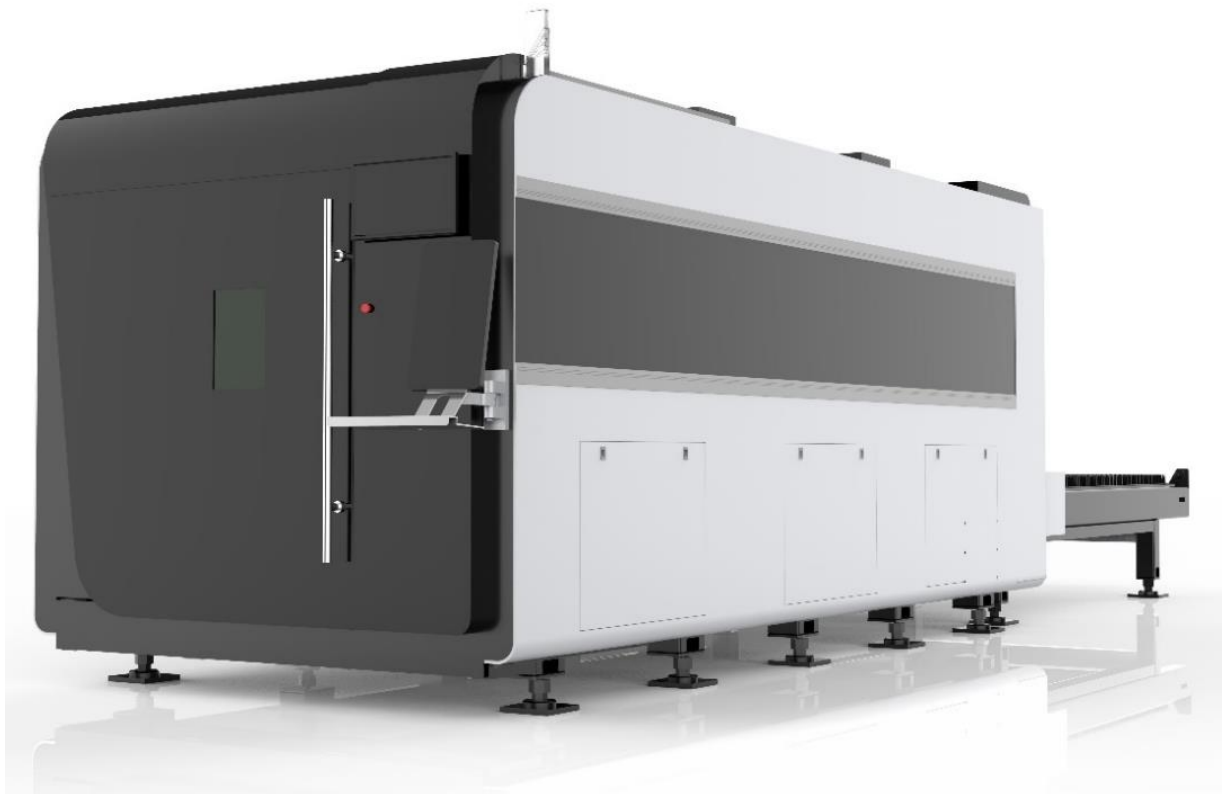


# G WEIKE – CNC FIBER LASER

## SHEET PROFILE CUTTER

### LF3015GA II - 3000 MM X 1500 MM CUTTING TABLE



**ALUMINUM - STAINLESS STEEL – MILD STEEL – COPPER - BRASS**

April 24

## G Weike LF3015GA II - Fiber Laser

- Manufactured with aerospace standards third generation aviation aluminum gantry.
- High strength, stability, and tensile strength, ensuring use without distortion, thanks to the segmented rectangular tube welded bed.
- Exchange platform: The exchange platform is a loading & unloading platform which saves feed time and improves productivity.
- Fully enclosed safety design ensures safety and no smoke.
- Transmission and precision achieved using a German Atlanta rack, Japanese Yaskawa motor, and German Neugart reducer gear unit.
- Integrated Controls at rear of main cabinet
- The CNC system controller ensures high productivity and simple operation.
- Positive pressure system for dust extraction

### FEATURES:

#### Third Generation Aviation Aluminum Gantry

- Manufactured with aerospace standards and formed by 4300 tons press extrusion moulding.
- After aging treatment, its strength can reach 6061 T6 which is the highest strength among all gantries.
- Some of the benefits of Aviation aluminium include.
  - High Strength
  - Light Weight
  - Corrosion Resistance



