



## MY-L3040HS High-speed Laser Engraving Machine

### Application

**WISELY 3040HS** laser engraving machine is mainly used to engrave non-metal materials, such as leather, fabric, textile, cloth, paper and so on. Of course, this machine can work with Acrylic, Bamboo products, Plastic, Marble, Glass, Woods, PVC, etc.

It can process the plexiglas products, acrylic display panel lenses, wood carving, wood percutaneous flowers, advertising products, crystal characters, packing boxes, models, toys, furniture and so on.

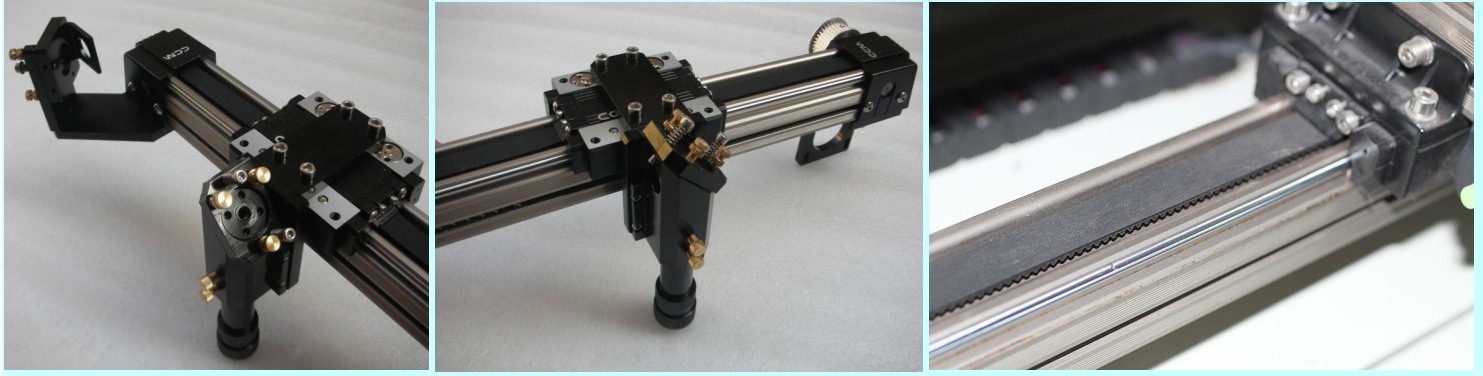
### Technical Parameter

	<p><b>This machine with 2-carriage-structure is with very small laser dot, which is mainly designed for Non-metals laser engraving.</b></p>
<b>TYPE</b>	<b>MY-L3040HS</b>
Working Area	300*400mm
Laser Power	25W
Laser Type	Sealed Yongli Glass CO2 laser tube--the best made in China
Transmitting Parts	Timing Belt from Fulon
	High-speed Guiderail
Drive Type	LeadShine Stepper Driver and Motor--the best made in China
Default Software / Controller	DSP 6585 Controller from Leetro
Max. Corner Acceleration	6000mm/s
Recommended Corner Acceleration	Less than 3500mm/s, we suggest you to use different Corner Acceleration for different materials
Protecting Sensor	from Japan Omron
Max. Engraving Speed	1200mm/s
Mechanical Vibration in process	0.1 ~ 0.6
Positioning Accuracy	≦0.01mm
Max. Forming Character	English:1.5 x 1.5mm
Power Supply	220V±10% 50HZ or 110V±10% 60HZ
Software Supported	ArtCut, CorelDraw, PhotoShop, AutoCAD
Graphic Format Supported	PLT, DXF, BMP, JPG, GIF, PGN, TIF and so on
Working Table (DEFAULT)	Fixed Honeycomb Table
Machine Color	White Blue
1 Air Pump and 1 Water Pump	Yes
Exhausting System	Yes
Gross Power	<1200W
Net Weight	80 KG
Gross Weight	130 KG
Package Size	1010*950*880mm
Operating Temperature	0℃-45℃
Operating Humidity	5%-95% Free of condensed water
Recommended Spare Parts	Lens, Mirror, Laser Tube, Laser Power Supply



