

Catalog of MY-L4060 Laser Engraver

Application

WISELY 4060 is mainly used to engrave many kinds of non-metal materials, such as Acrylic, Bamboo products, Cloth, Plastic, Marble, Glasses, 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.

Feature

- ◆ 1. High Accuracy--HIWIN/PMI Linear Guide Rail from Taiwan.
- ◆ 2. Four tables: Motorized Up/Down Flatbed Table, Fixed Honeycomb Table, Fixed Flatbed Table and Fixed Knife Table.
- ◆ 3. Online & Offline Operation: To transmit data from PC to machine by USB cable or transmit by Flash Memory Disk.
- ◆ 4. High Rigidity--The thickness of the machine body is 1.5mm, the shape of machine will not change within 30 months.
- ◆ 5. USB 2.0 Interface, Steady and Quick Transmitting Speed, suitable for Desktop PC or Laptop.
- ◆ 6. DSP Control System.
- ◆ 7. Three kinds of software to output data: LaserCut5.3, AutoCAD and CorelDraw.
- ◆ 8. Massive Memory Capacity: Standard allocation of 128Mb inner memory capacity.
- ◆ 9. CE Certificate, ISO9001:2008, FDA.

Technical Parameter



It is specially designed for high-speed engraving and the large extended raising

TYPE	MY-L4060
Engraving Area	600mm*400mm
Laser Power	40w/60w
Max. Cutting Depth	10mm
Laser Tube(life hours)	1000-1800 hours
Max. Engraving Speed	0-1000mm/s
Max. Cutting Speed	0-600mm/s
Positioning Accuracy	≅0.01mm
Laser Type	Glass CO2 Laser Tube
Maximum 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
Water-cooling System	Yes, but one water pump is enough for the machine with 60W laser tube.
Working Table (DEFAULT)	Fixed Honeycomb Table, Fixed Flatbed Table or Fixed Knife Table.
Drive Type	3-ph Stepper Motor
Default controller	LaserCut5.3
Ray Inspection System	Yes

1 laser tube and 1 power supply	Yes
1 lens and 3 mirrors	Yes
1 air pump and 1 water pump	Yes
1 Exhaust Fan	Yes
1 Red Dot Pointer	Yes
1 Transformer for 110v Power	Yes, if necessary
Machine Color (DEFAULT)	It is Black Red. We can paint the machine with your color if your order is big enough.
Computer Required	Memory: 512MB; Hardware: 40GB, OS: XP or VISTA, at least one USB port.
Equipment Dimension	1050mm*750mm*970mm
Package Size	1150mm*850mm*1050mm
Net Weight	150 kg
Gross Weight	200 kg
Operating Temperature	0°C-45°C
Operating Humidity	5%-95% Free of condensed water
Optional Devices	Motorized Up/Down Table, Rotary Attachment and so on.
Recommended Spare Parts	Laser Tube, Lens, Mirror, Laser Power Supply

Why Wisely Laser?

1. We use the high-precision Linear Guiderail imported from HIWIN or PMI in Taiwan.
2. We use the best laser tube and laser power supply made in China, which is from www.recilaser.com.



3. We use the driver from www.leadshine.com which is the most popular manufacturer of driver in China.



4. We use the latest-version motherboard 6535 (NOT 6515) and software LaserCut5.3 (NOT LaserCut 5.1) from www.leetro.com.



5. Our machine adopts 3-ph motors from NOT 2-ph motors, it can ensure the machine to work more steadily and smoothly.



6. Three Softwares for your choice, you can choose one between the three. If you want to choose CDR or AutoCAD, you should install CorelDraw or AutoCAD at first, this system supports CorelDraw11, CorelDraw12, CorelDraw13, CorelDrawX4, AutoCAD over 2000 version.



7. Four kinds of table:

1) Motorized Up/Down Flatbed Table Z (Optional)



Z-Axis Table Height Motor

This motor is used to move the Z-Axis table/surface height. The maximum space available under the laser flying head is about 250mm. This motor moves the height with the simple push of the button. The motor uses a metal chain to turn the four jack-screws, one at each corner of the work table. This metal chain design is superior to all other laser machine table designs that use stepper motors and rubber belts to lift their table. The stepper motors do NOT have the strength to lift a loaded table and the rubber belts are prone to stripping teeth or skipping out of alignment.



