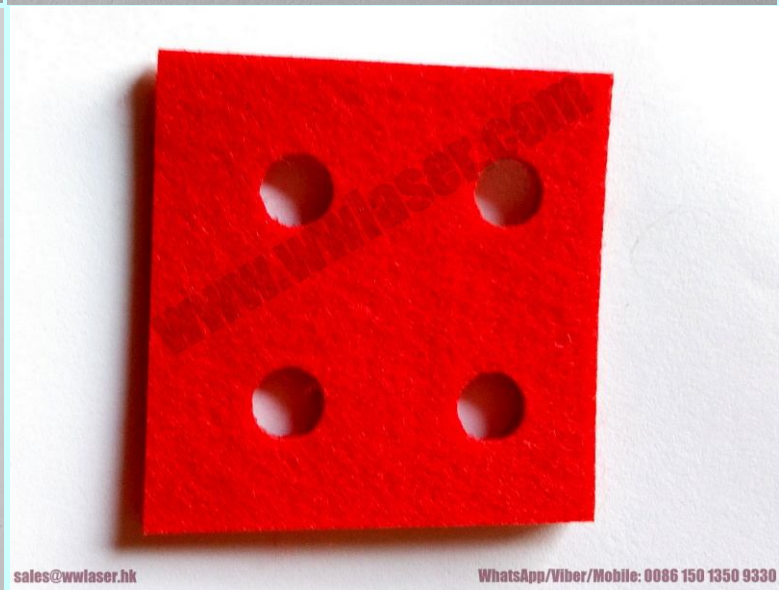




leather, fabric, textile, cloth, paper cutting











## MY-L1290HS/1490HS/1690HS/1610HS High-speed Laser Cutting Machine

### Application

**WISELY 1290HS/1490HS/1690HS/1610HS** laser cutting machine is mainly used to cut thin and soft 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



#### This machine with 3-carriage-structure is designed for:

1. thin & soft material smooth and high-speed cutting, such as leather, fabric, textile, cloth, paper and so on.
2. easier machine move into the house through a small door (the machine can be divided into 2 parts, you can remove the upper part by loosening the screws, turn 90 degree and put it through the door).

TYPE	MY-L1290HS	MY-L1490HS	MY-L1690HS	MY-L1610HS
Working Area	1200*900mm	1400*900mm	1600*900mm	1600*1000mm
Optional Working Area	400*600, 600*900, 1200*600, 1200*1000, 1300*900, 1300*1000, 1400*1000 or others			
Laser Power	90-100W (RECI Z2 laser tube)			
Optional Laser Power	60W / 80W / 90-100W / 100-130W / 130-160W			
Max. Cutting Depth	Max. 20mm Acrylic			
Laser Type	Sealed RECI Glass CO2 laser tube--the best made in China (Lifespan: Max. 10 000 hours)			
Laser Power Supply	Made by Beijing RECI			
Transmitting Parts	Timing Belt from Fulon			
	High-speed Guiderail			
Drive Type	LeadShine 3-ph Stepper Driver and Motor--the best made in China			
Default Software / Controller	LaserCut / DSP Control from Leetro			
Max. Cutting Speed	1200mm/s			
Max. Corner Acceleration	6000mm/s			
Recommended Corner Acceleration	Less than 3500mm/s, we suggest you to use different Corner Acceleration for different materials			
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	Gray White & White Blue			
1 Air Pump and 1 Water-cooling Chiller	Yes			
Exhausting System	Yes			

Gross Power	<1200~1400W			
Net Weight	300 KG	350 KG	400 KG	430 KG
Gross Weight	450 KG	450 KG	630 KG	630 KG
Package Size	2000*1650*1340mm	2180*1650*1280	2380*1650*1280	2380*1650*1280
Operating Temperature	0°C-45°C			
Operating Humidity	5%-95% Free of condensed water			
Recommended Spare Parts	Lens, Mirror, Laser Tube, Laser Power Supply			

