

M series

**The Ultimate 6-in-1 Powerhouse for Cutting,
Welding & Engraving!**

SOLUTION



SUPPLIER:

G·WEIKE TECH CO., LTD.

ABOUT US

Founded in 2004, GWEIKE Laser is a high-tech enterprise integrating R&D, production, sales and service, committed to providing high-quality full-scenario laser intelligent solutions for global customers. The company has high-standard sheet metal production capabilities, scientific and efficient assembly lines, and a comprehensive and systematic service network. It has received high praise from the industry and its products enjoy robust sales all over the world.

Based on R&D and driven by innovation, GWEIKE Laser continues to upgrade technology and interpret products in the fields of flexible automated production lines, three-dimensional five-axis, laser cladding, consumer electronics, high-power cutting, new energy power batteries, and ultra-precision cutting. Its technological innovation capabilities are always at the forefront of the industry.



Fiber R&D and production base



Intelligent integrated production base



Guangdong production base



Ancillary equipment production base

BRAND HONORS

GWEIKE Laser has obtained multiple certifications such as EU CE, US FDA, and ISO9001, as well as over 200 patents for product and technology authorization. It has also received numerous important honors and awards, including National-level "Little Giant" Enterprise of Specialization, Refinement, Specialty and Innovation, National High-tech Enterprise, National Industrial Design Center, National Intellectual Property Advantage Enterprise, National Patent-intensive Product, China Design Patent Excellence Award, China Good Technology, American Muse Design Platinum Award and etc.



SERVING THE WORLD



CREATING VALUE

GWEIKE's after-sales network spreads across the country and around the world. Robust customer files, impeccable quality oversight system, proficient technical team, uniform and standardized service protocols, and seamless, expedited information exchange channels ensure the timeliness, completeness, meticulousness, and superior quality of GWEIKE's pre-sales, in-sale and after-sales services.



M SERIES

The World's First, Six-in-One

The Ultimate 6-in-1 Powerhouse for Cutting, Welding & Engraving!



EQUIPMENT CHARACTERISTICS

Traditional cnc fiber laser machines are often cost-prohibitive and space-consuming, making them inaccessible to small businesses and individual users.

The Gweike M Series 6-in-1 transforms this landscape by combining a 1200W fiber laser for metal cutting and welding with 130W & 80W CO₂ lasers for engraving and cutting non-metals. It eliminates the need for multiple machines, reduces labor costs with 5X faster welding, and maximizes efficiency with exceptional fiber laser precision (0.02mm) and power.

Capable of working with stainless steel, carbon steel, aluminum, brass, acrylic, wood, leather, fabric, glass, and more, it offers high-performance laser processing that is now accessible to small businesses, workshops, and creators, all at an affordable price.

Processing Capacity

Detail	Parameters	
Model	Laser Welder 1200W	Laser Welder 800W
Laser Type	Fiber Laser	
Laser Power	1200W	800W
Functions	Welding / Cutting / Rust Removal & Cleaning	
Welding Mode	Continuous / Spot / Pulse Welding	
Processing Thickness	0.0078 - 0.197 in (0.2 - 5 mm)	0.0078 - 0.157 in (0.2 - 4 mm)
Wavelengths	1080 ± 10 nm	
Auxiliary Gas	Nitrogen or Oxygen	
Cooling Method	Air-cooling	
Laser Safety Class	Class 4	
Operating Temperature	14 °F - 104 °F (-10 °C - 40 °C)	
Machine Dimensions	25.6 × 14 × 24.02in (620 × 355 × 610mm)	
Machine Weight	35kg	
Cable Length	10m	

Note: The accuracy that can be obtained from the workpiece depends to some extent on factors such as the type of workpiece, pre-processing conditions, sheet size, and the position of the grid in the working area.

