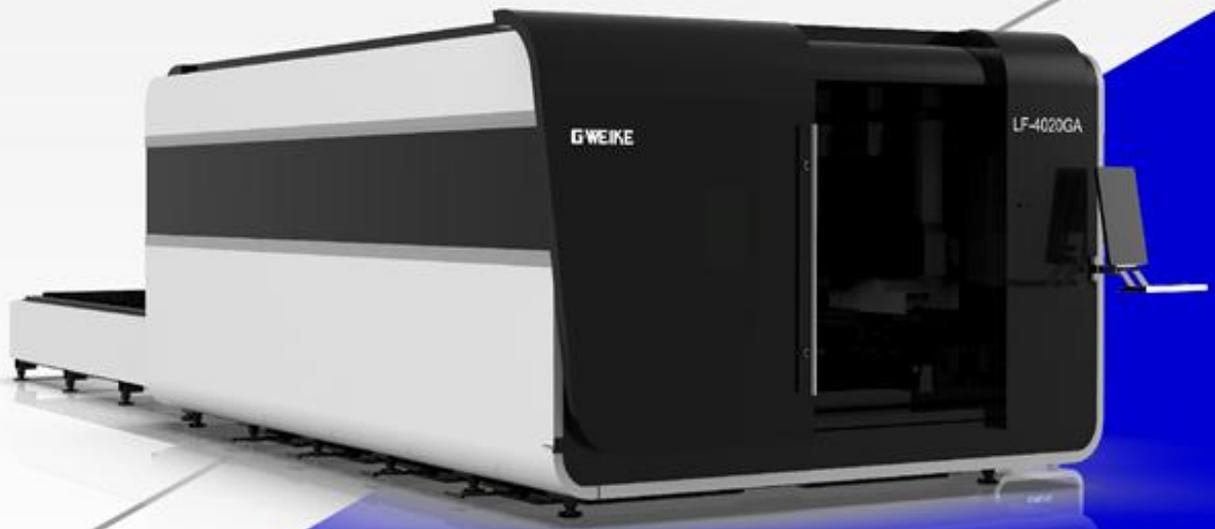


# G WEIKE – CNC FIBER LASER Sheet Profile Cutter



## 4020GA

4000 × 2000 mm cutting table

Fully enclosed

Auto exchange table for load/unload

6000W laser (standard) - 12000W option available.

September 2025

## PRODUCT OVERVIEW

**Power Options:** The 4020GA fiber laser sheet cutting machine comes standard with a 6000W laser power source, with an optional upgrade to 12000W for increased cutting speed and the ability to handle thicker materials. Cutting capacity as below for various materials.

Laser Power	Mild Steel (mm)	Stainless Steel (mm)	Aluminium (mm)
6 kW	25	20	16
12 kW	36	30	25

**Cutting Sheet Size:** The cutting table is designed to accommodate mild steel, stainless steel and aluminum sheets over 3600mm in length (max 4000mm), with a load-bearing capacity of up to 1100kg.

**Compatible Materials:** Capable of cutting a wide range of metals, including stainless steel, carbon steel, aluminum alloy, titanium alloy, galvanized steel, copper, and more.

**File Compatibility:** Supports direct conversion of .dxf files into cutting instructions via integrated software.

**Operator Support & Training:** Comprehensive, multi-level operator support and training programs are provided to ensure efficient and safe machine operation.

