

The new dimension in laser processing

→ Speedy 400 platform



www.troteclaser.com



- Easy access to work area
- Work area 1000 x 610 mm
- Flexible table design
- Efficient engraving delivering reduced processing costs
- Available with CO₂ laser, fiber laser or both

More Speedy than ever

The Speedy 400 is the new dimension in laser processing, offering maximum usability and flexibility, with the power to increase your overall production capacity and efficiency. The Speedy 400 has no front bar, which means operators have easy access to the work area. Loading and unloading bulky jobs and the optional rotary attachment has never been easier. In addition, engraving and cutting jobs can be set up quickly enabling even more ease of use for the operator. Speedy 400 is available with a CO₂ laser, a fiber laser or both laser sources in one laser system.



Standard

→ Optimised work area

The generously sized 1000 x 610 mm work area suits most standard material sizes, saving you time and money on pre-cutting and increasing efficiency due to the maximised use of the engraving area.

Focusing lens

The 2.0 inch lens is suitable for most standard engraving and cutting jobs. For the Speedy 400 fiber marking system lenses with 3.2 inch and 5 inch are available. Speedy 400 flex is equipped with 2.85 inch lens.

Ready for flexx

The Speedy 400 can be fitted with an additional laser source, before or after purchase. The Speedy 400 and the Speedy 400 fibre can be upgraded to a Speedy 400 flexx at any time. This offers you the flexibility to adapt the laser to suit your needs - it is your choice!

JobControl® Laser Software

The Trotec laser software supports you perfectly in handling your engraving and cutting jobs. It is equipped with a variety of useful and intelligent features that make your work easier, such as the bi-directional communication between PC and laser, the Job Time Calculator or the position marker.

Flexible table design

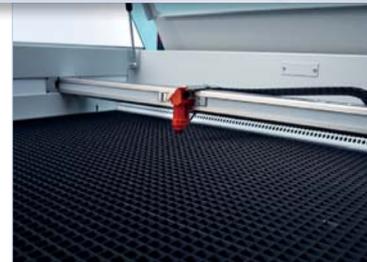
The innovative design enables the table to be configured to suit any cutting and engraving application, and makes switching between laser applications faster than ever. Simply attach the right table for your application (no tools required). The Speedy 400 comes with the following standard table configurations: magnetic engraving table, vacuum table, cutting table (lamellas) or black aluminium grid-table.



Vacuum table for thin and light materials



Cutting table with aluminium lamellas for reflection-free cutting



Black aluminium grid for cutting of small pieces

Options

→ Rotary attachment

For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable cylindrical engraving device is available with cones or rolls (exchangeable).

Working tables

Choose from various working tables depending on your application: magnetic engraving table, vacuum table, cutting table (lamellas), black aluminium grid-table, honeycomb table for vacuum table or white plastic cutting grid. Materials of up to 305 mm height can be processed.

Additional lenses

For perfect engraving and cutting results, lenses with different focal lengths may be used, depending on the application. (Available lenses: 1.5 inch, 2.0 inch, 2.5 inch and 4.0 inch CO₂ lens; 3.2 inch and 5 inch fiber lens; 2.85 inch flexx lens)

Air Assist

Prevents combustion of flammable materials, helps to direct debris and fumes towards the exhaust vents and protects the lens. Full control (activate/deactivate) via JobControl® software.

Pass-through

Enables processing of very long and bulky parts. The feed-through feature makes the Speedy 400 a laser safety class 4 device.

Protects the environment and your wallet

With the ISO 14001:2004 certificate in 2008 Trotec has been underlining the commitment to environmental protection as the only manufacturer of laser systems. The "Efficient Engraving" function is the next consequent step on this path.

Efficiency is a standard at Trotec. Efficient engraving optimised the energy consumption of your laser system and protects the environment more than any other laser system on the market. Less energy consumption also means less energy costs resulting in more money in your wallet.

→ InPack-Technology™

High-quality engraving and cutting depend on several factors. The perfect function of the axis system is most important. The InPack-Technology™, with its closed design, protects the axis. Consequently guide components are perfectly protected against dust. This guarantees years of trouble-free processing even under intensive use. Additional costs for wear parts that have to be exchanged regularly with machines from other manufactureres are thus eliminated.

Laser pointer and autofocus

A red laser pointer indicates the location at which the laser beam will contact the material. This assists the operator to accurately position the laser on the material even before the engraving begins. The auto-focus (either electro-optic or via software) ensures that the laser beam is correctly focused when contacting with the material.