The above parameters are subject to change without notice, and the final technical parameters shall be subject to the actual order agreement

Detail	Parameters			
Model	M2	M2 Pro	M2 MAX	M2 ULTAR
Laser Type	Fiber Laser			
Laser Power	800W	1200W	800W	1200W
Functions	Welding / Cutting / Rust Removal & Cleaning/ CNC metal cutting			
Welding Thickness	0.0078 – 0.157 in (0.2 – 4 mm)	0.0078 – 0.197 in (0.2 – 5 mm)	0.0078 – 0.157 in (0.2 – 4 mm)	0.0078 – 0.197 in (0.2 – 5 mm)
Cutting Thickness	Up to 0.31 in (8 mm) with 800W fiber	Up to 0.39 in (10 mm) with 1200W fiber	Up to 0.31 in (8 mm) with 800W fiber	Up to 0.39 in (10 mm) with 1200W fiber
Working Area	24.4 × 24.4 in (620 × 620 mm)		54.3 × 36.2 in (1380 × 920 mm)	
Max. Working Speed	800mm/s			
Repeat Positioning Accuracy (X/Y)	±0.03 mm			
Max Speed (X/Y Axis)	X: 48 m/min (800 mm/s) Y: 30 m/min (500 mm/s)			
X-Axis Travel	760 mm		1450 mm	
Y-Axis Travel	620 mm		960mm	
Z-Axis Travel	50mm		60mm	
Laser Safety Class	Class 4			
Power Input	100 – 240V AC, 50/60 Hz			
Operating Temperature	32 °F – 104 °F (0 °C – 40 °C)			
Wavelength	1080 ± 10 nm			
Auxiliary Gas	Nitrogen / Argon / Oxygen			
Cooling Method	Air Cooling			
Machine Dimensions	25.6 × 14 × 24.02 in (620 × 355 × 610 mm) + 49.2 × 38.5 × 37.4 in (1250mm × 980mm × 950mm)		25.6 × 14 × 24.02 in (620 × 355 × 610 mm) + 86 × 71 × 43.3 in (2185mm × 1780mm × 1100mm)	

Machine Weight	250 kg	560kg
Cable Length	10m	

Note: The accuracy that can be obtained from the workpiece depends to some extent on factors such as the type of workpiece, pre-processing conditions, sheet size, and the position of the grid in the working area.

The above parameters are subject to change without notice, and the final technical parameters shall be subject to the actual order agreement

Detail	Parameters			
Model	M3	M3 Pro	M3 MAX	M3 ULTAR
Laser Type	Fiber Laser			
Laser Power	800W Fiber laser + 80W CO2 laser	1200W Fiber laser + 80W CO2 laser	800W Fiber laser + 130W CO2 laser	1200W Fiber laser + 130W CO2 laser
Functions	Welding / Cutting / Rust Removal & Cleaning/ CNC metal cutting / CO2 Cutting / CO2 Engraving			
Welding Thickness	0.0078 – 0.157 in (0.2 – 4 mm)	0.0078 – 0.197 in (0.2 – 5 mm)	0.0078 – 0.157 in (0.2 – 4 mm)	0.0078 – 0.197 in (0.2 – 5 mm)
Cutting Thickness	Up to 0.31 in (8mm) with 800W fiber laser Source / Up to 0.79 in (20mm) with 80W CO2 laser tube	Up to 0.39 in (10mm) with 1200W fiber laser Source / Up to 0.79 in (20mm) with 80W CO2 laser tube	Up to 0.31 in (8mm) with 800W fiber laser Source / Up to 1 in (25mm) with 130W CO2 laser tube	Up to 0.39 in (10mm) with 1200W fiber laser Source / Up to 1 in (25mm) with 130W CO2 laser tube
Working Area	24.4 × 24.4 in (620 × 620 mm)		54.3 × 36.2 in (1380 × 920 mm)	
Max. Working Speed	800mm/s			
Repeat Positioning Accuracy (X/Y)	±0.03 mm			
Max Speed (X/Y Axis)	X: 48 m/min (800 mm/s) Y: 30 m/min (500 mm/s)			
X-Axis Travel	760mm		1450mm	
Y-Axis Travel	620mm		960mm	
Z-Axis Travel	50mm		60mm	
Laser Safety Class	Class 4			
Power Input	100 – 240V AC, 50/60 Hz			
Operating Temperature	32 °F – 104 °F (0 °C – 40 °C)			
Wavelength	1080 ± 10 nm			
Auxiliary Gas	Nitrogen / Argon / Oxygen			

