## LASER CUTTING AND ENGRAVING SYSTEMS



# 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

Appliqu és

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** 

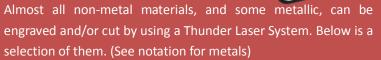
Medical Part Marking

Laptop & MP3 Player Customization

And many other possibilities!



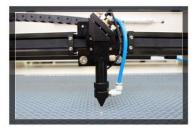
#### **Materials**



	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	$\checkmark$	
Ceramics	√	
Marble	√	
Stainless Steel	*	
Brass	*	
Titanium	*	
Bare Metal	*	
* If h.		C C

<sup>\*</sup> 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.



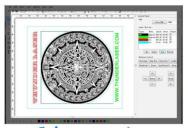
Auto focus
Help the user to set the focus
Easier. (based on motorized
table).



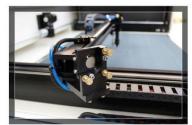
Motorized table
Control the table up/down from LCD panel directly.



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.



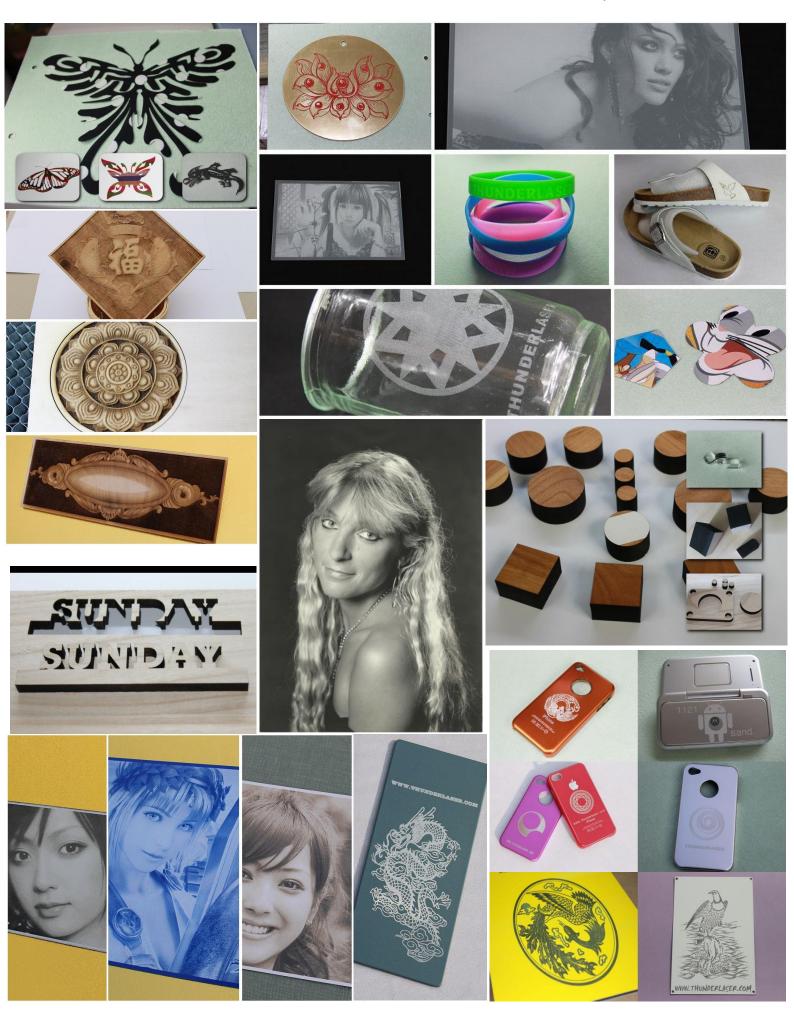
Water protection
Laser will stop working if the
water cooling system is not
working.



3D engraving
Engrave high quality 3D photos directly.

# Samples

What can you create?



# **Technical Specifications**

### **Optional**







**Items** 

Water Chiller Rotary Axis HR Head

1101	Water	Chiller Rotary Axis	
Laser Tube Watta	age	80-100Watt	
Laser Type		Sealed Co2 Glass Laser Tube	
Cooling		Water Cooled	
Work Area		900x600mm(35.4" x 23.6")	
Max Part Size	Size Front door closed 1000x730x270mm(39.4" x 28.7"x10.6")		
(WxLxH)	Pass-through door	1000x∞x30mm(39.4" x ∞"x1.2")	
Table Size		1000x730mm(39.4" x 28.7")	
Z Axis Height		230mm(9.1")	
Dimensions(WxDxH)		1450x1085x1105mm(57.1" x 42.7" x43.5")	
Motion Control System		High-Speed Servo Motors	
Maximum Speed		1000mm/S(39.4IPS)	
Speed and Power Control		Computer or manually controlled speed and power from 0-100%. Vector color	
(engraving depth)		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 Interfa	ice	Ethernet and USB Connection	
Compatible Oper	rating Systems	Windows XP/2000/Vista/7/8	
Buffer Memory		128MB Standard	
Display Panel		3" LCD panel showing current file, total working time, laser power, speed etc.	
Net Weight		230kgs(507lbs)	
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, Water protection, Emergency stop, Open cover protection	
Optional Feat	ures		
High Resolution	Resolution Head Increases the resolution up to 1000DPI		
Rotary Axis		Used to engrave on round items	
Water Chiller keep the laser power stable at		keep the laser power stable and prolong life time of the laser tube	









# 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