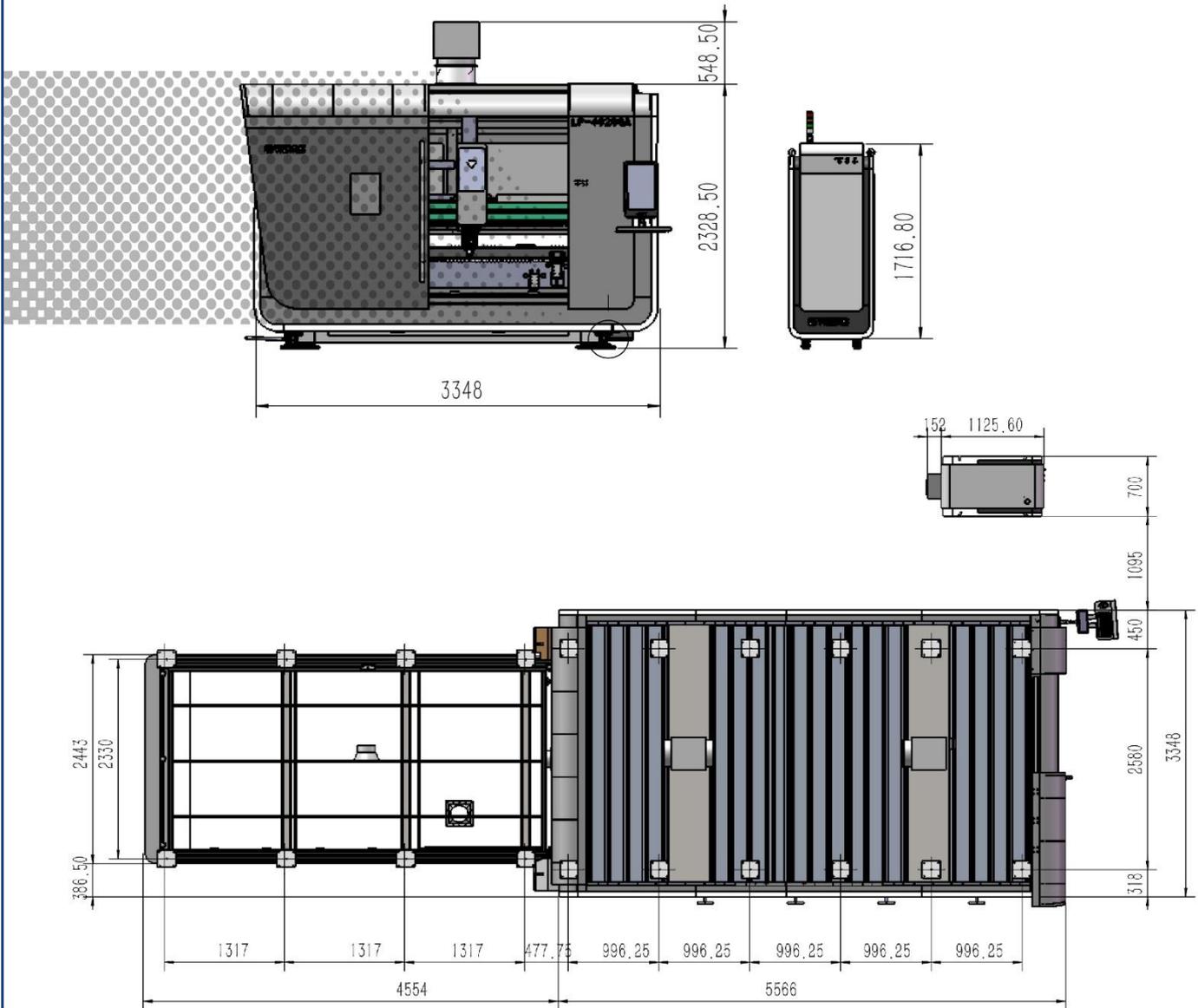
**Additional Equipment & Support:** Includes access to auxiliary systems such as dust extraction, high-pressure compressed air, consumables, and full-service support—available ex-PPT with 24/7 technical backup from G Weike.

