

THUNDER LASER NOVA 24

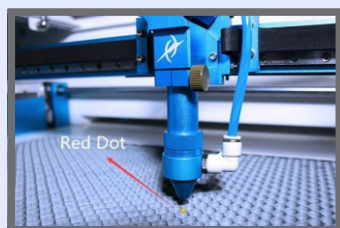
40w CO2 Laser Engraver

600 x 400mm working area
Pass-through door design
Fire detector fitted
High resolution engraving
3D engraving
Great software interface easy to use
12 month warranty on parts
6 month warranty on laser tube and lens

High quality parts
High speed hybrid motors (no loss of steps)
Motorised Z axis table
Red dot pointer
Parts readily available
NZ-wide backup and support
Steel framed legs included

CONTACT US FOR PRICING

STANDARD FEATURES



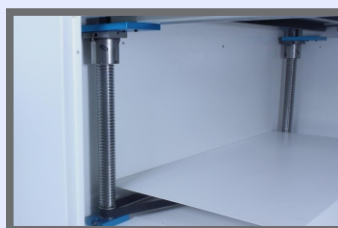
Visible Red Dot Pointer

See exactly where your laser will cut and engrave



Emergency Stop

Cuts power to the entire machine immediately



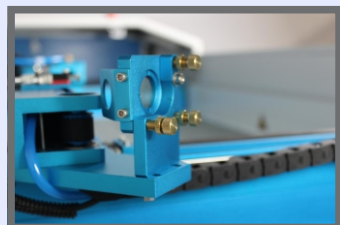
Z Axis work table

155mm of depth



Safety interlock

The laser cannot run with the lid open



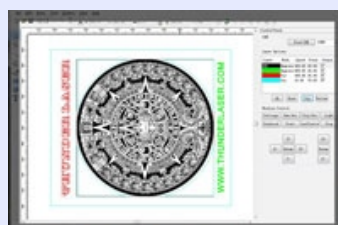
Beam adjustment

Fine pitch adjustment for the mirrors to maintain perfect beam alignment



LCD control panel

Simple operation, files saved in the controllers memory



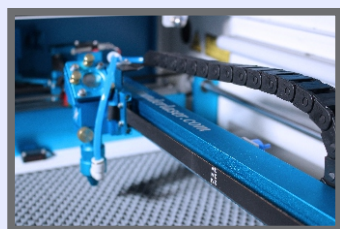
RDworks software

Easy to use, excellent training videos available at Thunderlaser.com



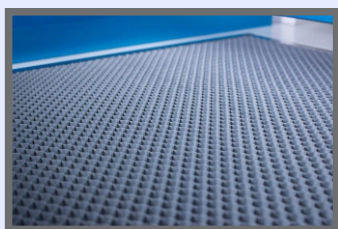
Industrial water cooling

Keeps the laser tube temperature regulated



High quality X & Y rails

Faster speeds and high quality results with vector cutting and raster engraving



Honeycomb table

Great for cutting small parts, allows you to use magnets to hold bendy materials down flat.



3D raster engraving



Smart Board

Programable timed relay control of the extraction fan and air assist.



SPECIFICATIONS

Laser tube wattage	40 watts
Laser type	Sealed CO ² Glass Laser Tube
Cooling	Radiator type water cooler unit, maintains water temp within the laser tube to the ambient air temperature
Work area	600 x 400mm
Z axis work height	up to 155mm
Max part size	Front door closed 700 x 530mm x 170 Pass-through door 700 x unlimited length x 15mm
Table size	700x 530
Dimensions (WxDxH)	1070x 790x 1100mm on steel stand with castor wheels
Motion control system	high-speed closed-loop hybrid encoded motors
Maximum speed	1000mm/S(40 IPS)
Speed and power control	Computer or manually controlled speed and power. Layer colour allocation sets speed, power and cut order
Software	RDworksV8 - simple to use, excellent simulation and time estimate function, accepts AI, DXF, BMP, JPG, TIF and many more formats
Operating modes	Raster (engraving) & vector (cutting)
Resolution	User controlled, up to 1000 DPI (expressed in millimeters)
Computer interface	USB port and Ethernet connections available
PC operating system	Windows XP/2000/Vista/7/8/10, 32 and 64 bit.
Display panel	3" LCD showing current file, total working time, power and speed
Net weight	130kgs
Electrical requirements	240 volts, 50 Hz, single phase
Extraction	1x extraction fan supplied (approx 500m3 p/hr), 5m of PVC flexi duct supplied. Output vent is 145 mm OD.

OPTIONAL EXTRAS

Rotary axis, engrave on round / cylindrical items.	\$640.00 +GST
For cutting timber materials thicker than 9mm more air pressure than the small diaphragm air pump can provide is required. It must be oil and moisture free.	
Oil free air compressor with moisture trap and regulator 0.75 kW	\$375.00 +GST
Oil free air compressor with moisture trap and regulator 1.1 kW	\$700.00 +GST
HR Head (For high resolution engraving)	\$325.00 +GST
Upgrade to 60w	\$500.00 + GST
Steel stand to raise top of machine to 1100mm height	Was \$250.00 +GST, now included
Wattage upgrade increases the width of the machine to 1400mm, and is available only at the time of purchase. Costs include additional shipping (increased volume), installation, wiring, and extra components all fitted at the factory. There are a number of additional components and changes required - it is not just a difference in the cost of laser tubes.	

MATERIALS

*The Thunder CO² laser will cut and engrave the following materials:

Timber, cloth, leather, felt, acrylic, PE and PP plastics, laserable plastics - dual layered, paper, laserable rubber and more.

The RDworksV8 software comes with a parameter library with some basic parameters for cutting various thickness materials. The parameter library is specific to laser tube wattage.

*Engrave only:

Anodised aluminium, various metals (with the correct Thermark treatment) and glass.

* Note that not all materials are consistent and results may vary

* Cutting or engraving PVC, soft PVC film or vinyl made with a PVC content is not recommended due to corrosive and poisonous exhaust gases.

FEATURES

Red dot pointer
2" standard lens
Motorised Z axis table
Honeycomb cutting table
Pass-through door
Air assist (small diaphragm pump)
Extraction fan
Easily adjustable home position
LCD display
3D engraving
Grayscale photo engraving
Water protection
Emergency stop
Open cover protection
Radiator type water cooling
RDworksV8 software
Basic parameter library

BASE PRICE

NZD \$11,500.00_{gst}
VALID FOR 30 DAYS

Local transportation and hiab charges may apply depending on distance from a local port.

Installation, commissioning and basic training is available from \$800 + GST and travel expenses.

Upgrade your order to include spare parts. Buy your own insurance by including spare parts and save downtime and headaches. Available from \$1550 + GST. This is only available if ordered with your purchase, taking advantage of combined shipping.