Cooling Method	Air Cooling + Water Cooling	
Machine Dimensions	25.6 × 14 × 24.02 in (620 × 355 × 610 mm) + 55.1 × 45.2 × 37.4 in (1400 × 1150 × 950mm)	25.6 × 14 × 24.02 in (620 × 355 × 610 mm) + 86 × 71 × 43.3 in (2185mm × 1780mm × 1100mm)
Machine Weight	310 kg	630kg
Cable Length	10m	

Note: The accuracy that can be obtained from the workpiece depends to some extent on factors such as the type of workpiece, pre-processing conditions, sheet size, and the position of the grid in the working area.

The above parameters are subject to change without notice, and the final technical parameters shall be subject to the actual order agreement

Equipment parameter table

NO.	Name	QTY	Brand
1	Laser Source	1 set	Max
2	Laser Cutting Head	1 set	GWEIKE
3	Machine bed	1 set	GWEIKE
4	X/Y axis High precision rack	1 set	GWEIKE
5	Reducer	1 set	GWEIKE
6	Precision Linear Guide Rail	1 set	DTX
7	Servo motor and servo driver	1 set	Leadshine
8	Servo motor and servo driver	1 set	Leadshine
9	Servo motor and servo driver	1 set	Leadshine
10	Proportional valve	1 set	GWEIKE
12	Machine tool accessories	1 set	GWEIKE
13	Numerical control system	1 set	GWEIKE
14	Beam	1 set	GWEIKE
15	Precision chiller	1 set	GWEIKE
16	Small material collection	1 set	GWEIKE

Process Parameters

CO2 Laser

Material Model	CF1390 (Max130W)	CF6060 (Max80W)
Acrylic	30mm	30mm
Plywood	24mm	24mm
Density board	10mm	10mm

Engraving - Engraving Speed

Model	CF1390	CF6060
Engraving speed	600mm/s	500mm/s

Fiber laser

Material Power	800W	1200W
Carbon Steel	Standard 6mm Max 8mm	Standard 10mm Max 12mm
Stainless Steel	Standard 4mm Max 5mm	Standard 5mm Max 6mm
Aluminum alloy	2mm	4mm
Brass	2mm	3mm

Welding - Plate Thickness (Wire Feeding Off)

Material/Power	800W	1200W
Stainless Steel	2mm	3mm
Carbon Steel	3mm	4mm

Cleaning - Cleaning Width 25mm

EQUIPMENT ADVANTAGES

▼ Gweike M Series: **The Ultimate 6-in-1 Laser**

Gweike Laser M Series is a revolutionary 6-in-1 laser machine, combining multiple advanced laser technologies into a single, high-performance system. This machine is designed to streamline production, reduce costs, and increase efficiency for industries that require cutting, welding, and engraving on various materials.



