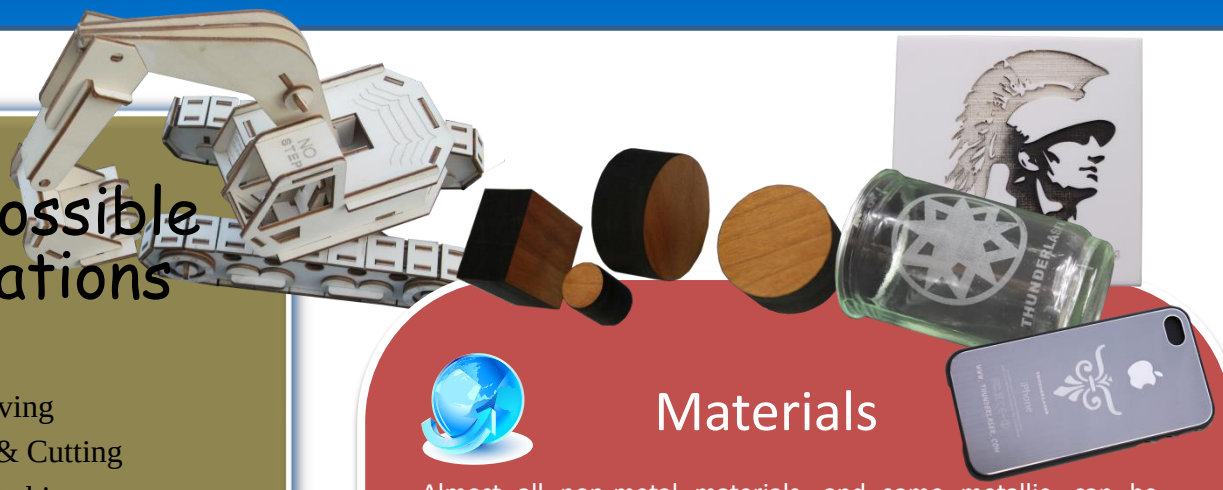
LASER CUTTING AND ENGRAVING SYSTEMS

NOVA51

- 1000mm/s
- Servo Motors
- Auto focus
- 1300x900mm working area
- Super Smooth Cutting Quality
- Red Dot And Alarm Lamp
- Motorized Table
- Energy Saving

THUNDER LASER

Possible Applications And Materials



Some Possible Applications

- Electronics Engraving
- Wood Engraving & Cutting
- Marble & Stone Etching
- Glass Etching
- Corporate Giveaways
- Acrylic & Wood Signage
- Wedding Memorabilia
- Nameplates & Desk sets
- Appliqués
- Toys & Games
- Wooden Models
- Photo Albums
- Holiday Decorations
- Laser Cut Cards & Invitations
- Custom Jewelry
- Corporate & Sporting Awards
- Acrylic Plaques
- Photo Frames
- One-of-a-Kind Gifts
- Engraved Mirrors
- Architectural Models
- Custom Pet Tags
- Inlaid Signage
- 3D Models
- Engraved Denim Jeans
- Photo Engraving
- Barcode Engraving
- Logo Engraving on Parts
- Tool Identification
- Medical Part Marking
- Laptop & MP3 Player Customization
- And many other possibilities !

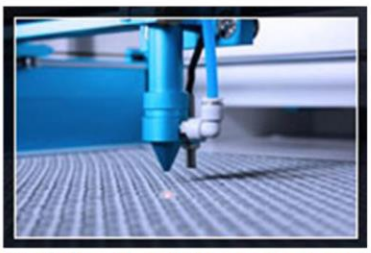
Materials

Almost all non-metal materials, and some metallic, can be engraved and/or cut by using a Thunder Laser System. Below is a selection of them. (See notation for metals)

	Engrave	Cut
Wood	√	√
Acrylic	√	√
Delrin	√	√
Cloth	√	√
Leather	√	√
Mat Board	√	√
Melamine	√	√
Paper	√	√
Mylar	√	√
Pressboard	√	√
Rubber	√	√
Wood Veneer	√	√
Fiberglass	√	√
Plastic	√	√
Cork	√	√
Corian	√	√
Twill	√	√
Anodized Aluminum	√	
Painted Metals	√	
Tile	√	
Glass	√	
Coated Metals	√	
Ceramics	√	
Marble	√	
Stainless Steel	*	
Brass	*	
Titanium	*	
Bare Metal	*	

* If you need to mark on bare metal directly, please contact us for more information.

Features

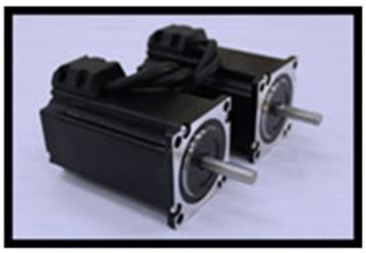


Visible Red Dot Pointer

Make the laser beam "visible".

Alarm Lamp

Show the work state and tell when the job is done, more safe for you.



Servo System

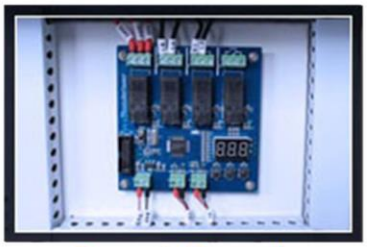
1000mm/s speed for engraving photo, super smooth vector cutting quality.

Open flap protection

Laser will stop working if you open the front cover.