### Why Wisely Laser?

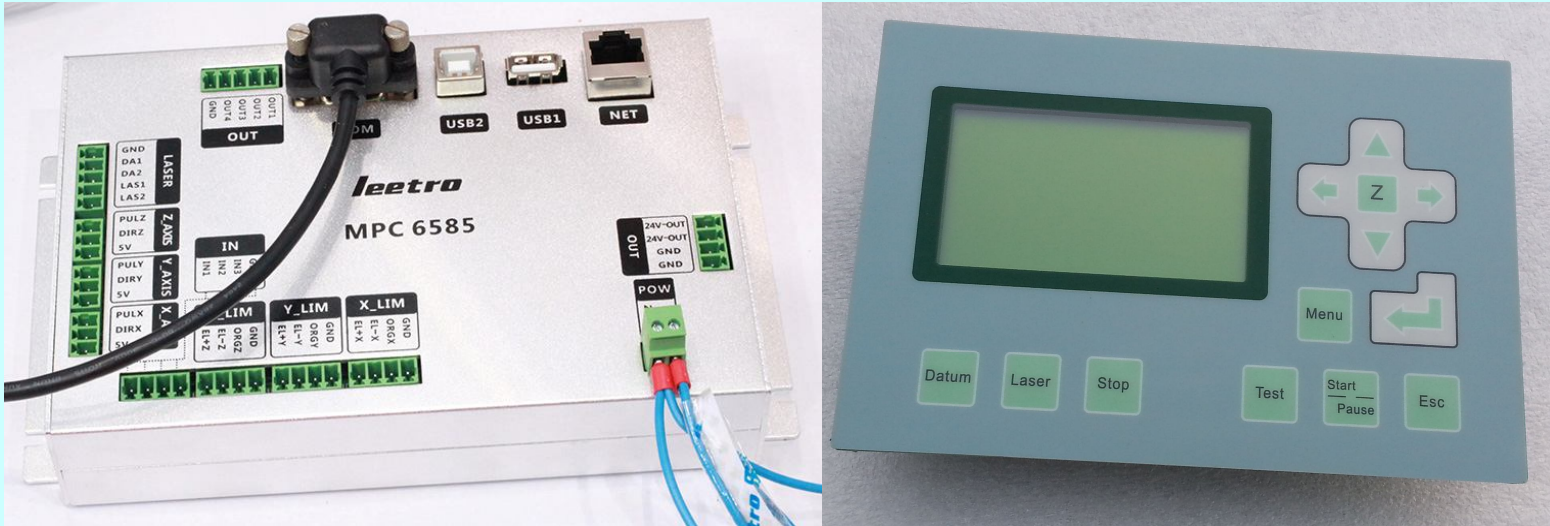
1. We use the high-precision, high-speed and low-shake guiderail.



### 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.

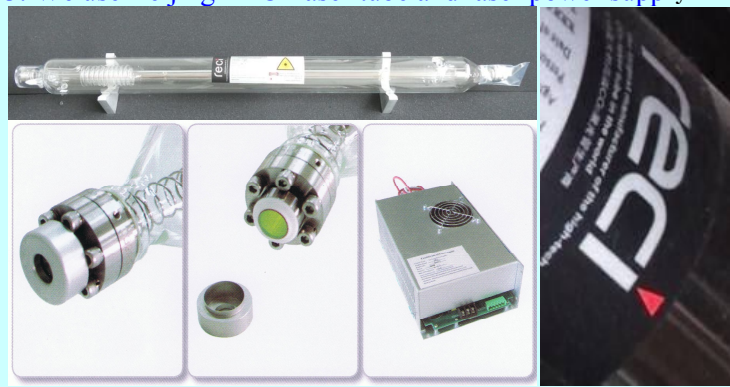


### Why we choose 6585 controller, not 6565, 6535, 6525 or 6515 controller?

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 without 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.



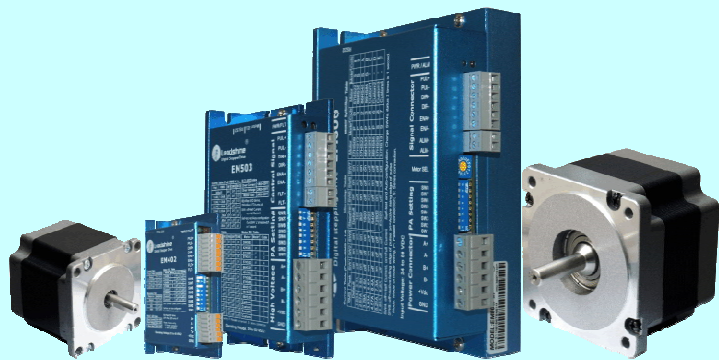
3. We use Beijing RECI laser tube and laser power supply if the power exceeds 80W.



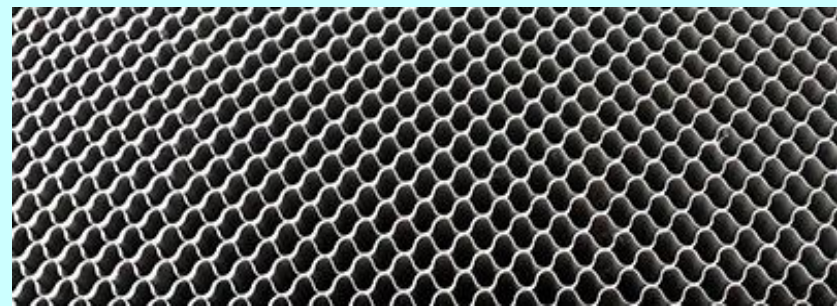
Why we choose RECI Tube?

