





SAFETY AND PREINSTALLATION ACKNOWLEDGMENT

Congratulations on the purchase of your new r400 laser system! Please read carefully through the following information, initialing each section, sign and return. Once received, our customer service team will provide you with the activation license for your system.

IMPORTANT SAFETY INFORMATION

ALL PERSONNEL INVOLVED IN INSTALLATION, SET-UP, OPERATION, MAINTENANCE AND REPAIR OF THE MACHINE MUST HAVE READ AND UNDERSTAND THE INSTALLATION GUIDE AND OPERATION MANUAL PAYING CLOSE ATTENTION TO THE "SAFETY" SECTIONS AND INFORMATION.

ALL PERSONNEL INVOLVED IN INSTALLATION, SET-UP, OPERATION, MAINTENANCE AND REPAIR MUST BE TRAINED AND INFORMED ABOUT ALL THE FUNCTION AND POTENTIAL DANGERS OF THE MACHINE.

-  DANGER HIGH VOLTAGE INSIDE CAN CAUSE DEATH OR SERIOUS INJURIES. LASER SOURCE INSTALLATION AND REPLACEMENT SHOULD BE PERFORMED BY TRAINED, QUALIFIED PERSONNEL ONLY! GENERAL ELECTRONIC SAFETY REGULATIONS MUST BE FOLLOWED. DISCONNECT ALL POWER AND WAIT A MINIMUM OF 30 MINUTES BEFORE OPENING THE LASER TUBE. SEE INSTALLATION GUIDE FOR ADDITIONAL INSTRUCTIONS
-  WARNING FIRE HAZARD FROM GAS AND PROCESSING OF FLAMMABLE MATERIALS .
- 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.

ENGRAVERS NETWORK 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 INSTALLATION AND TRAINING GUIDE AND SYSTEM OPERATION MANUAL FOR ADDITIONAL SAFETY INFORMATION.

INSTALLATION ENVIRONMENT REQUIREMENTS



- ROOM TEMPERATURE IS BETWEEN 15° – 25° C. AVOID HIGER AMBIENT TEMPERATURES AND DIRECT SUN EXPOSURE. OPERATING OUTSIDE OF THESE TEMPERATURES WILL REDUCE THE LIFETIME OF THE SYSTEM COMPONANTS.
- DO NOT INSTALL SYSTEM IN A HIGH DUST AREA. EXSESSIVE DUST WILL REDUCE THE LIFETIME OF THE SYSTEM COMPONANTS.
- THE HUMIDITY MUST NOT EXCEED 70% AND THE TEMERATURE 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.
- MAX DISTANCE FROM THE SYSTEM TO THE PC IS 8 FT. TO MINIMIZE COMMUNICATION INTERFERENCE.
- 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

- LASER SYSTEM IS TO BE INSTALLED ON A DEDICATED CIRCUIT. DO NOT INSTALL EXTRACTION SYSTEM ON THE SAME CIRUIT 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 CONTANT POWER OUTAGES ARE A PROBLEM IN YOUR AREA OR FACILITY, AN ELCTRICAL LINE STABILIZER, UPS (UNINTERRUPTABLE 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.

SEE BELOW FOR THE ELECTRICAL SPECIFICATION FOR YOUR LASER SYSTEM.



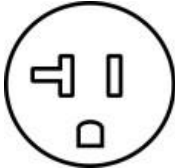

EXHAUST REQUIREMENTS

- 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 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 LIFE TIME 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.

SEE BELOW FOR THE EXHAUST SPECIFICATIONS FOR YOUR LASER SYSTEM.

rayjet

Model:	R400					
Wattage:	60 Watt					
Dimensions:	Width:	61.02"	Depth:	42.52"	Height:	42.52"
Weight:	Weight (approx.) 660 lbs.					
Machine Electrical Requirements :	Required Voltage:	110-120v	 <p>Picture to left shows proper electrical receptacle</p>			
	Required Amperage:	20A				
	Plug type:	NEMA 5-20P				
Chiller Electrical Requirements	Required Voltage:	110-120v				
	Required Amperage:	15A				
	Plug type:	NEMA 5-15P				