▼ Gweike laser M Series = 4 Industrial Machines



▼ One machine, 6 processing methods

Cost Reduced **by 70%**



CNC Gantry Cutting



Laser Welding



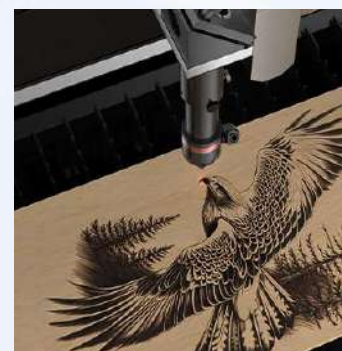
Laser Cleaning



Handheld Cutting



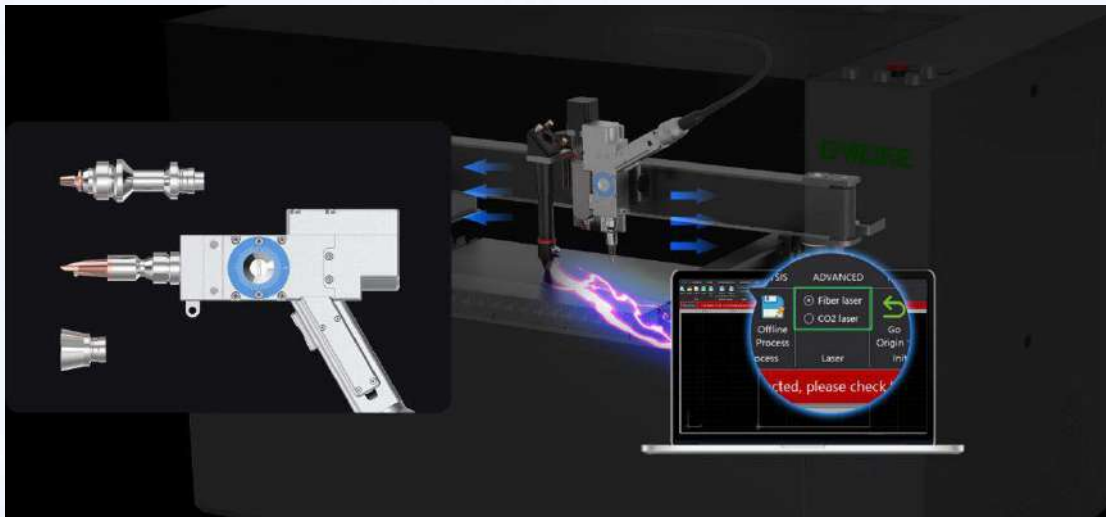
CO2 Laser Cutting



CO2 Laser Engraving

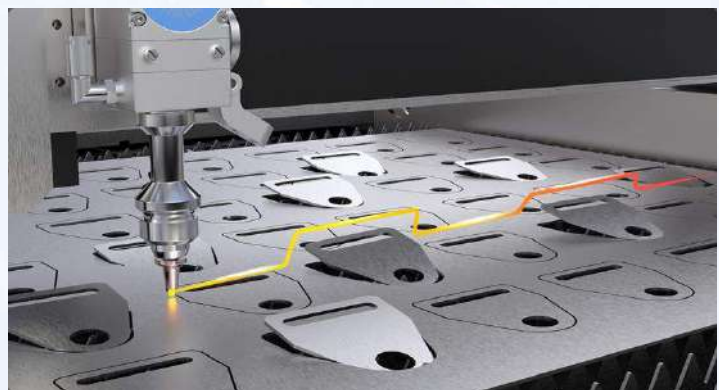
▼ 30-second Quick Mode-switching

Modular design: By replacing the laser head (fiber/CO₂) and adjusting parameters, it can quickly switch between cutting, welding, cleaning, and engraving modes.



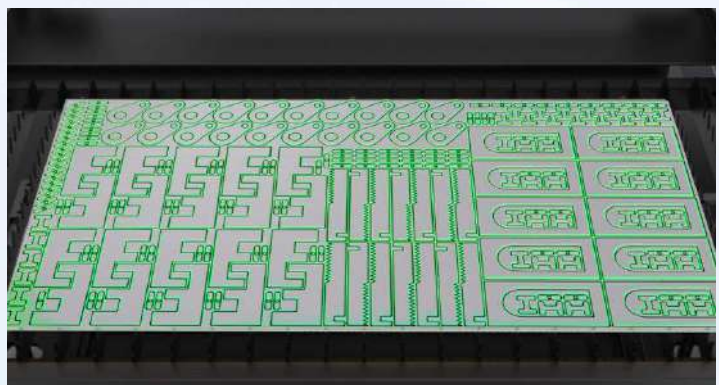
▼ Automatic obstacle avoidance

When encountering obstacles, the path can be automatically adjusted to avoid collisions, thereby reducing production interruptions caused by manual intervention, improving production efficiency and ensuring production safety.



