

Speedy 300 120W

Important safety information

- Unsupervised operation of the system is not advised.
- A co2 fire extinguisher must be always on hand as the laser beam can ignite flammable materials.
- Do not store any flammable materials inside the machine or in the immediate vicinity of the machine.
- Some materials are not safe for laser processing. The processing of such material can cause serious risk to health and safety as well as causing damage to the machine. Such damages will void the warranty.
- Never process materials containing the following: carbon, polyvinyl chloride (pvc), polyvinyl butyral (pvb) polytetrafluorethylene (ptfe, teflon®), carbon fiber, beryllium oxide and materials containing halogens (fluorine, chlorine, bromine, iodine and astatine), epoxy-based or phenolic resins.
- Use caution when processing materials or materials containing the following: Manganese, chromium, nickel, cobalt, copper and lead. Any material with the naming addition “flame-retarding” as it may contain bromine.

Trotec is not liable for the processing of any dangerous or harmful materials. It is recommended that you always consult with your material supplier and obtain a material safety data sheet to determine if the material is safe for laser processing.

See your user manual for additional safety information.

Installation environment requirements

- Room temperature is between 15° – 25° c. Avoid higher ambient temperatures and direct sun exposure. Operating outside of these temperatures will reduce the lifetime of the system components.
- Do not install system in a high dust area. Excessive dust will reduce the lifetime of the system components.
- The humidity must not exceed 70% and the temperature must not be close to the dew point.
- Do not install in areas with poor air circulation.
- Do not install in areas that expose the system to mechanical shocks.
- USB Cables longer than 8 feet will not work correctly and may result in cancelled communication with the host
- System should be installed with at least 2 ft of clearance from the wall to allow for proper cooling.

Failure and/or damage resulting from environment are not covered under warranty.

Electrical requirements

- We recommend that the laser system be installed on a dedicated circuit and not to install the extraction system on the same circuit as the laser.
- Noisy or unstable electricity as well as voltage spikes can cause interference and possible damage to the laser system.
- We recommend you get a power line conditioner / surge arrester to improve the lifespan of your laser.
- Fuse protection: do not connect other devices via the laser fuse as the laser system requires the full amperage.

Damages/failures from faulty power will void the warranty.


See below for the electrical specification for your laser system.

Exhaust requirements

- Do not operate the laser system without an adequate exhaust system.
- Inadequate exhaust increases the risk of fire.
- Fumes and dust created during cutting or engraving must be exhausted properly. Some materials when cut or engraved can produce fumes that are hazardous in concentrated amounts. Always consult with your material supplier prior to laser processing.
- The lifetime of optics, mechanical and other system critical components will be reduced by fumes and dust accumulating in the machine. This can be avoided by a capable exhaust system.
- The cutting quality will be reduced by fumes and dust accumulating in the machine. This can be avoided with a capable exhaust system.
- The laser power interacting with the workpiece will be reduced by fumes and dust accumulating in the machine. This can be avoided with a capable exhaust system.

Damages/failures from faulty power will void the warranty.

See below for the exhaust specifications for your laser system

Trotec Laser Model:	Speedy 300					
Wattage:	120 Watt CO2					
Dimensions:	Width:	42.9"	Depth:	35.1"	Height:	41.8"
Weight:	Weight (approx.) 446 lbs					
Electrical Requirements:	Required Voltage:	230v	 receptacle			
	Required Amperage:	20A				
	Plug type:	NEMA 6-20P				
Exhaust Requirements:	Quatro Exhaust system or exhaust fan that has the CFM as described in the manual. Hose connection ports: <ul style="list-style-type: none"> • Exhaust port: 4.0" 					
Minimum Computer Requirements:	<ul style="list-style-type: none"> • Windows 10 or higher • Microsoft .net framework 4.0 • Adobe® reader 9.0 or later • Local administrative privileges (for required software installations) • 16 gb of ram • 80gb of hard disk space • Ghz processor or faster • 1024 x 768 or better monitor resolution • 24-bit color depth graphics card • 2 free usb interface or better • Mouse • Keyboard • Monitor • Vector based graphics software such as corel draw/adobe illustrator/engrave lab or similar 					

If you have any questions regarding the information provided in this document, please contact your local sales representative.