



trotec

Speedy 400 Run on Ruby

Site Preparation
Information

IMPORTANT SAFETY INFORMATION

- UNSUPERVISED OPERATION OF THE SYSTEM IS NOT PERMITTED.
- A CO2 FIRE EXTINGUISHER MUST BE ON HAND AT ALL TIMES 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 ARE NOT COVERED UNDER WARRANTY.
- PROCESSING OF MATERIALS OR MATERIALS CONTAINING THE FOLLOWING IS NOT PERMITTED: 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 59° – 77° F. 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.
 - SYSTEM SHOULD BE INSTALLED WITH AT LEAST 1.5 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

- LASER SYSTEM IS TO BE INSTALLED ON A DEDICATED CIRCUIT. DO NOT INSTALL 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.
- IF ELECTRICAL POWER FLUCTUATIONS, BROWN OUTS OR FREQUENT POWER OUTAGES ARE A PROBLEM IN YOUR AREA OR FACILITY, AN ELECTRICAL LINE STABILIZER, UPS (UNINTERRUPTIBLE POWER SUPPLY) OR BACKUP GENERATOR MAY BE REQUIRED. IF INSTALLING ANY OF THESE DEVICES, BE SURE THEY MEET THE ELECTRICAL SPECIFICATIONS OF YOUR LASER SYSTEM. WE RECOMMEND CONSULTING WITH A LOCAL INDUSTRIAL ELECTRICIAN.
- FUSE PROTECTION: DO NOT CONNECT OTHER DEVICES VIA THE LASER FUSE AS THE LASER SYSTEM REQUIRES THE FULL AMPERAGE.

DAMAGES/FAILURES FROM FAULTY POWER SOURCE IS NOT COVERED UNDER WARRANTY.

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 HAVE TO 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 WILL BE AVOIDED BY A CAPABLE EXHAUST SYSTEM.
- THE LASER POWER INTERACTING WITH THE WORK-PIECE WILL BE REDUCED BY FUMES AND DUST ACCUMULATING IN THE MACHINE. THIS WILL BE AVOIDED BY A CAPABLE EXHAUST SYSTEM.

DAMAGE TO THE SYSTEM CAUSED BY IMPROPER EXTRACTION WILL NOT BE COVERED UNDER WARRANTY.

CLIENT AND NETWORK REQUIREMENTS

CLIENT:

- 64 BIT OS
- MINIMUM SCREEN RESOLUTION: 1920X 1080 (FULL HD)
- CHROMIUM BASED BROWSER (LATEST VERSION OF MICROSOFT EDGE OR GOOGLE CHROME RECOMMENDED)
- MINIMUM 4G RAM
- MINIMUM PROCESSOR i5

NETWORK:

- AVAILABLE **LAN** CONNECTION NEAR LASER
- DHCP ACTIVE (RECOMMENDED)
- 100MB SPEED
- CAT5e OR HIGHER

SEE RUBY NETWORKING DETAILS FOR ADDITIONAL INFORMATION.

DIMS & WEIGHT

Width x Depth x Height (in)	56.2 x 38.5* x 42.2 inch
	* top lid closed, without mounted exhaust hose connections, gas-kit light

Weight (lbs.)	Approx. 770 (dependant on laser power)
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ELECTRICAL SPECIFICATIONS

Laser Wattage	Required Voltage	Fuse	Plug Type
60W-80W Co2 20W-50W Fiber	115v	16A (T)*	NEMA 5-20P
120W Co2 20W – 50W Fiber	208v – 230v	12A (T)*	NEMA 6-20P

EXHAUST SPECIFICATIONS

Volume Flow [m ³ /h]	Pressure [Pa]	Hose Connection Ports
400	4200	80mm or Standard x 2 100mm upon request