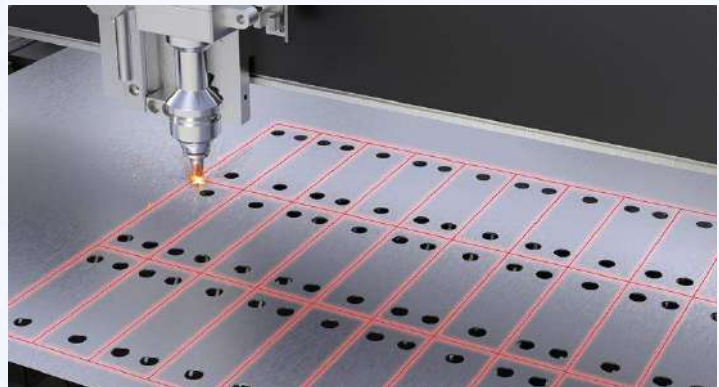
▼ Industrial nesting Software

Use efficient algorithms (such as automatic nesting, common edge cutting, and leftover material splicing) to maximize sheet material utilization, especially for special-shaped parts, which can save 15%~30% of raw materials.

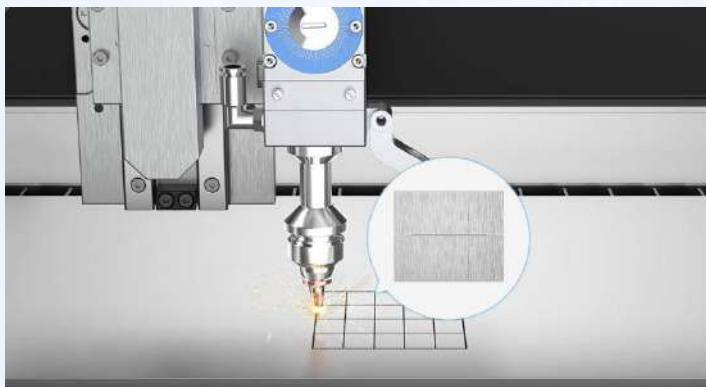


▼ Common edge cutting , saves materials and time

Traditional independent cutting requires a reserved cutting margin (usually 0.2~0.5mm/edge), while common edge cutting eliminates redundant intervals by sharing a common cutting line, increasing material utilization by 10%~25%.



▼ Traceless micro-jointing Anti-deformation, high precision



When cutting complex contours, by reserving micron-level tiny connection points (micro-connection points), the overall structure of the material is kept stable to avoid deformation or displacement of thin plates (such as 0.1~1mm) due to stress release during the cutting process.

▼ Intelligent Flowing cutting, improves production efficiency

No-stop cutting, saving idle time, single positioning can complete the whole board cutting, greatly shortening the delivery cycle. The cutting head does not need to return to the origin after each processing, and can quickly jump and position on the board to achieve continuous cutting.



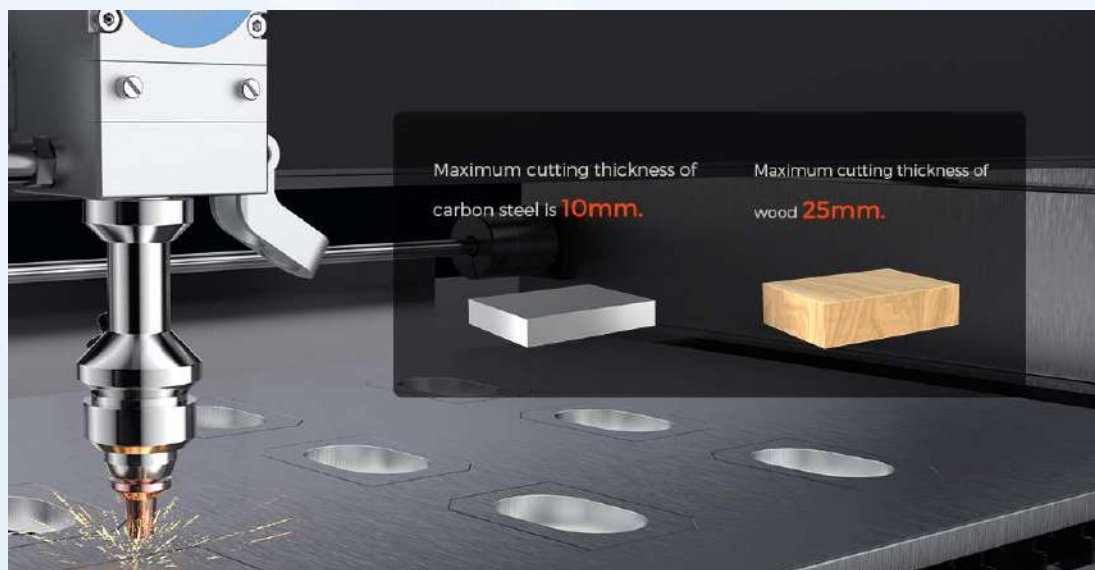
▼ Space-saving

Only 1/5 of the size of traditional machines in production lines, enabling efficient production in small factories.