#### Segmented Rectangular Tube Welded Bed



- The internal bed structure adopts the aircraft metal honeycomb structure, which is welded by a number of rectangular tubes
- Stiffeners are arranged inside the tubes to increase the strength of the bed, it also increases the stability of the guide rails so as to effectively avoid the deformation of the bed
- High strength, stability, tensile strength, ensuring 20 years of use without distortion
- Thickness of rectangular pipe wall is 10mm and weighs 4500 kg

## Exchange Platform

- The Exchange Platform acts as a loading & unloading platform which saves feed time and improves productivity
- The platform exchange is completed within 15s



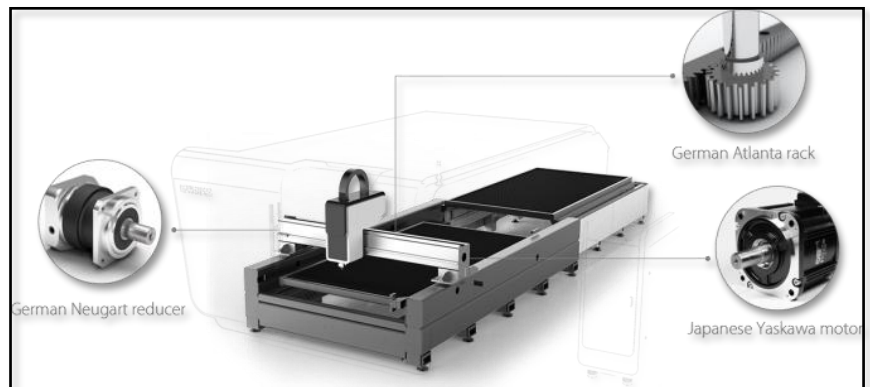
## Safety and No Smoke

- With a **fully enclosed safety design**
- The watch window adopts a European CE Standard laser protective glass
- The smoke produced by cutting can be filtrated inside. Hence, a non-polluting and environmentally friendly design is achieved.



## Transmission and Precision

- Fiber laser cutting machine is equipped with German Atlanta rack, Japanese Yaskawa motor and German Neugart reducer gear unit
- The positioning accuracy of the machine tool is 0.02mm
- The cutting acceleration is 1.5G



## Integrated Control Cabinet

- All electrical components are built-in to the control cabinet at the rear of the machine with easy access and a dust-proof design to prolong the lifespan of the electrical components

## CNC Operating System & PC nesting software

- The CNC system integrates high productivity and simple operation.
- Supports most of the CNC files.
- In-built drawing and nesting tools for simple and quick jobs
- Different cutting strategies can be applied to the nest.
- **Cypcut** comes installed.
- **CypNEST** for PC nesting is included.



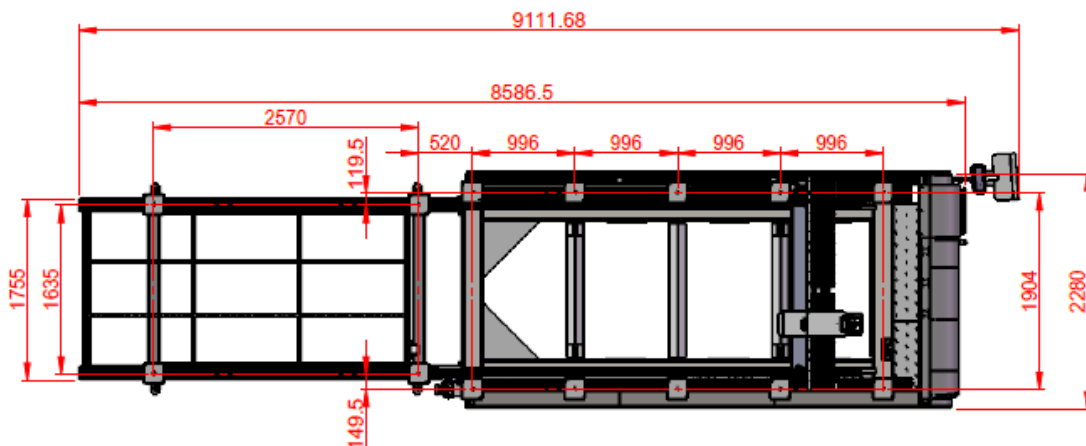
## Raytool BM110 series head



- an automatic focusing fiber cutting head launched by Swiss RAYTOOLS AG in 2017. The product has a built-in motor drive unit, and the linear mechanism drives the focus lens to automatically change the position within 22mm. The user can set the continuous focus through the program to complete the rapid perforation of thick plates and automatically cut plates of different thicknesses and materials.
- The product is equipped with a D30 compound lens group to integrate the beam and optimizes the optical and water-cooling design so that the laser head can work continuously and stably for a long time under high power.