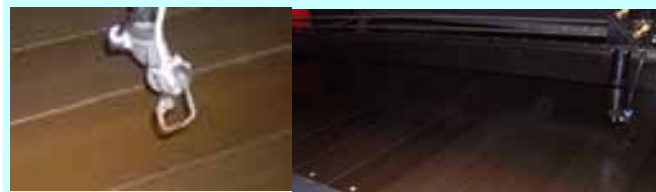
To press buttons "Up" and "Down" to lift and fall the table.



Z-Axis Controller Board

The Z-Axis motor controller board uses Solid State Relays to switch motor on, off and control the direction. The solid state relays are quieter than normal relays, controlled by a smaller power source, and last longer.

2) Fixed Flatbed Table (Default)



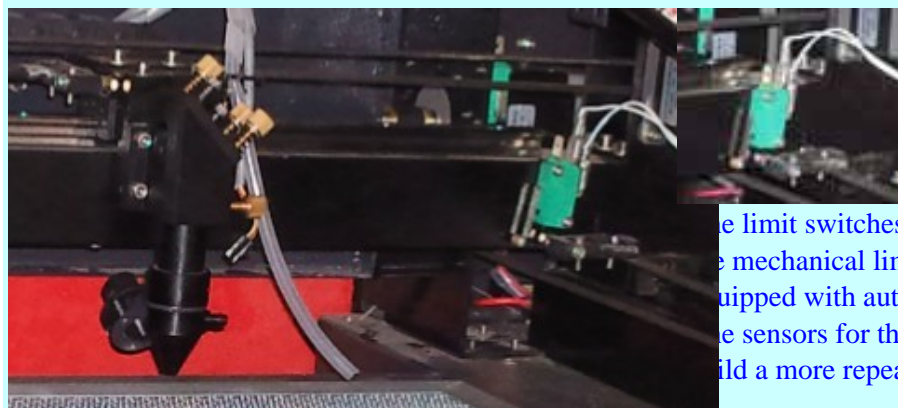
3) Fixed Honeycomb Table (Default)



4) Fixed Knife Table (Default)



8. Limit Switches for X & Y Axis



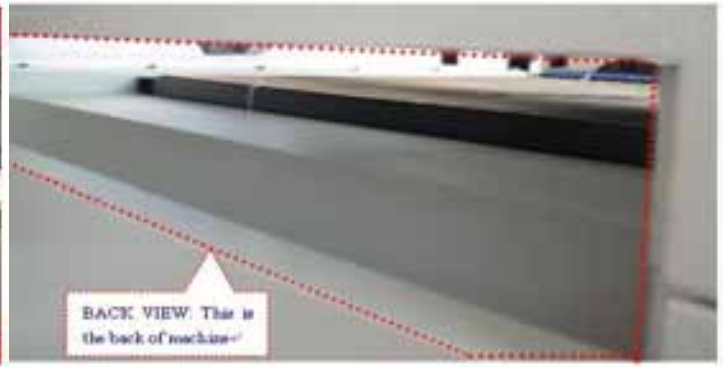
The limit switches prevent the axis from attempting to go beyond the mechanical limits of the machine. Some machines can be equipped with autofocus sensor which ties into the control board. The sensors for the X and Y axis are non-contact sensors which hold a more repeatable position over the life of the machine.

9. The inside light



It is always nice to check on the progress of the project that is currently running. The laser machine has a viewing window through the main access door, and this interior light works great for providing enough light to see what is happening inside.

10. Pass-Thru Doors



The laser 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 cannot fit completely inside the machine. Examples: Engraving pictures onto a bathroom shower door. Rolls of fabric threaded into the rear door, engraved or cut, and then pulled out the front door. Engraving the front door to my house. Engraving very large mirrors or sheets of glass. The limits are endless.

11. Castor Wheels



WISELY various models of laser engraving&cutting machines can weigh from 100 kg to more than 1200 kg. Every machine is equipped with castor wheels to make it easier to move it around the workshop or office.

12. Coolant Flow Check Sensor



The laser machine can be equipped with a chiller or water pump and tank. In either case, the coolant must keep the laser tube from overheating. This check sensor ensures the laser will not be allowed to fire without proper coolant flow. It is typical for us to use a mixture of glycol (or Antifreeze) and water as the coolant fluid.

