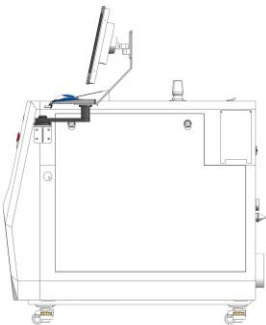


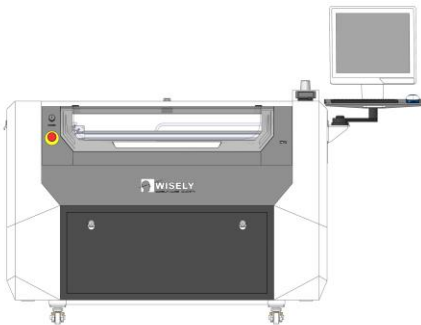


High-speed CO2 Laser Engraving & Cutting Machine

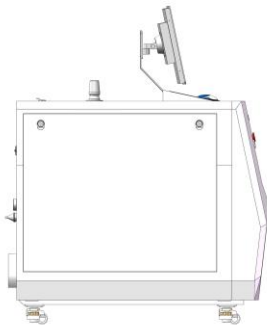
MY-L6090HS : \$25.630.00 inc GST
Including : installation , training , accessories



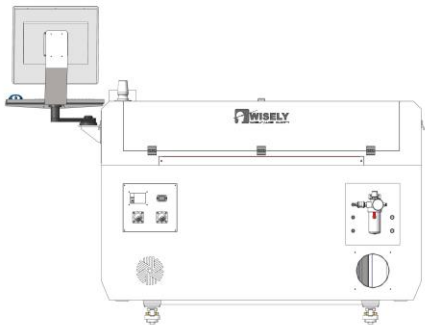
Right View



Front View



Left View



Back View

High-speed CO2 Laser Engraving & Cutting Machine

Feature

1. The dual-protection Interlock System can protect the operator from smoke or laser radiation hurting. The XYZ axis will stop moving, and the laser will stop firing if any door on the machine is opened.
2. RUIDA DSP controller RDC6445G-MOD5 is the latest generation of laser engraving / cutting control system. The control system has better hardware stability and better resistance to high voltage and static electricity.
3. Strong competitiveness: DSP control system supports windows XP/7/8/10/11, virtual printer driver model and flying cutting.
4. WIFI wireless control system can help you control more machine by one computer, and DATA Transit is faster and easier.
5. Equipped with high-speed Guide Rail, with small resistance, low machanical vibration and beautiful appearance.
6. The laser tube from RECI Laser guarantees high stability and fine laser beam, the lifespan of tube can reach 10 000 hours. The laser has Global Warranty, buyers don't need to pay any shipping cost for tube replacement.
7. The smart water-cooling system can keep the stability of temperature inside tube while the laser is firing.
8. The machine is more suitable for thin & soft material cutting or engraving at high speed, and can cut thick acrylic, wood, etc.

Application

WISELY PERFORMANCE Series laser cutting & engraving machine is mainly used to cut thin and soft non-metal materials, such as leather, fabric, textile, cloth, paper and so on. Meanwhile, the machine can cut or engrave thick acrylic, bamboo, plastic, marble, glass, woods, etc.

It can process the plexiglas products, acrylic display panel lenses, wood carving, advertising products, crystal characters, models, toys, furniture etc.

Parameter

Model	MY-L4060HS	MY-L6090HS
Working Area	400*600mm	600*900mm
Laser Power	40W / 60W / 75W / 90W	75W / 90W / 100W
Laser Type	Yongli & Reci Glass CO2 laser tube (Lifespan: Max. 10 000 hours)	
Transmitting Parts	High-speed Guiderail	
Driving Type	3P Closed-loop Stepper Driving System	
Default Software / Controller	RUIDA DSP Controller & RDWorks	
Max. Cutting Speed	1500mm/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	1000mm/s	
Mechanical Vibration in process	0.1 ~ 0.6	
Positioning Accuracy	≤0.015mm	
Min. Forming Character	English:1.5 x 1.5mm	
Power Supply	220V±10% 50HZ or 110V±10% 60HZ	
Software Supported	Lightburn, RDworks, ArtCut, PhotoShop, AutoCAD	
Graphic Format Supported	PLT, DXF, BMP, JPG, GIF, PGN, TIF and so on	
Working Table (DEFAULT)	Fixed Honeycomb / Blade Table	
Air Pump & Water Pump & Chiller	Yes	
Exhausting System	Yes	
Gross Power	<1200W	<1200W
Net Weight	110 KG	250 KG
Gross Weight	200KG	350KG
Dimension (mm)	132*99*109cm	150*118*109cm
Package Size (mm)	142*109*129cm	160*128*129cm
Operating Temperature	0°C-45°C	
Operating Humidity	5%-95% Free of condensed water	
Recommended Spare Parts	Lens, Mirror, Laser Tube, Laser Power Supply, Rotary, CCD camera etc.	