- 1. Global Warranty - the manufacturer will send the laser tube to you directly.
- 2. Free DHL/UPS/FedEx/TNT freight for tube replacement.
- 3. 10-month warranty period since production date.
- 4. Lifespan of tube can reach 10 000 hours.
- 5. High stability, fine laser beam.

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



5. Fixed Honeycomb Table



For thin and soft material cutting

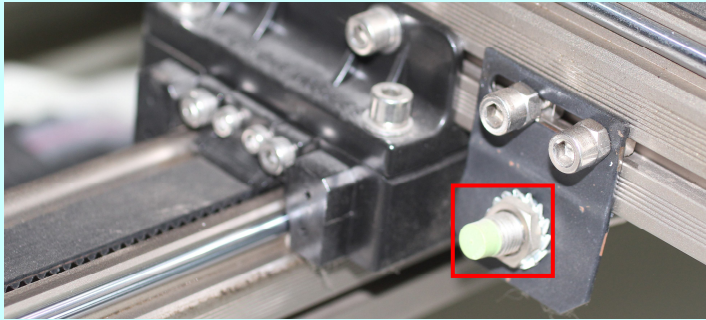
6. Protecting Sensor (Optional Device)

Press here to run the machine



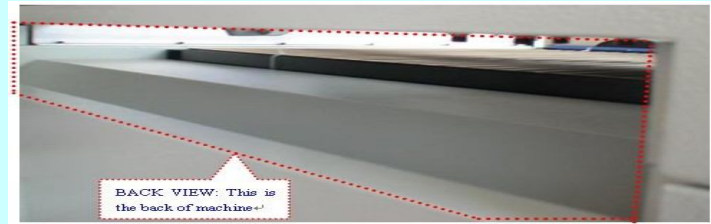
When you close the machine cover, the cover will press the sensor, then the machine will run; This will protect the operator from smoke and laser hurting and it is helpful for the smoke outlet. When you open the cover, the machine will pause and the LED Display will show "Cover Err", then the operator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

7. 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.

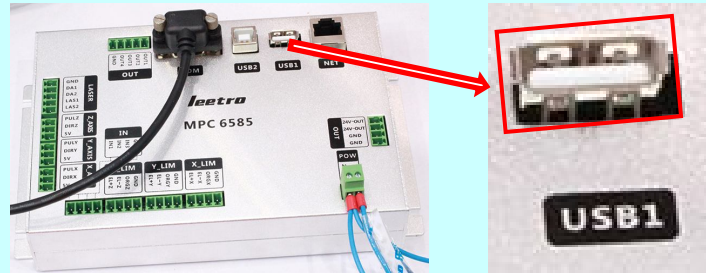
8. Pass-Thru Doors



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.

9. The off-line operation



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

10. 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.

11. Blower / Fan / Vacuum



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.



12. 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.

13. Water-cooling Chiller



CW-3000 - For 60W & 80W laser tube



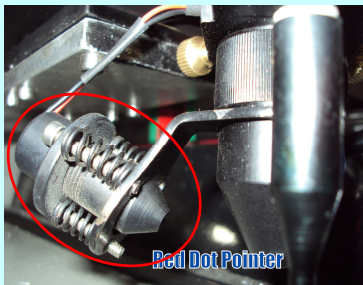
CW-5200 - For single 90-100/ 100-130/130-160W laser tube



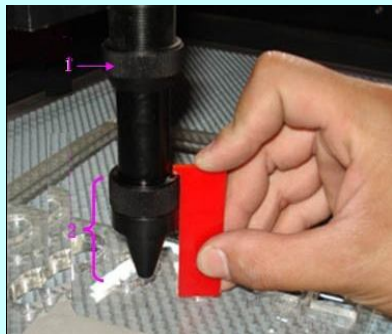
CW-5200 - For dual 90-100/100-130/130-160W laser tubes

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.

14. Red Dot Pointer



15. 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.

16. 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	60W/80W Laser Tube	3 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	

## Laser Tube Cutting Ability

No.	Laser Tube	Material Max. Thickness Accepted	Material Max. Thickness Recommended
1	60W	9mm acrylic	7mm
2	80W	15mm	10mm
3	RECI Z2 (90-100W)	20mm	15mm
4	RECI Z4 (100-130W)	25mm	20mm
5	RECI Z6 (130-160W)	30mm	25mm
6	RECI Z8 (150-180W)	30-40mm	30mm