▼ Strong cutting ability

Maximum cutting thickness of carbon steel is 10mm; Maximum cutting thickness of wood 25mm wood.



▼ Laser cutting efficiency increased by 300%.

▼ Environmental protection and smoke

Cutting

Traditional equipment (such as oxygen-fuel cutting) generates exhaust pollution. In contrast, fiber lasers have low energy consumption (30-50% less electricity than CO₂ lasers), and laser cleaning produces no wastewater, complying with environmental regulations (EPA standards).

accuracy of
0.02mm.



▼ Welding speed
traditional TIG



▼ 7*24-hour continuous working test



-10°C

Low
temperature

▼ Aviation-grade 0.1mm weld seam forming technology.



40°C

High
temperature



APPLICATION SCENARIOS



DIY Makers and Personal Studios



Handicraft and Customization Businesses



Small Metalworking and Hardware Processors



Small Manufacturing Enterprises and Home Workshops



Educational Institutions and Maker Spaces



Environmentally Friendly Small and Micro Businesses

Sample display



QUALITY INSPECTION

Pre-assembly inspection

The bed crossbeam collimator detects the guide rail surface and measures the straightness of the guide rail to ensure the accuracy of each device.



The precision machining part altimeter inspection examines the linear dimensions and geometric tolerances required by the drawings of small precision machining parts to ensure that the equipment accuracy meets the assembly quality of components.

The Swiss altimeter can be used to measure the inner and outer dimensions, height, depth or distance dimensions of planes, parallel surfaces and cylindrical surfaces. At the same time, three-dimensional/two-dimensional measurements can be performed, automatically search for the vertex of the hole or shaft, and record the maximum and minimum values and the difference between the maximum and minimum values in dynamic detection.

Assembly process

Guide rail and rack installation inspection and fixation are performed by professional technicians to assemble critical precision racks, etc., and dry gauges are used to adjust and calibrate, ensuring the proper installation of the gear rack.



Post-assembly inspection

By combining with different optical components and working with relevant software, dynamic performance detection of CNC machine tools can be conducted, such as measuring the positioning accuracy, repeated positioning accuracy, micro displacement accuracy and other dynamic parameters. It can also perform machine tool vibration testing and analysis, dynamic characteristics analysis of rack transmission, response characteristics analysis of drive system, dynamic characteristics analysis of guide rails, etc. It has extremely high accuracy and efficiency, and timely data processing, providing a basis for machine tool error correction.



Interferometer - detects rack accuracy, compensates for correction errors, and ensures machine tool accuracy.



AFTER-SALE SERVICE

➤ Pre-sales service

Professional consultation: Our consulting experts have insight into the application of global cutting technology, and provide customers with information consultation on products, pricing, technologies, industry solutions, etc. at any time through various channels such as telephone, WeChat, email, letter, and on-site visits.

Sample support: We offer customized sample on demand, providing customers with free proofing services.

Field inspection: Customers can make an appointment to visit our factory and exhibition hall for field inspection, where our exclusive engineer will provide professional and special reception.

➤ In-sales service

Comprehensive service: We uphold the concept of integrity-based and service-oriented, and provide customers with comprehensive and meticulous all-round services.

Quality assurance: We rigorously follow the product quality standards and conduct multiple quality inspections on each piece of the customer's equipment.

➤ After-sales service

Installation training:

We are responsible for free installation and commissioning of the equipment purchased by the customer.

We also provide free systematic product training to customer's technical personnel to facilitate its put-into-production promptly.