## Why Wisely Laser?

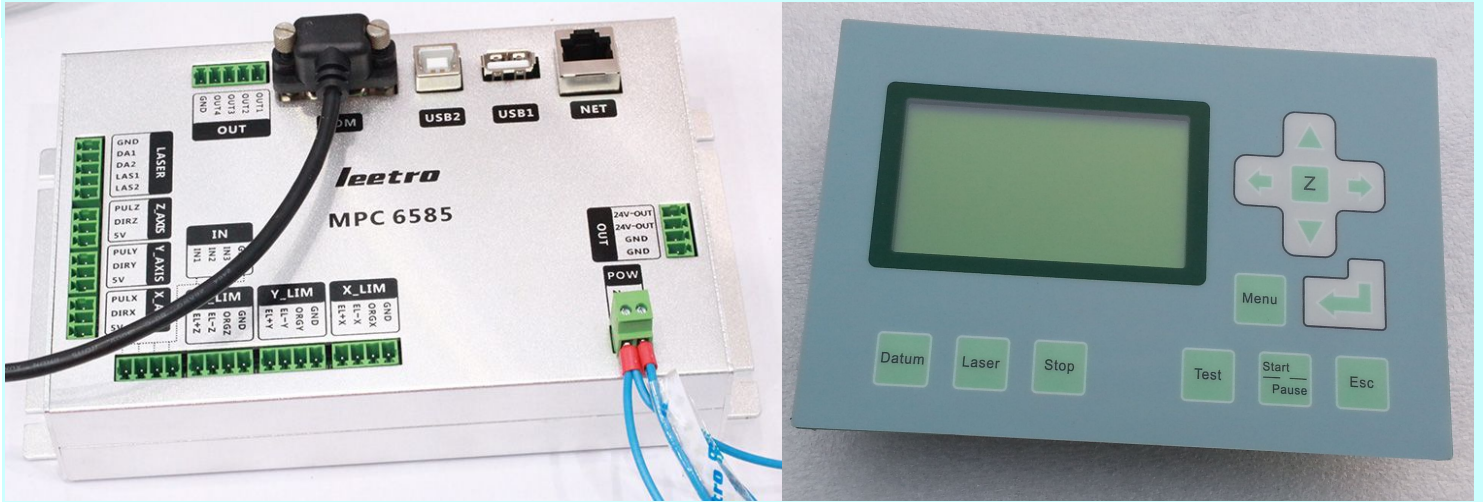
1. We use the high-precision, high-speed and low-shake guiderail.



## Why we choose the high-speed guiderail?

1. Light weight.
2. Low mechanical vibration.
3. Small resistance

2. We use the most advanced and latest version DSP Controller made by Leetro.



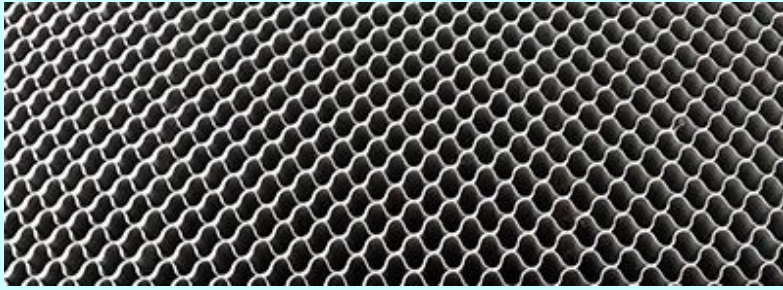
## Why we choose 6585 controller, not 6565, 6535, 6525 or 6515 controller?

1. Can guarantee the smooth cutting edge under the premise of high-speed cutting.
2. The control system supports Windows XP/7/8 32/64 bits.
3. To supports USB and NET port. By using NET port, the operator can use one computer to control many sets of machine by setting different IP for each machine, very suitable for factory production.
4. Virtual Printer Driver Mode, it can support CorelDraw 11, 12, X3, X4, X5, X6 direct output.
5. To support Break-point Resume, Auto-deplane, Auto-feed and Twin-head move.
6. To support PC-downloaded firmware, auto-fit DLL, hardware signal detected.
7. To support Flying cutting, raise the cutting efficiency and quality.
8. Added library, easy to call the regular parameters for the frequently used materials.
9. Higher EFT (Electrical Fast Transient), can work in the complicated environment.

3. We use the high-stability driver and big-torque motor from [www.leadshine.com](http://www.leadshine.com) which is famous throughout the world.



#### 4. Fixed Honeycomb Table



Suitable for Engraving

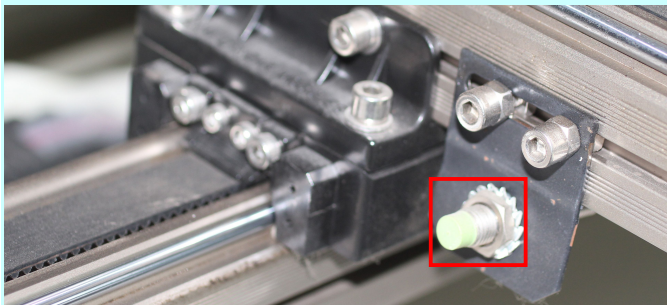
#### 5. Protecting Sensor (Optional Device)

Press here to run the machine



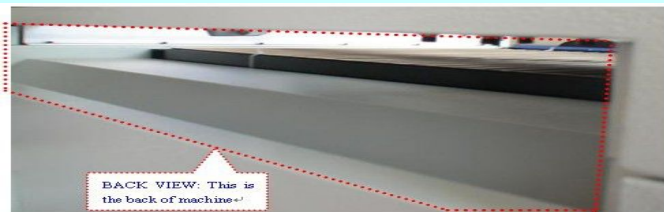
When you close the machine cover, the cover will press the sensor, then the machine will run; This will protect the operator from smoke and laser hurting and it is helpful for the smoke outlet. When you open the cover, the machine will pause and the LED Display will show "Cover Err", then the operator can check the engraving/cutting effect. The "Cover Err" will disappear once you close the cover, then the machine continues working.

