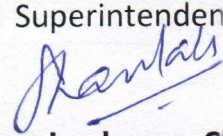




Central Skill Training & fabrication facility (CSTF) INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Guidelines to process the work order in CNC Laser cutting machine

1. Acrylic/other grades of plastics up to 10mm thick, plywood up to 8mm thick, and soft wood up to 15mm thick can be cut in Laser cutting machine and also engraving can be done on above materials. The work will be carried out through online CSTF Work request system.
2. The Laser Cutting machine is preferably used for fabrication activities of research scholars and students' experimental set-ups. The use of Laser Cutting machine for research experiments is limited to separate slots.
3. The Laser Cutting machine settings are not allowed to change beyond operating range. Only recommended materials are allowed.
4. Any demonstration of the Laser Cutting machine needs prior permission from CSTF in-charge
5. Since the Laser Cutting machine is very delicate, only operation under supervision of CSTF staff is allowed.
6. Usage charges for Research scholars and Students involved in their Academic related activity: The charges for consumables and maintenance should be transferred by the departments to CSTF DDF account in ICSR at the rate of Rs. 500/hour.
7. Usage charges for project related work: The charges for using the Laser Cutting machine should be transferred by the project coordinator to CFF project account in ICSR at the rate of Rs. 600/hour. (Slots may be allotted after normal working hours, if not available in normal working hours)
8. Usage charges for Start-up companies: The charges for using the Laser Cutting machine should be paid as DD or transferred the bank account of 'The Registrar, IIT Madras' at the rate of Rs. 800/hour. (Slots may be allotted after normal working hours, if not available in normal working hours)
9. Addition to above charges, post processing/assembling charges may apply @Rs.300/hour.
10. For any queries related to technical specifications and clarifications of job shall be contacted Mr. M. Gajendran, Technical Superintendent, Carpentry shop, CSTF.


The Professor in-charge, CSTF

प्राध्यापक प्रभारी / Professor Incharge
सीएसटीएफ / CSTF
भारतीय प्रौद्योगिकी संस्थान मद्रास
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Central Skill Training & fabrication facility (CSTF)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Technical specifications of 9060 CO2
LASER CUTTING MACHINE

Specifications	Details
Machine Model	MLS-9060
Laser type	Domestic CO2 glass sealed laser tube
Laser power	100W
Working area	600 X 900 mm UP and Down table
Line Engraving Speed	0-1500mm/s
Line Cutting Speed	0-800mm/s
Repeatability	±0.05mm
Moving System	CNC control unit
Cooling mode	Water – cooling and protection system
Working Voltage	220±10% 50HZ
Whole power	1250W
Operating temperature	0 °C - 45 °C
Operating humidity	5% - 95%
Control Software	Original MLS laser software
Graphic format supported	BMP PLT AI DXF DST
Net weight	200Kg.
Gross weight	200Kg.