Maintenance and repair:

We offer a whole machine warranty and lifelong maintenance. Based on customer needs, we perform regular maintenance on machines to ensure their optimal performance.

Quick response:

In the event of a customer fault report, our after-sales service responds within 2 hours. After receiving the customer's warranty call, the after-sales engineer will provide a solution within 24 hours.

Online service:

We have a complete network service system. In addition to phone calls, customers can contact us through website messages, WeChat public account messages, WeChat consultation, customer service emails, QQ and other channels. Our professional network technicians will respond promptly.

Service outlets:

Service outlets across the country solve customer faults and problems promptly, and provide customers with machine operation guides, machine warranty guides, process maintenance guides, customer on-site maintenance, free accessories, etc.

INSTALLATION AND SERVICE

The installation and operation of GWEIKE fiber laser cutting machine is carried out in accordance with the two national standards "GB7247-87 Laser Product Radiation Safety, Equipment Classification, Requirements and User Guide" and "GB10320-88 Electrical Safety of Laser Equipment and Facilities".

Installation and commissioning-----

1. The company is responsible for guiding the installation and commissioning of the equipment
2. After signing the contract, our company will study the geographical location of customer company's factory promptly, determine the specific installation location of the equipment, and provide the equipment foundation map within 7 working days after the contract takes effect.
3. Before installation and commissioning, customer company should prepare the equipment foundation according to the equipment foundation drawings provided by our company to ensure that the equipment installation site is equipped in accordance with the equipment installation requirements.
4. After customer company completes the construction of the equipment foundation and the goods arrive at the delivery site of the demander, our company's personnel will deploy the necessary tools to install and commission the equipment. Our team will assume responsibility for completing the installation, commissioning, technical specification testing, trial operation, training, acceptance and handover of the equipment to users within 10 days.
5. All expenses associated with the installation and commissioning and the deployment of personnel will be covered by our company.
6. All equipment provided in the contract shall be installed and commissioned by our company, and the installation and commissioning of the equipment shall be completed.

Training-----

The company provides complimentary technical training. After installation and commissioning, customer company's operators will receive no less than 3 days of technical training at your company or our domestic training & maintenance center until the operators can use the equipment properly. The main training contents are as follows:

