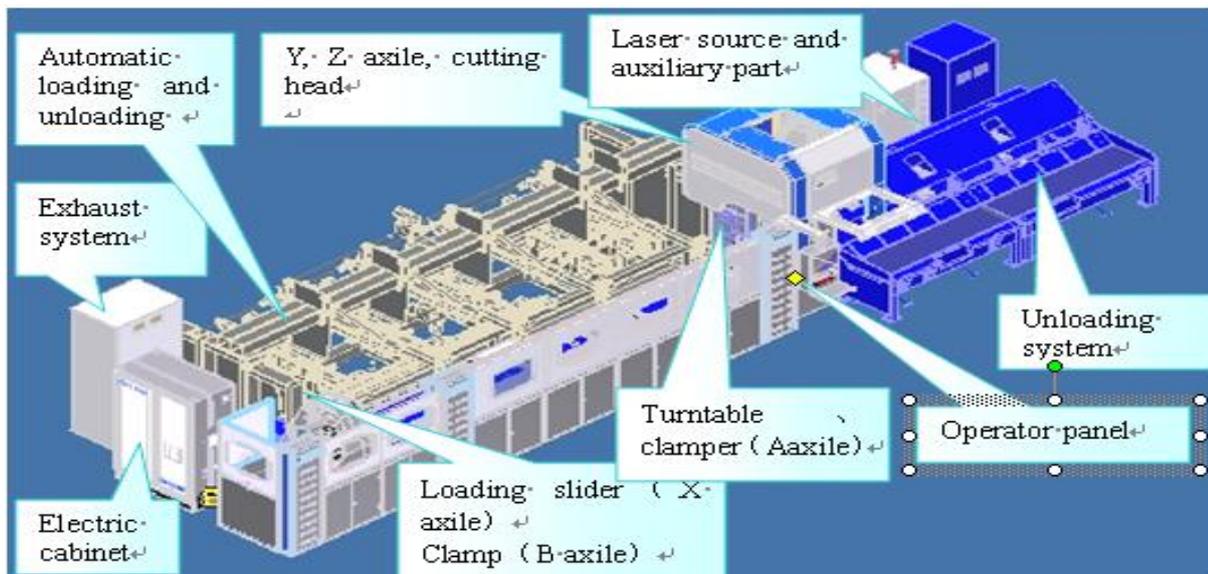


## GS-LFTC-60-1000W Tube laser cutting machine

### Product Introductions



GS-LFTC60 laser cutter is equipped with IPG laser generator as well as other efficient drive mechanism such as high precision gear rack, imported high precision linear guide rail, etc., and assembled through the advanced imported CNC system. It is a hi-tech product integrating laser cutting, precision machinery, CNC technology, etc. mainly used to cut and form carbon steel sheets, stainless steel sheets, aluminum alloys, composite materials, etc., with the features of high speed, high precision, high efficiency, high price performance ratio, etc. It is the first choice cutter model in the metallic material processing industry.

Features Gantry-type CNC tube Laser Cutter:

1. **Gantry-type Flying Optical Path Structure.** The machine bed adopts the gantry-type structure, is annealed to relieve internal stress, roughly machined to disable the vibration, and then finished,

thus significantly improves the rigidity and stability of the CNC laser cutter which can maintain long-term, good stability and shock resistance and ensure the precision of the CNC laser cutter.

2. **The girder** is one piece casting of aerometal, with light weight and good dynamic performance; machining after tempering ensures the integrity, rigidity and stability of the girder.

### **Advanced Control Function:**

#### **1. Sheet material surface height tracking control (follow-up function):**

The Z axle allows sheet material surface height tracking control to adapt to different evenness of sheet materials. The function is integrated in the CNC system, and provides quicker response, better sensitivity and higher servo precision compared to conventional CNC system.

#### **2. Laser power ramp control:**

During acceleration and deceleration of the CNC laser cutter, PA8000 CNC system can adjust the laser power ramp according to the real time speed of the CNC laser cutter to ensure consistent quality of processing section. The function is also integrated in the CNC system, and provides quicker response and better instantaneity compared to conventional CNC system.

#### **3. Self-adaptive feed forward “ART” regulation technology:**

The self-adaptive feed forward “ART” regulation technology allows the PA8000 CNC system to make self-adaptive regulation during motion control on real time basis. The CNC laser cutter position control closed loop can reach the optimal gain and the best rigidity. The “zerolag” feature of “ART” regulation technology makes the CNC laser cutter has the minimum servo lag error and the highest position servo accuracy.

#### **4. Rollback function:**

If the laser cutting stops due to failure, the machine can cut the work piece previously being cut again after returning along the outline path of the work piece to prevent scraping the work piece.

#### **5. Breakpoint return function:**

If the laser cutting stops due to failure, the X, Y and Z motion axles can be moved; the cutting nozzle is repaired or replaced; the machine is returned to the breakpoint and restarted to begin cutting to prevent scraping the work piece.

## **CNC System**



The CNC system is mainly composed of PC control system, drive, servo motor, etc.

Han's Laser uses the CNC system produced by PA (Germany). PA8000 represents the most professional laser processing CNC system. The compact, modular PA8000 Series CNC meets the users' requirement for high performance CNC system with its good price performance ratio.

## **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



## After-Sale Service

Our after-sale network is all over the world which will provide the comprehensive after-sale service to our customer.

Our commitment is as follow:

One year guarantee for the whole equipment.

We will answer your questions within 24hours.

When Equipment warranty expires, lifelong maintenance services will be provided.

After the expiry of the warranty we will offer a wide range of software support with free upgrade for lifelong .