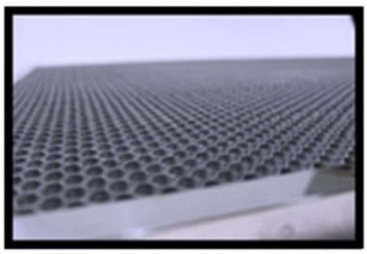
Emergency stop

Turn off the machine immediately when there is an accident.



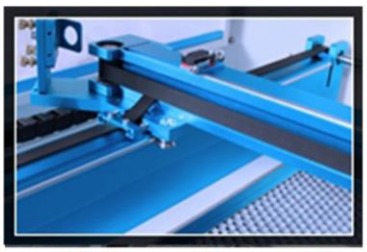
Smart Board

Control the exhaust fan,air assist,and alarm lamp automaticly,energy saving.



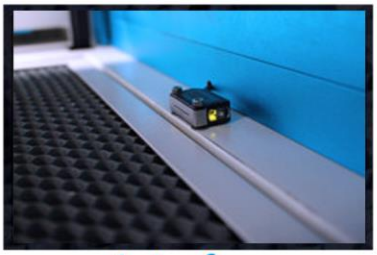
Honey comb table

Allows the laser beam to pass through the material you are cutting and reduces underside reflections.



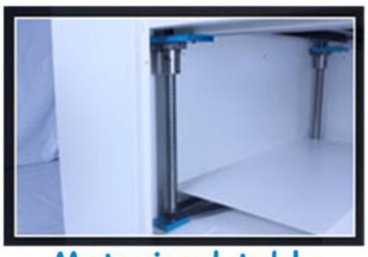
High quality rails

Keep the engraving/cutting precise and very durable.



Auto focus

Help the user to set the focus Easier. (based on motorized table).



Motorized table

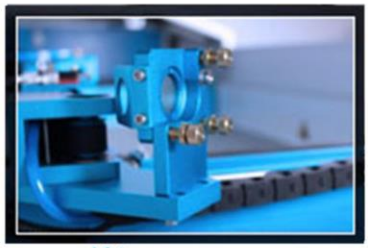
Control the table up/down from LCD panel directly.

LCD panel

Set speed, power, and more directly from the LCD panel.

Color mapping

Change the working speeds and power by using color settings.



Mirror mount

Easily re-adjusting 3D mirror mounts.

Water protection

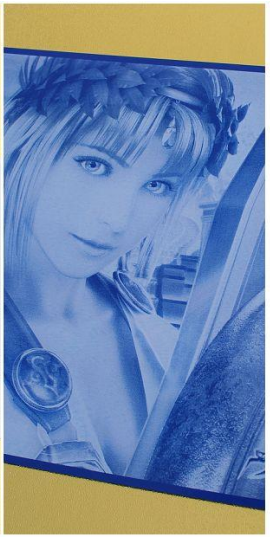
Laser will stop working if the water cooling system is not working.

3D engraving

Engrave high quality 3D photos directly.

Samples

What can you create?



Technical Specifications

Optional Items

Water Chiller

Rotary Axis

HR Head

Laser Tube Wattage		100-130Watt
Laser Type		Sealed Co2 Glass Laser Tube
Cooling		Water Cooled
Work Area		1300x900mm(51.2”x35.4”)
Max Part Size (WxLxH)	Front door closed	1400x1030x250mm(55.1” x 40.6” x9.0″)
	Pass-through door	1400x∞x20mm(55.1” x ∞” x0.8″)
Table Size		1400x1030mm(55.1” x40.6”)
Z Axis Height		230mm(9.1″)
Dimensions(WxDxH)		1900x1405x1040mm(74.8” x 55.3” x40.9”)
Motion Control System		High-Speed Servo Motors
Maximum Speed		1000mm/S(39.4IPS)
Speed and Power Control (engraving depth)		Computer or manually controlled speed and power from 0-100%. Vector color mapping sets speed and power settings using RGB color mapping.
Operating Modes		Optimized raster, vector, and combined mode
Resolution(DPI)		User controlled from 100 to 500DPI(standard laser head), up to 1000 DPI(HR head)
Computer Interface		Ethernet and USB Connection
Compatible Operating Systems		Windows XP/2000/Vista/7/8/10
Buffer Memory		128MB Standard
Display Panel		3” LCD panel showing current file, total working time, laser power, speed etc.
Net Weight		325kgs(717lbs)
Electrical Requirements		110 to 240 volts, 50 or 60 Hz, single phase
Ventilation System		Integral exhaust fan.There is 1 output port, 5.7" (145 mm) in diameter in the rear of the case.
Standard Features		Servo system,alarm lamp, Smart board,Red dot pointer, Auto focus, Motorized table, Pass-through Door, Air Assist, Water pump ,Exhaust fan, HoneyComb Table, 2" (50.8 mm) Focus Lens, Easily adjustable Home position, LCD Display,”No water” protection, Emergency stop, Open cover protection
Optional Features		
High Resolution Head		Increase the resolution up to 1000DPI
Rotary Axis		Use to engrave on round items
Water Chiller		Improve the cooling of laser tube

Thunderlaser

Company Address: No.197, Hudong Road,Shatian Town,Dongguan City,Guangdong Province,China

Tel: (86)769 82665376
Service Email: sales@thunderlaser.com
tech Email:tech@thunderlaser.com

Thanks to Thunder laser systems lasering has become so easy

Tel:(86)769 82665376
Service Email:sales@thunderlaser.com
Tech Email:tech@thunderlaser.com
Website:www.thunderlaser.com