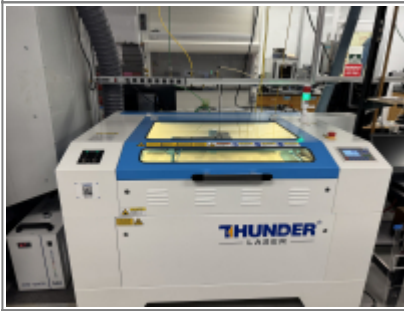


Thunder Laser Nova 35 100W Laser Cutter

Nova35 100W



Tool Type: Laser cutter

Location: Elings 3430

Description: Laser cutter and engraver

Manufacturer: ThunderLaser USA

About

The Nova35 is a 100 Watt CO2 laser cutter with a 60cm x 90cm (23.6" x 35.4") bed. It requires training to use, as well as an FBS reservation. Three different cutting heads are available for use: The standard 2" head for most applications, a 4" head for cutting materials thicker than 10mm (0.4"), and a high resolution head for cutting & engraving the finest features. [More info about laser cutter head selection and installation here.](#)

This laser cutter uses a software package called Lightburn for both layout and cutting. Through this software, you can control almost every aspect of the laser cutter. These instructions will help you perform a basic cut or engraving. For additional information, [please look through the Official Lightburn Documentation.](#)

Safety Concerns

This machine uses a class 4 carbon dioxide (CO2) laser that emits intense and invisible laser radiation. Without safety precautions the direct radiation or even diffuse reflected radiation is dangerous!

- NEVER leave the laser machine alone when running a job. If you do need to leave, make sure there is someone else nearby who is aware that it is on and cutting.
- The machine door must be left open while you are away.
- Do not store any flammable materials in the inside of the device or in the immediate vicinity of the device.
- Remove leftovers of previously produced materials before running a job.
- A fire extinguisher/fire blanket must always be handy as the laser beam can ignite flammable materials.
- Metals, particularly un-coated aluminum, copper in particular, silver and gold, cannot be

processed with the laser and lead to high reflections of the laser beam.

- Before processing materials the user must verify whether harmful materials can be generated and whether the filter equipment of the exhaust system is suitable for the harmful materials.
 - PVC (polyvinyl chloride) must under no circumstances be processed with the laser.
 - Looking directly into the laser can cause retinal damage.
 - Confirm that the fume collection system is running whenever the laser is cutting or engraving.
 - Ensure that the air-assist is working properly before firing the laser. If the air assist is malfunctioning, the laser cannot be safely operated.
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Training Documentation

[Laser Cutter Training SOP](#)

Detailed Specifications

- Working area (W x D): 90 cm x 60 cm or 35.4" x 23.6"
 - Max. height of workpiece : 230 mm or 9"
 - Overall dimensions (W x D x H): 1500 x 1105 x 1040 mm or 59.1" x 43.5" 40.9"
 - CO2 Laser power: up to 100W
 - Laser class:4
 - Weight: 310 kg or 680 lb
 - Power consumption: 1 ~ AC 110-230V 50/60Hz, 1.3 kW (60 watts)
 - Resolution: 500 DPI standard, 1000 DPI with High-Res head
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Reference Documentation

[Marking Tape/Paint](#)

[Bonding Acrylic with Methylene Chloride](#)

[Add Nova35 Manual](#)

[Laser cutting data](#)

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