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



14. USB 2.0 Interface and CE Certificate

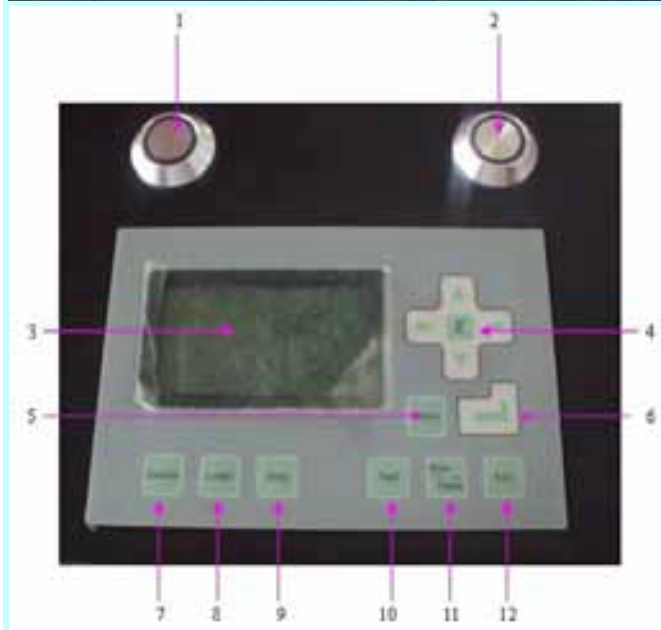
Laptop can work with our machine if it has USB 2.0 interface. We have CE, ISO9001:2008 and FDA for our machine.



15. Control Panel

User Friendly LCD control panel allows the user to quickly change selected program and modify machine operational conditions. You can Start, Stop, Pause, Reset, Datum, Test Fire, Outline engrave project area, Move the X or Y axis. LCD Viewing Display.

This is the display screen, it can tell you what the working speed and power you are using for your processing work.



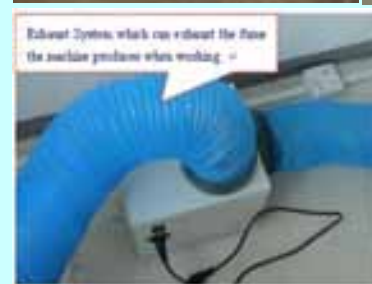
1. Laser machine switch
2. Water chiller switch
3. LCD screen
4. Function key for Z axis, press this key, could move the Z axis by up, down, left and right. This function needs the support of hardware.
5. Menu: Enter accessory interface
6. Enter: Confirm after setting parameter
7. Datum: the laser head will return to the original place in low speed; mainly for reducing the cumulative error.
8. Laser: the laser tube will ray after pressed this button, it is used for testing the light strong or weak.
9. Stop: press it when working, the machine will stop working and return to origin;
10. Test: Press "Test", the laser doesn't hit, the laser head runs quickly to show you the working area on the material.
11. Start / Pause: Press "Start", the machine will work or continue to work; Press "Pause", the machine will stop, the laser head will stop and the laser beam will not hit.
12. Esc: Escape or cancel the function setting.

16. Software

You can find one set of software, one USB cable and one Dongle in the bag.



17. 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. The fumes need to be removed from the operator work area because they can be irritating and unhealthy. The blower can also be connected to a vacuum box to pull air through the work material.

18. Vent Air Direction Control



The air that exits the laser machine can be controlled by this vent damper. It allows the operator to select what proportion of air can be pulled from above or below the work surface.

19. Air Pump



The air pump is used for three basic reasons. The primary reason is the push fumes away from the laser's focal lens. This protects the lens from contaminants which could destroy the lens. The second function of the air pump is 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. The third reason is that the air will help to cool the material. If the laser cut/engraved material stays hot, then it could warp or shrink. This air pump is a diaphragm style which does not require oil. Oil or water in the air line could be projected directly onto the focal lens. This air pump has a higher air flow rate and is quieter than other piston stroke designs.

20. Water Pump



This is water pump which is used to cool the laser tube, it's free of charge. but it is suitable for laser tube with 80W or less than 80W. If your machine adopts laser tube with 100W or more than 100W, we advise you buy a Water-cooling Chiller.

