

Business growth by design

→ Speedy 500



www.troteclaser.com



High efficiency cutting and engraving
Multifunctional table concept
1245 mm x 710 mm working area
Pass-through capability

Ideally equipped

→ for every application

The Trotec Speedy 500 is the ultimate laser cutting and engraving system for those who require fast processing of large volumes and/or large surface materials, where smaller laser models are often insufficient. The Speedy 500 is the most productive system in its class.



Standard



Extraction on working head

An extraction hose is mounted directly on the working head and removes dust and smoke from the material surface during processing.

Air-flushed optics

All optics are air-flushed, providing for maintenance-free operation and long life.

InPack-Technology™

Protects dust-sensitive components such as the mechanical components, optical elements and electronics. Consequently, the Speedy 500 operates practically without maintenance expense or part wear, even when utilized extensively! For you this means greater productivity at lower costs.

Extended dust protection

Offers additional protection for motors and electronics in dust-intensive applications.

Lenses

Different applications require different lenses to achieve optimal results. The Speedy 500 is by default supplied with a 2" lens.

JobControl™ Expert Software

Supports you perfectly in handling your engraving and cutting jobs. The laser software helps you with many useful and intelligent functions that make your work easier. For example: Job Time Calculator, add marker or bi-directional communication.

Options



Vision system i-cut®



Standard table



Cylindrical engraving device

Pass-through

Enables processing of very long and bulky parts. The feed-through feature makes the Speedy 500 a laser safety class 4 device.

Gas kit

Reduces flame-up, improves dust dispersal and also protects the lens. Activation and deactivation are controlled by the JobControl software.

Auxiliary lenses

Use of a 2.5", 3.75" or 5" lens resp. 2.5" clearance lens significantly improves output quality when cutting thick materials.

I-cut® Vision system

Extremely precise registration mark recording and cutting path compensation system. With the aid of registration marks, it recognizes distortions in printed materials and adjusts the cut path.

Cylindrical engraving device

For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs up to 1040 mm in length and 254 mm in diameter. The cylindrical engraving device is mounted in the processing space instead of the table, thereby maximizing the processing diameter.

CAD/CAM Software

TroCAM is a fully loaded, integrated CAD/CAM Software solution to operate your Trotec laser. It has been developed to provide improved productivity, highest reliability and added flexibility.

Auto-focus with photoelectric guard

Electro-optical auto-focus with photoelectric guard. Offers the extra convenience of accurate, automatic focusing of the laser beam on the workpiece surface.

→ Greater revenue by greater versatility

On its 1245 mm x 710 mm in working area, the Speedy 500 provides enough space for most standard material formats in use today. Despite the large working area, every corner of the interior is easy to access.



The machine's pass-through capability enables processing of very long and bulky parts. The unique multifunctional table concept facilitates optimal configuration for a large range of cutting and engraving applications.



→ Multifunctional table concept

For the Speedy 500, Trotec has developed a table concept that is unique in today's market. The best table for the desired application can be selected and easily changed (standard, vacuum or cutting table). This provides very high quality results.

Standard table

The standard table is ideal for engraving heavy workpieces (marble, granite, wood, acrylic). It lies on the base frame and is supported by cross members.

Large processing space

If necessary the system can be operated without a table insert. The workpieces are put onto the base frame which can be moved up and down electronically. This enables processing (mainly engraving) of workpieces with a height of up to 300 mm.

→ More tables – more possibilities



Vacuum table

Vacuum table

Thin and light materials that tend to lie unevenly on the base can be engraved, cut or marked in combination with the vacuum table (e.g. films, plastic laminates, veneers, paper, etc.). The well-designed adapter system provides for maximal vacuum effect.

Aluminium or acrylic bars

In combination with the vacuum table the bars assure reflection-free cutting.



Cutting table with aluminium or acrylic bars

Cutting table

With the cutting table you are optimally equipped for cutting heavy materials. The nozzle bar integral to the machine frame generates an ideal cross-flow of air, which blows away dust particles and vapors beneath the process materials. The specially shaped air guides prevent cut parts that fall down through the screen from being burned or damaged. Anodized aluminum bars lock in place independently. They can be replaced by acrylic bars to assure reflection-free cutting.

→ Technical Details

Overall dimensions (W x D x H):	1920 x 1240 x 1140 (780 mm without trolley) mm
Weight:	520 – 580 kg (depending on laser power)
Max. working area:	1245 x 710 mm or optional 1420 x ∞ (with pass-through)
Loading area:	1420 x 820 mm or optional 1420 x ∞ (with pass-through)
Max. processing speed:	254 cm/sec; acceleration 2 G
Working tables:	Electronic z-axis with servo motors computer controlled and programmable max. 25 kgs area load over the whole working area standard, vacuum or cutting table, acrylic or aluminium grid
Max. height of workpiece:	standard table: 100 mm; vacuum or cutting table: 120 mm removed table: 300 mm at an area of 1245 x 610 mm
Addressable accuracy:	+/- 0,1 mm on the whole area (depending on the material)
Static repeat accuracy:	<± 15 µm
Mechanical design:	Fully enclosed chassis with double safety interlock system laser safety class 2 (laser safety class 4 with pass-through opening) CE compliant maintenance-free, brushless DC servo motors InPack-Technology™
Laser power:	60 – 200 watt sealed-off CO ₂
Software:	JobControl™ Expert, TroCAM CAD/CAM software or i-cut®, control via Trotec printer driver or HPGL



Trotec laser – developed and built in Austria

Send us your materials and samples: Our application engineers support you in looking for the optimal laser system for you.



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