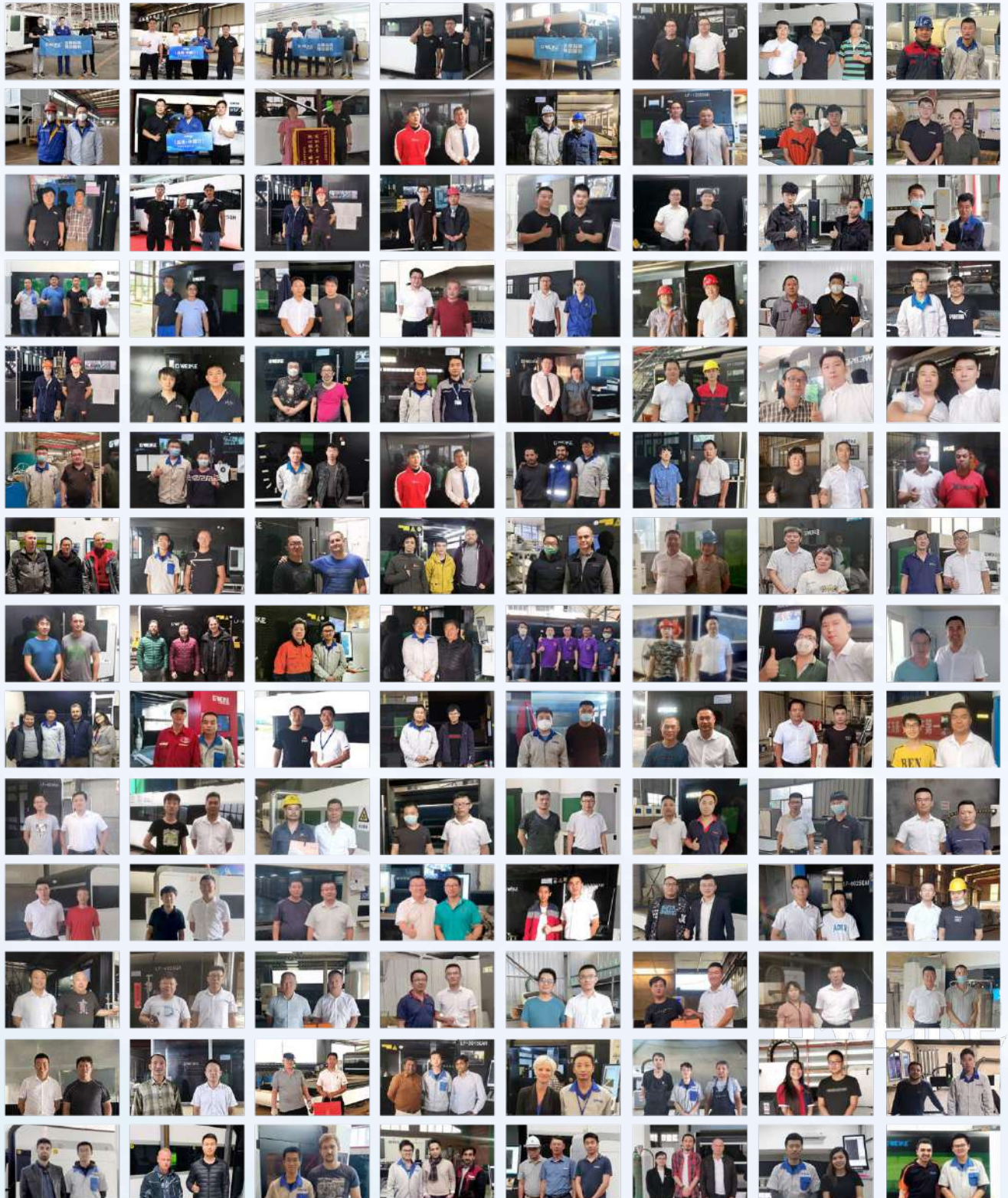


INSTALLATION AND SERVICE

After-sales service-----

1. After the equipment is accepted, the quality of the whole machine is guaranteed, inclusive of a one-year service and parts warranty. If there are quality problems with the parts during the warranty period, our well-trained service engineers will provide telephone or on-site support at any time.
2. During the warranty period of the equipment, our company is responsible for free replacement of parts and services due to any damage caused by the quality of the equipment itself, except for standard consumables (such as optical lenses, cutting nozzles), fiber optic lines, etc. and accidents caused by user negligence.
3. Our company maintains a reserve of high-quality operation and maintenance technicians, standing by to assist, who have been strictly trained by our company to customers at no extra cost, addressing the challenges of technician availability.
4. After the equipment leaves the factory, our company will establish a "user file card" to track and record relevant information about equipment's usage by the customer. After the equipment maintenance service is completed, our company will report the cause of the failure, remedial measures, completion of maintenance and restoration time and date to the demander in duplicate for reference.
5. Our company promises to inform the demander of software upgrades in a timely manner and provide free software upgrade services.
6. Our company possesses sufficient spare parts and accessories, able provide technical services and spare parts services to the demander in a timely manner to meet the equipment maintenance needs.
7. Our company arranges regular technical follow-up visits to the user's site by our project engineers, free of charge.

GROUP PHOTO



GWEIKE TECH CO., LTD.

Headquarter: 13A, Building D, Big Data Industrial Base, Xin Lou Street, High-tech Zone, Jinan, Shandong, China

Intelligent integrated production base: No.2999, Kejia Road, High-tech Zone, Jinan, Shandong, China

Fiber R&D and production base: No.58, Chuntian Road, High-tech Zone, Jinan, Shandong, China

Sheet metal forming ancillary equipment production base: No.6158, Wenquan Road, High-tech Zone, Jinan, Shandong, China

Tel: +86-132 9024 9306

Website: www.gwklaser.com

GWEIKE TECH CO., LTD. Shenzhen Branch

Address: Area A, Fuhai International Science and Technology Park, Baoan District, Shenzhen