Efficient Engraving

The Speedy 400 has a sophisticated energy saving system, dramatically reducing energy consumption. The laser switches into stand-by mode automatically, while the start-stop feature switches the filter system on as soon as a job is processed.

Control of the exhaust system

Trotec filter systems are automatically controlled via JobControl®. For example, you can turn the filter on before the start of engraving or at the end of engraving to optimise the removal of dust and fumes. The system provides dynamic feedback on turbine activity and filter saturation.



Rotary attachment for bottles or glasses



Vision system i-cut



Pass-through for bulky materials

→ JobControl® Vision

Archive perfect results when cutting printed materials (acrylic, MDF, polyester, cardboard, and many more). A camera is mounted on the processing head of the laser and registers the dimensions and position of the printed design by "reading" the registration marks prior to the cutting process.

Temperature sensor

Some materials (eg. acrylics) can flame-up during laser processing – especially during cutting operations. If the temperature in the cabinet reaches a pre-set maximum limit, the laser will stop and trigger an alarm to alert the operator.

Extended dust protection

In addition to Trotec InPack-Technology, the extended dust protection system protects the programmable axes from dust. It offers extra protection when working with materials that create dust and debris, such as rubber or wood.

Postscript converter

The unique postscript converter converts PDF, EPS, BMP, JPEG and TIFF files into "Trotec spool file" format. This useful tool helps to automatise workflow. PDF's created using Mac OS can be sent to the laser quickly and easily.

Exhaust systems

Trotec highly recommends that lasers are connected to a filter system. Trotec offers a selection of filter systems designed to suit a variety of applications. Trotec filter systems can be controlled remotely via JobControl® software and are fully integrated.

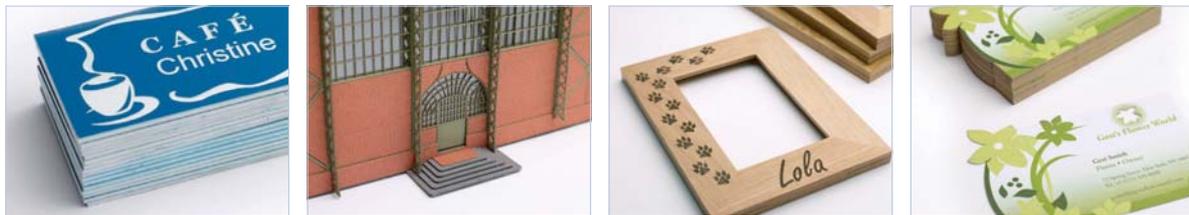
→ The technology inside Speedy 400

	Speedy 400	Speedy 400 fiber	Speedy 400 flexx
Overall dimensions (W x D x H):	1400 x 950 x 1070 mm	1400 x 950 x 1070 mm	1400 x 950 x 1070 mm
Working area:	1000 x 610 mm	1000 x 610 mm	1000 x 610 mm
Max. height of workpiece:	305 mm	287 mm	296 mm
Max. processing speed:	355 cm / second, acceleration 4g	200 cm / second, acceleration 4g	CO ₂ -Laser: s. Speedy 400 fiber laser: s. Speedy 400 fiber
Accuracy:	Addressable accuracy: 5µm Static repeat accuracy: < ±15µm		
Mechanical design:	Fully enclosed chassis with double safety interlock system laser safety class 2, CE compliant maintenance-free, brushless DC servo motors InPack-Technology		
Laser design:	Sealed-Off CO ₂ laser from 40 - 120 Watt	Fibre laser with 10, 20, 30 or 50 Watt	Sealed-Off CO ₂ laser from 40 - 120 Watt Fibre laser with 10, 20, 30 or 50 Watt
Weight:	approx. 300 kg (depending on laser power)	approx. 300 kg (depending on laser power)	approx. 350 kg (depending on laser power)

→ **Trotec laser – developed and built in Austria**

We can recommend the right laser system for you. Contact us for a demo, send us samples or contact us to find out which Trotec laser is right for your business.

Application examples CO₂ Laser



Application examples Speedy 400 flexx



Application examples fibre laser



www.troteclaser.com

Trotec Produktions u. Vertriebs GmbH
Linzer Str. 156, A-4600 Wels, trotec@troteclaser.com
Tel. +43 / 72 42 / 239-7002, Fax +43 / 72 42 / 239-7380

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