## Layout \_ floor plan

The addition items of power regulator and water cooler are linked to the control section at the rear of the main cutting cabinet. PPT mounts these into a utility rack



## IPG or Raycus power source

Power source can be selected to application and range from 1 KW to 20KW. The power source size with have a related water chiller with a change of controller from 1.5 to 2.5G for units 8 KW and greater.

IPG power sources are suggested where large volumes aluminium and copper, with there respective high reflective indexes, are to be processed.

	Normal materials (SS, CS)	Highly reflective materials (copper, aluminum, gold...)	Cost of maintenance
Raycus	Good	Not recommend	Low
IPG	Good	Good	High

Contact us for more information on power source options.

## Cutting with air v's nitrogen \_ 16 bar \_ optional

Thinner sheet **stainless** and **aluminium** material will cut using higher pressure compressed air.



The resulting cut edge has less shine than when cut with concentrated nitrogen gas.

The cost saving is considerable.

Higher 30 bar pressure can be provided via the DHH1230 piston unit which comes with drier and filters.

DEHAHA® DHH Screw Compressor	
Fiber laser cutting machine power	1000W-6000W
Corresponding air compressor power	15kw/20hp
Model	DBZY20A
Capacity(m3/min)	1.41
Capacity(cfm)	53
Working pressure(bar)	16
Max working pressure(bar)	16
Brand of screw air end	Dynamisch
Bearings brand	SKF
Motor power(kw)	15
Voltage/Hertz(V/HZ)	380/50 or customized
Protection level	IP54
Efficiency grade	IE3
Controller	Touch screen PLC
Driven method	Belt
Cooling way	by air
Discharge temperature (°C)	≤ ambient +8
Noise dB(A)	≤ 65
Air outlet size	G3/4"
Dimension L*W*H(mm)	1882*790*1731
Weight (kg)	572
Air dryer capacity(m3/min)	2
Air tank volume(liters)	500
Water/air separator(pcs)	1
Line filter (pcs)	4
Particle content(µm)	0.01µm
Oil content (ppm)	0.001ppm
Pressure dew point(°C)	2-8 °C



## TOPSINN DUST COLLECTOR EXHAUST SYSTEM TODC-4L

The dust collector operates in conjunction with fiber laser ceiling air intake fans to provide a dust extraction system. PPT can customize the dust collector to be manual or auto start.



Dust removal comes from a tray – trolley located below the unit that can be lined with a plastic bag.

Connection to the fiber laser outlet is via flexible ducting.

### 4L Product Parameters

MODEL	TODC-4L
Filter cartridge material	HV/Ahlstrom/TORAY, F9
No. of Filter cartridges	4
Air volume	3200m <sup>3</sup> /h
Air pressure	3000
Filtration efficiency	99.99%
Filtering area	82M <sup>2</sup>
Entrifugal fan	5.5KW SIEMENS
Collector capacity	45L
Power requirments	THREE-PHASE FIVE-WIRE, 380V
compreseed air required	0.6MP, compressed air without oil and water
Unit weight	700KG
Outline Dimension(mm)	A: 2198, B: 1348, C: 1060, D: 303

### Supply, Installation, training, and ongoing support.

Assembled and shipped to order from Jinan in a 40' container.

NZ. Assembly is minimized and can occur at your premises with minimal disruption by the PPT and GWeike team.

Operational run up and parameter adjustments are undertaken to align with your material and cutting requirements.

**Ongoing support comes from WIFI.** WIFI allows connection from PPT and or GWeike to investigate and make any required parameter adjustments.

**Parts support.** PPT carries a range of Raytools cutting head consumables along with Focus and Collimation lens units. Check with PPT about extend support available.

### Warranty & Support

The IPG or Raycus power unit comes with a 2 or 3 year warranty at source. Check with PPT what warranty & support provides.

### Pricing

Pricing can be provided once fiber laser power and brand is established. Freight, travel, and accommodation that will relate to the location of installation.

To watch the Video

Click on the link below or scan the QR code below:

[LF3015GA II](#)



QR code

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2. Hold your device steady for 2-3 seconds towards the **QR Code**
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