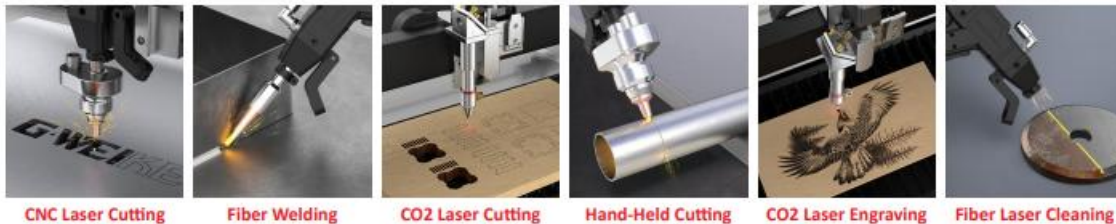


6 In 1 Compact Fiber & CO₂ Laser M3 Ultra

Cut, Weld, Clean & Engrave



The GWEIKE M3 Ultra 6-in-1 is our latest all-in-one laser manufacturing system, combining advanced 3-in-1 fiber laser technology with a fully enclosed CNC cutting platform and an integrated CO₂ laser. This versatile solution enables you to weld, cut, and clean metal materials manually using the handheld fiber laser, then seamlessly connect the fiber laser source to the enclosed CNC machine for high-precision sheet metal cutting.



In addition to its fiber laser capabilities, the integrated CO₂ laser provides precision cutting and engraving for a wide range of non-metal materials, including wood, acrylic, plastics, fabric, foam, leather, paper, and cardboard. It can also engrave glass, ceramics, and coated or chemically treated metals using an appropriate laser marking agent.

By combining six essential laser processing functions into a single enclosed system, the M3 Ultra offers exceptional flexibility while reducing equipment costs and workshop space requirements. It is the ideal solution for research and development, product prototyping, educational institutions, fabrication workshops, and small-scale manufacturers seeking a versatile, professional-grade laser system.

Key Features

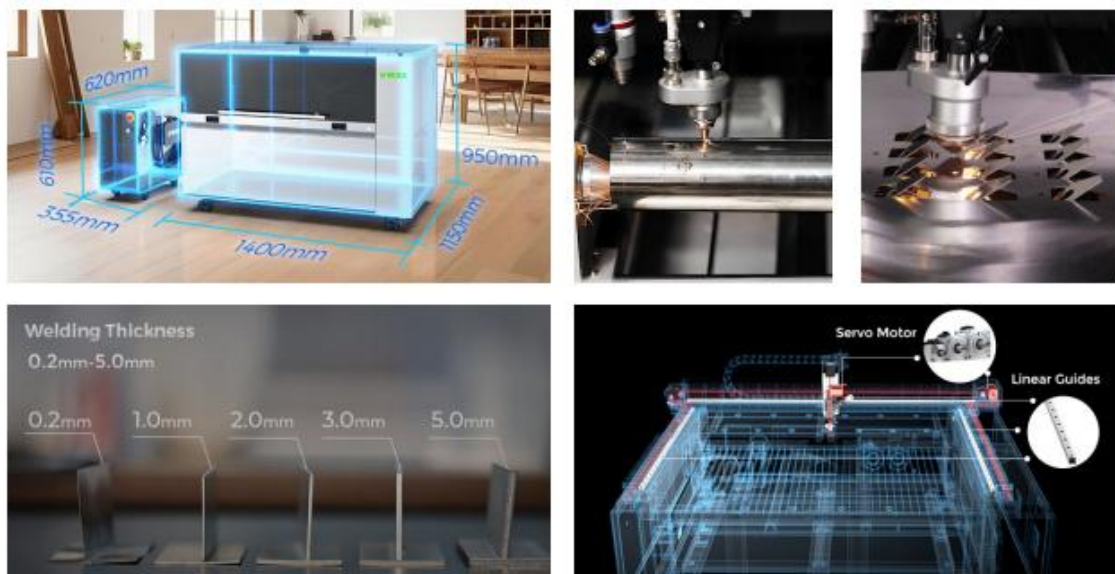
- 1300 × 900 mm enclosed CNC cutting bed
- Class 1 enclosed CNC laser system for safe operation
- Class 4 portable handheld fiber laser for welding, cleaning, and manual cutting
- Detachable fiber laser head converts the system into a portable welding, cleaning, and hand-cutting unit
- Air-cooled fiber laser source for low maintenance and reliable operation
- Water-cooled CO₂ glass laser tube
- Au3tech controller with intuitive operating software
- CNC positioning and repeatability accuracy of ±0.03 mm
- Automatic collision detection
- Advanced nesting software and fly-cutting functions as standard

- Built-in extraction fan, CO₂ air assist compressor, and water chiller
- Leadshine servo motor drive system
- High-pressure under-table fume extraction
- Portable air-cooled fiber laser when disconnected from the CNC platform
- Up to 5× faster welding compared with conventional TIG welding
- Quick 30-second changeover between CNC cutting and handheld operation
- Fast 15-second nozzle changes for welding, cutting, or cleaning applications
- Wire feeder included for welding with or without filler wire

Six Functions in One Machine

- CNC Fiber Laser Sheet Metal Cutting
- Handheld Fiber Laser Welding
- Handheld Fiber Laser Cleaning
- Handheld Fiber Laser Metal Cutting
- CO₂ Laser Cutting for Non-Metal Materials
- CO₂ Laser Engraving for Non-Metals, Glass, Ceramics, and Coated Metals

The GWEIKE M3 Ultra is designed to maximise productivity, minimise floor space, and provide unmatched flexibility, making it one of the most versatile laser systems available for modern workshops and manufacturing environments.



The GWEIKE M3 Ultra 6-in-1 is a compact, space-saving laser system that combines six essential laser functions in one versatile machine. Designed for studios, workshops, educational facilities, and factories, it delivers precision metal cutting with automatic collision detection for reliable performance.

Take your projects beyond flat sheet metal with handheld welding, cleaning, and cutting capabilities. Change between handheld nozzles in just 15 seconds, then mount the fiber laser head into the enclosed CNC machine in 30 seconds for high-precision sheet metal cutting—maximising productivity while minimising downtime.