



Product Sheet

GCC T500

Category: CO2 laser

T500 – For those who demand raw power and millimetre precision

The GCC T500 combines powerful laser cutting with advanced engraving capabilities in a robust and flexible machine. With up to 200W laser power, precise motion control and support for both cutting and 3D engraving, the T500 is the obvious choice for companies working with acrylic, plastic, wood and fabric – where every detail counts.

- Extremely powerful cutting capacity
- High speed and precision
- Exceptional 3D engraving

Product description

GCC T500 – Powerful laser cutting with maximum precision

The GCC T500 is a high-performance laser cutting machine, developed with GCC LaserPro's advanced technology and a powerful motion system. The machine offers exceptional 3D engraving quality and high cutting speed, making it one of the most popular laser cutting machines on the market.

The T500 can be equipped with a laser source of up to 200W, making it possible to cut through 25 mm acrylic in a single pass while delivering a perfect, clear cut surface. Its high-torque AC servo motor and steel cord belt ensure stability, accuracy and long life.

With LaserPro's unique laser control technology and a range of user-definable functions, the T500 is a flexible and user-friendly machine that can be adapted to different production needs. Its robust construction, combined with high cutting quality and precision, makes it an optimal solution for companies working with acrylic, wood, plastic, fabric and other materials.

The GCC T500 is the perfect solution for companies looking for a powerful, accurate and flexible laser cutting machine with maximum capacity and outstanding cutting quality!

Description

- Extremely powerful cutting capacity – Up to 200W laser power makes it possible to cut through 25 mm acrylic in a single pass.
- High speed and precision – AC servo motor and steel cord belt provide stability and accurate cuts.
- Exceptional 3D engraving – LaserPro's technology ensures detailed and deep engravings.
- User-friendly and flexible – Customisable functions for different cutting and engraving needs.
- High-quality cutting surface – Smooth and clear cut surface even at high speeds and complex cuts.

Technical Specification

Machine Specifications	
• Workspace	1300 x 916 mm (51" x 36")
• Maximum workpiece size	1320 x 940 x 165 mm
• Machine dimensions (W x D x H)	1867 x 1482 x 1103 mm
• Weight	370 kg
• Laser sources: CO laser	60, 80, 100W air cooling, 150W, 200W water cooling
• Cooling	Water-cooled, optimal operating temperature 15° - 30°C
• Drive system	High-torque AC servo motor and steel cord belt for high precision and stability
• Maximum engraving speed	2.54 m/s (100 IPS)
• Maximum cutting speed	1.27 m/s (50 IPS)
• Speed control	Adjustable 0.1 - 100%, up to 16 colour-linked settings per job
• Power control	Adjustable 0 - 100%, up to 16 colour-linked settings per job
• Engraving capacity	256-level greyscale imaging for high detail
• Z-axis movement	Automatic
• Focus lenses	Standard 2.0", selectable options: 1.5", 2.5", 3.0" and 4.0"
• Resolution (DPI)	125, 250, 300, 380, 500, 600, 760, 1000, 1500
• Interface	• 10 Base-T Ethernet • USB Type A 2.0 (for storage, max 32GB, FAT file format) • USB Type B 2.0 (for connection to computer)
• Compatible operating system	Microsoft Windows
• Control panel	User-friendly LCD panel with quick-access buttons
• Safety features	• Laser class 1 (EN60825-1:2014, EN ISO 13849-1:2023) • Laser class 2 (CDRH) for CO lasers • Machinery Directive 2006/42/EC
• Operating voltage	• 100W and higher: 200-240VAC, 50/60Hz, automatic switching, max 15A
• Extraction system	• External extraction system required, minimum capacity 800m³/h (471 CFM) • Requires 2.3 kPa negative pressure
• Extraction ports	• Upper port: 101 mm (4") • Lower port: 127 mm (5")