#### 6. Limit Switches for X & Y Axis



The limit switch, which are non-contact sensors, prevents the X & Y axis from attempting to go beyond the mechanical limits of the machine.

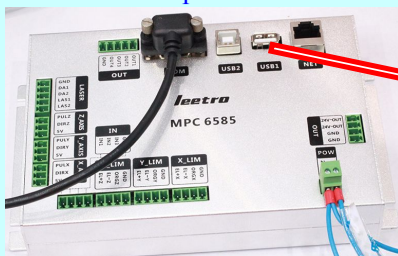
#### 7. Pass-Thru Doors



The machine frame is built with doors that allow materials to extend out the front and/or rear of the machine. This is helpful when engraving or cutting material that can't fit completely inside the machine. The limits are endless.

The max. thickness of material which can go through the door is 30mm.

#### 8. The off-line operation



The machine can work WITHOUT a computer, one flash memory disk can be enough for saving and importing files.



### 9. Castor Wheels



Each machine is equipped with 4 or 6 castor wheels to make it easier to move it around the workshop or office. The Castor Wheels can weigh from 150 kg to more than 1500 kg.

### 10. Blower / Fan / Vacuum



**Machine Back**



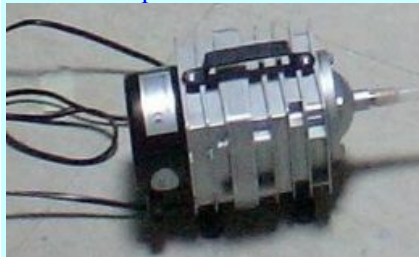
**550W Exhaust Fan**



**Pipe**

The vacuum blower creates an air flow to remove dust and fumes from the work area of the laser machine. It is important to remove the dust and fumes from the laser engraving areas because dust can settle onto the mirrors or lens. Dust on the mirrors or lens will create a focal point of the laser's heat and soon destroying the optics.

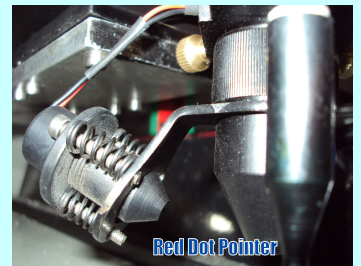
### 11. Air Pump



The air pump is used for three basic reasons:

1. To push fumes away from the laser's focal lens. The contaminants could destroy the lens.
2. To push air into the material's kerf as created by the laser beam. Air that is applied to the kerf will remove debris/fumes and allow the laser light to penetrate deeper through the material.
3. To help to cool the material. If the laser cut/engraved material stays hot, then it could warp or shrink.

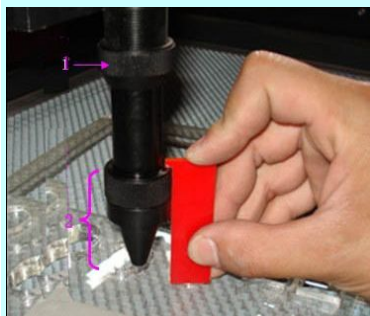
### 12. Red Dot Pointer



**Red Dot Pointer**

At the beginning of your processing work, you don't know where the first laser dot will hit, the Red Dot Pointer will tell you, it can simulate the laser.

### 13. Manual Focus



1. Lock cap      2. Focus distance

You should put the material onto the table before focusing, then to process once you finish focusing, the acrylic piece with machine will help you find the focus distance.

### 14. Lens and Reflecting Mirror

The material of lens and silicon reflecting mirror are imported from Singapore or USA II&VI. The Focal Length is 1.5 or 2 inch, it is suitable for engraving. The Focal Length is 3 or 4 inch, it is suitable for cutting. The reflecting rate of mirror is close to 99.99%.



## Warranty Terms

No.	Spare Parts	Warranty Period (since delivery)	Available for
1	Machine Frame	24 months	1. MY-L4060HS 2. MY-L6090HS 3. MY-L1290HS 4. MY-L1490HS 5. MY-L1690HS 6. MY-L1610HS 7. MY-L1290HSD 8. MY-L1490HSD 9. MY-L1690HSD 10. MY-L1610HSD
2	Control Card (Motherboard)	18 months	
3	25W Laser Tube	6 months	
4	RECI Z2/Z4/W6/W8 Laser Tube	10 months	
5	RECI Laser Power Supply	18 months	
6	Water-cooling Chiller	12 months	
7	Air Pump / Water Pump	12 months	
8	Exhauster	12 months	
9	Reflecting Mirror and Lens	3 months	
10	LED Control Display	12 months	
11	Linear Guiderail	12 months	
12	Switch Power	24 months	
13	Stepper Moter	18 months	
14	Stepper Driver	18 months	
15	Timing Belt	12 months	
16	Red Dot Pointer	12 months	
17	Worktable	12 months	