

Maximum Flexibility

→ **Speedy 300 flexx**



One laser system - endless applications  
Choose CO<sub>2</sub>, Fiber, or both laser sources

A new level of flexibility:

## → Speedy 300 flexx

The new Speedy 300 flexx is a unique laser system. For the first time a CO<sub>2</sub> and a fiber laser source are integrated into the one machine. The option of combining the two laser sources in the one platform means that engravers can now directly engrave almost any material with the one machine. A CO<sub>2</sub> laser is ideal for engraving plastics, wood, rubber, glass and many other materials while the fiber source will directly mark metals and colour change plastics.

Depending on the job requirements either the CO<sub>2</sub> or fiber source can be chosen.

The unique Trotec Flexx-Function also allows both laser sources to be used in the same job.

### Standard

#### → CO<sub>2</sub> and fiber laser

Both a CO<sub>2</sub> and fiber laser are integrated into the Speedy 300 flexx. Choose a CO<sub>2</sub> laser with 25, 30, 40, 60, 75 or 80 watts laser power and combine it as you like: with a 10, 20, 30, or 50 watts fiber laser.

Use both laser sources in a single job without the need to manually change laser tubes, lenses or focus. The revolutionary Speedy 300 flexx takes advantage of the patented JobControl laser software: Assign fiber or CO<sub>2</sub> source via color mapping – simple and easy to use.

#### Flexx lens

Use the Flexx lens for finest detail engravings and markings with maximum quality. Suited for both wavelengths - fiber and CO<sub>2</sub>.

#### Trotec flexx function

Two materials, one process step: Trotec's Flexx function saves you time. As an example, leather and metal can be processed in one step: The leather is engraved with the CO<sub>2</sub> laser while the fiber laser takes care of the metal marking. Workpieces with mixed materials can be marked and engraved easily.

#### Laser pointer

A red laser pointer indicates the location at which the laser beam will contact the material. You can minimise the risk of faulty engraving by precise positioning of the job before the engraving begins.

### Options



#### Honeycomb table

The solid honeycomb structure minimises 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. glueing, 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™ - a combination of the highest quality componentry and protection of the optics and all sensitive parts to ensure an ultra long trouble free life.

Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your Speedy 300 flexx will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of the machine.

## → Electro-optic autofocus

The Speedy 300 flexx offers 3 options for precision focusing. Manual focus with focus gauge, electro-optical with photo-electric guards or via software.

### Working platform (ferromagnetic)

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

### 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.

### 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 can be chosen to match the application. (available lenses: 1.5 inch, 2.0 inch, 2.5 and 4.0 inch CO<sub>2</sub> lens; 3.2 and 5 inch fiber lens)

### Temperature sensor

Some materials (e.g. acrylics) can flame-up in laser processing – especially during cutting operations. With the temperature sensor fitted, and alarm will sound if the temperature reaches a critical level.

### i-cut® vision system

Perfect cutting results when processing printed materials such as acrylic, MDF, polyester, cardboard, paper, and many more. Registration marks are printed along the image. The camera is mounted on the processing head of the Speedy 300 flexx and registers the dimensions of the printed design by “reading” the registration marks prior to the cutting process.

### Postscript converter

The unique postscript converter converts .EPS and .PS Postscript files, .PDF, .BMP, .JPG 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.

### Laserpower upgrade

The Speedy 300 flexx can be economically upgraded at any time to a higher wattage (CO<sub>2</sub> laser up to 80 watts, fiber laser up to 50 watts).

### Extended dust protection

For reliable operation of your laser system, it is very important to protect dust-sensitive components such as motors and electronics. Extended dust protection supplements the In Pack Technology™ to protect programmable axes from dust. It also offers extra protection if you usually process dust and debris producing materials such as rubber or wood.

# → Technical details

<b>Overall dimensions (W x D x H):</b>	1090 x 890 x 590 mm
<b>Working area:</b>	726 x 432 x 200 mm
<b>Maximum engraving speed:</b>	CO <sub>2</sub> laser: 355 cm / second, acceleration 5g Fiber laser: 200 cm / second, acceleration 5g
<b>Precision:</b>	Addressable accuracy: 5µm Static repeat accuracy: < ±15µm
<b>Mechanical design:</b>	Fully enclosed chassis with double safety interlock system laser safety class 2, CE compliant maintenance-free, brushless DC servo motors InPack Technology™
<b>Laser design:</b>	Sealed-off CO <sub>2</sub> laser with 25, 30, 40, 60, 75 or 80 watts Fiber laser with 10, 20, 30 or 50 watts
<b>Weight:</b>	Approx. 203 kg (depending on laser power)

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

## Application examples - CO<sub>2</sub> laser



## Application examples CO<sub>2</sub> and fiber laser



## Application examples fiber laser

### Showrooms and Training & Development Facilities

NSW (Head Office): 23B Rodeo Rd Gregory Hills 2557

QLD: 20/23 Ellerslie Rd Meadowbrook 4131

VIC: 16/345 Plummer St Port Melbourne 3207

WA: 1/40 Ledger Rd Balcatta 6021

SA: 28 Blenheim St Adelaide 5000

NZ: 45/18 Lambie Dr Manukau Auckland 2241

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