

For highest demands

→ Speedy 300 platform



www.troteclaser.com



Speedy 300 laser engraver stands for productivity, economic efficiency and precision.
Available with CO₂ laser, fiber laser or both.

Superior laser engraving and marking has a name:

→ Speedy 300

Trotec lasers are the fastest and most productive systems on the market. Speedy 300 offers a top speed (355cm/sec. CO₂), with an acceleration of 5 g .

Your benefit: You can produce 30% – 100% more than with competitive systems—every day—without sacrificing quality and this translates to higher profits. Performance, productivity, quality and reliability add up to a lower total cost of ownership—this means value when you choose Trotec.

Speedy 300 is available with a CO₂ laser, a fiber laser or both laser sources in one laser system.



Standard

→ Focusing lens

Use the 1.5 inch lens for finest detail CO₂ engravings with maximum quality. For the Speedy 300 fiber marking system lenses with 3.2 inch and 5 inch are available. Speedy flex is equipped with 2.85 inch lens.

Flexx Upgrade

The Speedy 300 can be equipped later on with an additional laser source. Speedy 300 or Speedy 300 fiber can thus be upgraded to a Speedy 300 flexx at any time. It is your choice!

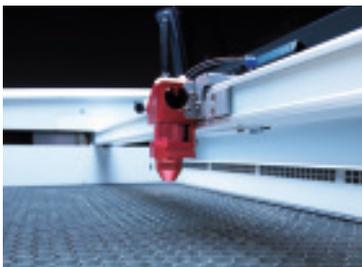
Laser pointer

A red laser pointer indicates the location at which the laser beam will contact the material. For precise positioning of the job before the engraving begins.

JobControl® Expert Software

Supports you perfectly in handling your engraving jobs. JobControl® lets you utilize your computer's performance allowing access to the many useful and intelligent functions that make your work easier.

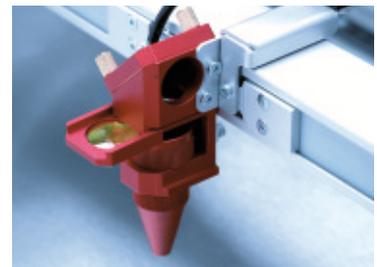
Options



Honeycomb table



Cylindrical engraving device



Air assist

Honeycomb table

The solid honeycomb structure minimizes beam back reflection and yields perfect cutting results.

Vacuum table

Fixes various materials to the working table using a light vacuum. This reduces handling effort associated with mechanical mounting (e.g. gluing, magnets) and offers even better engraving and cutting results. Especially well-suited to thin materials such as film, veneers, paper, etc.

Cylindrical engraving device

For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs up to 485 mm in length and 184 mm in diameter. For maximum flexibility, the tiltable cylindrical engraving device is available with cones or rolls (exchangeable).

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.

→ InPack-Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime – less maintenance



InPack-Technology is a combination of the highest quality components for ultra long lifetime combined with protection of the optics and all sensitive components. Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your Speedy 300 will be ready for years of trouble free, heavy-duty production. You can forget the added costs of spare parts that need to be replaced regularly on competitors' systems. It all adds up to a lower total cost of ownership offer the lifetime of each Speedy 300 laser system.

→ Electro-optic autofocus

The Speedy 300 offers 3 different variants for optimal focusing on the material: manual focus with focus gauge, electro-optical with photo-electric guards or via Software. Maximum convenience for the operator through correct focusing of the laser beam on the surface of the workpiece.

Working platform (ferromagnetic)

The working platform of the Seedy 300 is ferromagnetically treated. This means that it is easy to mount thin materials like paper or films using magnetic retention.

Bi-directional communication

Connects a PC to your Speedy 300. This gives you full control of many laser functions at all times. You can start any engraving job without leaving your workplace.

Control of the exhaust system

Trotec exhaust system owners can automatically control this system via JobControl®. For example, you can initiate the exhaust power before the start of engraving or after the end of engraving to optimize the removal of dust or fumes. You also get dynamic feedback on turbine activity and filter saturation.

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)

Temperature sensor

Some materials (e.g. acrylics) can flame-up in laser processing – especially during cutting operations. In case of imminent danger, an acoustic signal is output and consequently ensures the greatest possible safety of laser operation.

Extended dust protection

For reliable operation of your laser system, it is very important to protect dust-sensitive components such as motors and electronics. Unique InPack-Technology handles this. Extended dust protection protects programmable axes from dust, too. It also offers supplemental protection if you usually process dust and debris producing materials such as rubber or wood.

Multi Color Option

The Speedy 300 CO₂ laser is the only laser system in the world you can use to produce customized color stamps. This means that you can perform engraving of stamp text plates, cutting of pads and dyeing with one device! (MCO only available for Speedy 300)

Postscript converter

The unique postscript converter converts EPS and PS Postscript files, PDF, BMP, JPEG and TIFF files into a "Trotec spool file" format.

Exhaust systems

An exhaust system is absolutely recommended for optimal operation of the laser. Trotec offers a variety of exhaust systems depending on the application. Special integrated electronics let you control the Trotec exhaust systems remotely via JobControl® software.

i-cut® Vision system

Perfect results when cutting printed materials (acrylic, MDF, polyester, cardboard, and many more). A camera is mounted on the processing head of the Speedy 300 and registers the dimensions of the printed design by "reading" the registration marks prior to the cutting process.

Laserpower upgrade

The Speedy 300 can be economically upgraded at any time to a higher wattage.

→ Technical details

	Speedy 300	Speedy 300 fiber	Speedy 300 flexx
Overall dimensions (W x D x H):	1090 x 890 x 590 mm		
Working area:	726 x 432 mm		
Max. height of workpiece:	200 mm	169 mm	200 mm
Max. processing speed:	355 cm / second, acceleration 5g	200 cm / second, acceleration 5g	CO ₂ -Laser: s. Speedy 300 fiber laser: s. Speedy 300 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 12-120 watts	fiber laser with 10, 20, 30 or 50 watts	Sealed-Off CO ₂ laser with 30 or 60 watts fiber laser with 10, 20, 30 or 50 watts
Weight:	approx. 135 kg (depending on laser power)	approx. 135 kg (depending on laser power)	approx. 203 kg (depending on laser power)

→ **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.

Application examples CO₂ Laser



Application examples Speedy 300 flexx



Application examples fiber laser