## ADVANTAGE

- Fully enclosed for safety: radiation, light, and dust control
- Heavy-duty sheet handling capability
- CE-certified for safety and quality
- High-precision 90° cutting
- Remote support via Wi-Fi

**Machine Floor Plan:**

— LF4020GA —



## TECHNICAL PARAMETERS

<b>Model</b>	<b>LF4020GA</b>
<b>Maximum processing range</b>	<b>2000x4000mm</b>
<b>X-axis travel</b>	<b>2000mm</b>
<b>Y-axis travel</b>	<b>4000mm</b>
<b>Z-axis travel</b>	<b>340mm</b>
<b>X / Y axis positioning accuracy</b>	<b>±0.03mm</b>
<b>X / Y axis repeat positioning accuracy</b>	<b>±0.02mm</b>
<b>X / Y axis maximum moving speed</b>	<b>100m/min</b>
<b>X / Y maximum acceleration</b>	<b>1.2G</b>
<b>Transmission type</b>	<b>Dual drive rack</b>
<b>Y-axis motor power</b>	<b>1.3KW*2</b>
<b>Working platform exchange time</b>	<b>15-17s</b>
<b>Guide width</b>	<b>35MM</b>
<b>Working platform load</b>	<b>1100kg</b>
<b>Enclosed laser protection</b>	<b>Yes</b>
<b>Lubrication type</b>	<b>Automatic oiling</b>
<b>Power available</b>	<b>1000-12000W</b>
<b>Dimension</b>	<b>10750*3380*2300MM</b>
<b>Total Weight</b>	<b>7700kg</b>

## Main Parameters:



### ▼ IPG Laser Source

- Higher Electro-optic conversion efficiency
- Superior reliability & modularity
- Easy maintenance and low down time
- Anti high reflection function



### Max Laser Source

- **High Cutting Efficiency:** Delivers fast, clean cuts across a wide range of metal materials.
- **Stable Power Output:** Ensures consistent performance with minimal fluctuation.
- **Energy Efficient:** Optimized for low power consumption without compromising output.
- **Long Service Life:** Designed with advanced components for durability and reduced maintenance.



### ▼ BOCI Laser Head

- High power series designed for metal sheet production industry.
- Adopts EtherCAT bus technology.
- Featured by easy-install-and-adjust benefits,
- Robust performance, is the most intelligent laser on the market.



### ▼ France MOTOREDUCER

- Stable operation
- Low noise
- Large output torque
- High speed ratio



### ▼ Taiwan - YYC

- High precision
- Accurate instantaneous transmission ratio
- High transmission efficiency;
- Long life



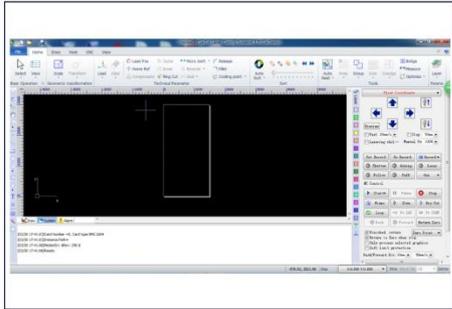
#### ▼ Square Rail- Lapping

- High precision
- Accurate instantaneous transmission ratio
- High transmission efficiency;
- Long life



#### ▼ Servo Motor-Inovance

- High accuracy
- High-speed performance
- High adaptability & stability
- Timeliness, short dynamic response time of motor



#### ▼ CYPCUT control system

- Easy to use
- Various file editing functions
- Support remote control
- Real-time alarm and protection



#### ▼ TongFei / S&A Water Chiller

- Dual cooling function
- Real-time alarm
- Machine protection

## Cutting with air vs nitrogen – 15.8 bar - Optional



- Thinner sheet such as Galvanized, 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 compared to Nitrogen bottles.
- Higher 30 bar pressure can be provided via the DHH1230 piston unit which comes with drier and filters.

### Screw Type Compressor Features:

- **Efficient Performance:** Delivers stable, continuous compressed air with high efficiency.
- **Low Noise Operation:** Designed for quiet performance, suitable for industrial environments.
- **Durable Build:** Heavy-duty components ensure long service life and low maintenance.
- **Easy Operation:** User-friendly control panel with real-time monitoring features.

## HX DUST COLLECTOR EXHAUST SYSTEM TODC-6L- XF06

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.