

# Speedy 300

Fast engraving and cutting laser



The Speedy 300 presents an innovative design using the highest quality components with completely new electronics. It offers unmatched reliability and maximum productivity over many years.

**Trotec flexx function:** Two materials, one process step: thanks to the flexx function, time is saved. For example, leather and metal can be processed in one step: With a CO2 laser, the leather is engraved, with a fiber laser the metal can be marked. Products with mixed materials can be easily marked and engraved.



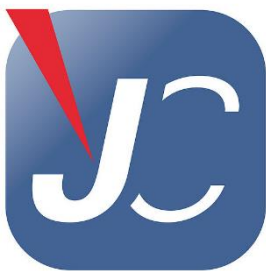
**Constant quality:** Even at top speeds, the Speedy 300 delivers engraving and cutting quality unmatched by others thanks to the seamless teamwork between a reliable laser source, the most precise mechanics and comprehensive software.

**OptiMotion™:** With OptiMotion, our new innovative real-time motion planning, cutting performance and acceleration are maximized with respect to cutting geometry. This guarantees perfect curve quality and top speed.



**Reliability through protection InPack-Technology:** The core of Trotec mechanical reliability: fully protected against dust and maintenance-free mechanics ensure consistent engraving quality throughout the life of the machine.

**Quality engineering:** All Trotec lasers are manufactured in Austria using the highest quality components and excellent technical quality.



**Software JobControl:** The JobControl software program has been developed to be easy to use and highly effective. It includes various performance-enhancing features and is intuitively user-friendly. Whether you are a beginner or an experienced user, Trotec's JobControl software makes your daily laser work easier and supports you with perfect results. In addition to being easy to use, JobControl also offers a number of smart functions that will increase your success even more. For example, two-way communication, JobTime Calculator, tags, vector sorting, job preview, material database, etc.

**Optional integrated filter system:** A powerful extraction system is absolutely essential for the continuous safe operation of your laser machine. Trotec offers a wide range of Atmos exhaust systems that can be used with the Speedy 300 for any type of laser application. All extractors can be fully controlled using the JobControl software, including automatic shutdown when the laser is not working. Automatic airflow control ensures consistent filtration for consistent results.



## Speedy 300 – Properties

	<b>Autofocus</b> Electro-optical autofocus with light barriers. Maximum operator comfort thanks to the correct focus of the laser beam on the product surface.
	<b>Air Assist</b> Prevents flaming of flammable materials, helps direct dirt and fumes toward vents, and protects the lens. Fully controllable with JobControl software.
	<b>Honeycomb cutting table</b> This table is used for cutting because it minimizes burning and melting on the back of the material by reducing the reflection of the beam from the table. Air and smoke are fed into the honeycombs, helping to keep the system cleaner. Includes rulers and mounting brackets for precise placement in the work area.
	<b>Vacuum table</b> Thin and light materials that usually cannot be easily fixed on a work table can be easily engraved or cut when used with a vacuum table (e.g. foils, plastic laminates, veneers, paper, ...).
	<b>JobControl® Vision</b> Extremely accurate registration and cutting path compensation system incl. digital USB camera that can be controlled by laser software. With the help of registration marks, it recognizes deformations in printed materials and adjusts the cutting path. This is indispensable in the printing industry, in the production of keyboards from plastic foil or in the treatment of some acrylic objects.
	<b>JobControl® Cut</b> With JobControl Cut, cutting geometries can be easily processed and optimized without having to change the original geometry again in the graphics program. A separate license key is required for use.
	<b>Rotary attachment</b> The rotary attachment enables the engraving of cylindrical, conical or spherical objects such as glass, trophies, mugs or bottles.
	<b>Harsh environment protection kit</b> Protecting dust-sensitive components such as motors and electronics is essential to the reliable operation of your laser system. This is ensured by the unique InPack Technology. The increased dust protection also protects axes from dust. It offers additional protection and is recommended for pollution-intensive operations such as stamps or woodworking.
	<b>Lenses</b> Different applications require different lenses to achieve the best possible result. The Speedy 300 can be equipped with 1.5", 2.0", 2.0", 2.5" and 4.0" lenses for CO2, 2.85" flexx and 3.2" and 5.0" for fiber laser.

# Technical data Speedy 300



	Speedy 300 CO <sub>2</sub>	Flexx
Working area (W x D)	726 x 432 mm	726 x 432 mm
Max. height <sup>1</sup> of workpiece	200 mm	200 mm
Loading area (W x D)	795 x 440 mm	795 x 440 mm
Overall dimensions (W x D x H)	1130 x 943 x 1054 mm	1130 x 943 x 1054 mm
Max. engraving speed	3.55 m/s	3.55m/s
Max. acceleration	50 m/s <sup>2</sup>	50 m/s <sup>2</sup> *
Motion system technology	Brushless DC servomotors	Brushless DC servomotors
Laser power CO <sub>2</sub>	30 - 120 W	60 - 120 W
Laser power fiber		20 - 50 W
Laser class	2	2
Weight <sup>2</sup>	150 kg	215 kg
Power consumption	1 AC 110-230V 50/60Hz, 0.94 kW - 1.8 kW	1 AC 110-230V 50/60Hz, max. 1.4 kW 1 AC 230V 50/60Hz, max. 1.8 kW (100 - 120 W)
<b>Software</b>		
JobControl™	●	●
JobControl™ Vision	○	○
JobControl™ Cut	○	○
<b>Function and Options</b>		
InPack Technology™	●	●
Harsh environment protection kit	●	●
OptiMotion™	●	●
Sonar Technology™		
LED lightning	●	●
Dynamic status display		
Rotary attachment	○	○
Pass-through		
Gas kit	○	○
Air assist incl. integrated pump	●	●
Trolley base	●	●
2 years warranty	●	●
<b>Multifunctional table concept</b>		
Ferromagnetic table	●	●
Aluminium cutting grid table		
Acrylic cutting grid table		
Cutting table with aluminium and acrylic slats		
Vacuum table	○	○
Honeycomb cutting tabletop	○	○
Acrylic cutting grid tabletop	○	○
<b>Lenses</b>		
1.5 inch CO <sub>2</sub>	○	○
2.0 inch CO <sub>2</sub>	●	○
2.0 inch CO <sub>2</sub> "clearance"		
2.5 inch CO <sub>2</sub>	○	○
2.85 inch flexx		●
3.2 inch fiber		○
4.0 inch CO <sub>2</sub>	○	○
4.0 inch CO <sub>2</sub> "clearance"		
5.0 inch fiber		○
<b>Compatible exhaust systems</b>		
	Atmos Cube Atmos Pure 300	Atmos Cube Atmos Pure 300

● Standard

○ Optional

1 For standard lens

2 In depend on laser power