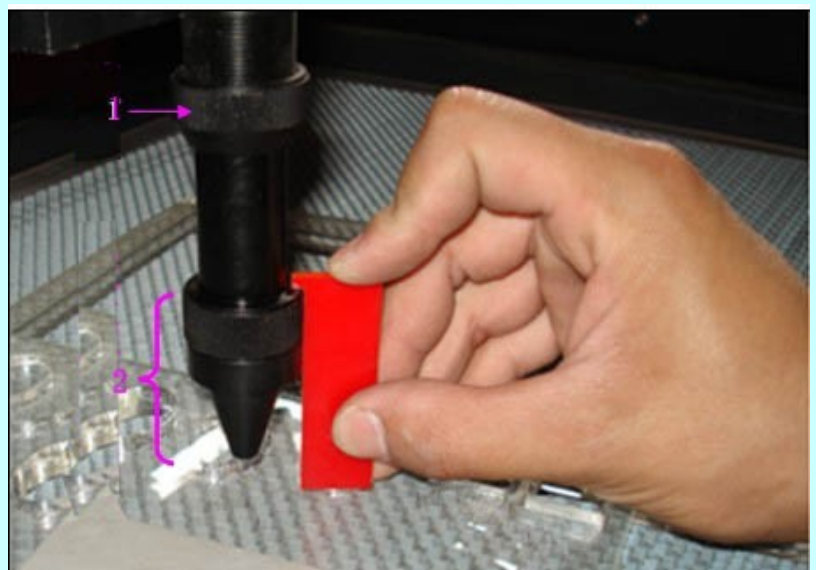
CW-5000 Chiller--For single 100W, 120W, 150W laser tube
 CW6000 Chiller--For single 100W, 120W, 150W, 180W or 200W laser tube
 CW-5200 Chiller--For double 60W, 80W, 100W, 120W, 150W laser tubes
 PH-LW15-BLP Chiller--For double 60W, 80W, 100W, 120W, 150W laser tubes

21. Red Dot Pointer



At the beginning of your processing work, you don't know where the laser will hit, but don't worry, you have "Red Dot Pointer", it can simulate the laser.

22. Focus



1. Lock cap 2. Focus distance

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

23. Rotary Attachments



Rotary Attachment with rollers--it can engrave on the material like bottles or cups.



Rotary Attachment with clips--it can engrave on the material like wood, bamboo, cup and so on.

24. Lens and Reflecting Mirror

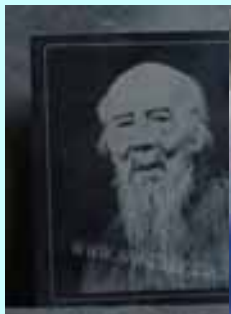


We use imported Lens and Silicon or Molybdenum.

SAMPLES



30mm Acrylic Cutting



Marble Engraving



Glass coated with pain Engraving



Leather or Cloth Cutting



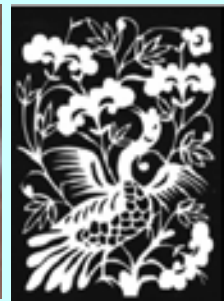
Jeans Engraving



Double-color sheet Engraving



Glass Engraving



Paper Cutting

Dear Customer,

Thank you for your time to read our catalog carefully and patiently, we believe you have had a clear idea about our machine. We always manufacture the best quality machine, and offer you professional and timely technical support.

The quality is as much important as the price, higher quality means less service, better reputation and continuous orders. It is not wise to purchase low quality machine for you, because you will have to pay a lot of money and energy to service, and you will not get good reputation.

It is much easier to lose a customer than to obtain a new one!!

If you still need cheap or low quality machine, please turn to other suppliers in China or other countries.

Yours faithfully!

Wisely Laser Team

Warranty

1. Every spare part (such as Laser Power, Drivers, Motors, Mainboard and so on) have warranty period of 12 months.
2. Honeycomb, Lens and Mirror have warranty of 3 months.
3. LASER TUBE have warranty of 3 months.

Shipment

Under ordinary circumstance, we will effect shipment within 5 WORKING DAYS after receiving your 100% payment.

Warm Tips:

To watch our machine working, please visit <http://www.wwlaser.com/channels/197.html>.

To download anything about our machine, please visit http://www.wwlaser.com/about/about_181.html.

If you need Remote Support, please write email support@wwlaser.com.