Shipment

Within 5~7 working days after receiving your payment.

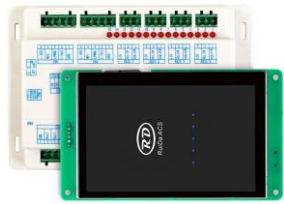
Warranty

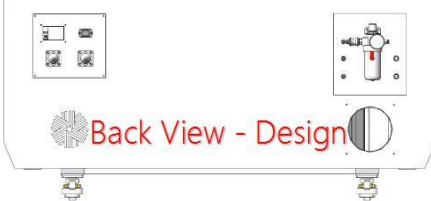
Whole machine has a warranty period of 12 months since the production date except the laser tube, mirror and lens.

Training

Onsite full training on both operation and maintenance included in the quoted price .

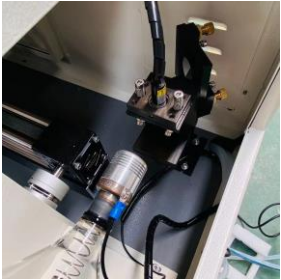
Main Configurations

 	1. Interlock for Safety The machine is equipped with dual protection interlock which can gurantee the INTERLOCK will work properly. 1) There is one pair of Omron sensor on each door; 2) There are two pieces of Omron plug-in red sensors on the cover, they are series connection; 3. There is one metal shutter equipped with the rotary motor and self-developed control card (a simplified PLC), it can lock the laser directly. Once we open any door / cover on the machine, 1) the XYZ axis on the machine will stop moving; 2) the laser will stop firing. The dual protecting interlock system protects the operator from smoke and laser hurting completely.		
 	2. RUIDA DSP Control System RDC6445G-MOD5 system is the latest generation of laser engraving / cutting control system developed by Ruida Technology. The control system has better hardware stability and better resistance to high voltage and static electricity. The human-machine operating system based on the 5-inch color screen has a more friendly operation interface and more powerful functions. Easy to achieve the control of the machine and panel settings, click to adjust the X, Y-axis movement, platform lift, auto-focus, etc.		3. WIFI Remote Control 1. Convenient - DATA transit and machine control via wireless networks. 2. The operator can use one computer to control many sets of machine, the WIFI is suitable for factory production. Meanwhile, the machine supports the data transit and machine control via USB cable. You can use any one between the two.
	4. RECI Glass CO2 Laser Tube 1. Fine Laser Beam (Small Laser Dot) 2. Stable Laser Output (Always get the same laser dot and laser power output) 3. Long Lifespan (Max. 10 000H) 4. Global Warranty (We can ship new tube for replacement globally, buyers don't need to pay any shipping cost)		5. Custmized Power Supply 1. This power supply can make the CO2 laser easy to start, fully exert the performance of the CO2 laser, and extend the life of the laser. 2. The operator can adjust the current by the ammeter while machine is working.
	6. High-Speed Guide Rail 1. Customized high-speed guide rail, light weight, low mechanical vibration, low noise, small resistance, the above characters ensure the laser machine working fast and smoothly. 2. The beautiful appearance can help the buyer with sales.		7. Customized Driving System Our machine is equipped with the 3P Closed-loop Stepper Driving System, the system has some advantages as follows: 1. Low-speed Ripple Smoothing 2. Extra Low Motor Noise 3. Anti Resonance at Middle-Speed Range 4. Multi-stepping Technology 5. Command Signal Smoothing 6. Lower Heating Technology 7. Self-test and Auto-configuration

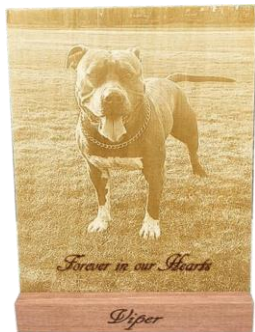
	8. Home Limit 1. The home limit switches on the machine, which are non-contact sensors, prevents the X & Y axis from attempting to go beyond the mechanical limits of the machine. 2. WISELY machine adopts the sensors from Omron in Japan, which can guarantee the laser head will not hit the XY axis guiderail.		9. Blade Table & Honeycomb I. The Blade Table is more suitable for hard material cutting. II. The Honeycomb Table is suitable for engraving or soft material cutting. Each machine has one blade table free of charge. If you have soft material engraving and cutting, we advise you to buy one extra honeycomb table for further use.
	10. Focal Lens and Mirror 3. Focal Len and Reflecting Mirror Znse raw materials, imported from US II&VI, high penetration and long lifespan. The 2" focal lens is suitable for engraving and would better work with laser power less than 100W. The 4" or 5" focal lens is more suitable for cutting and would better work with laser power more than 100W. The raw material of reflecting mirror is silicon, the reflecting rate can reach to 99.99%, and it can work with any laser power less than 300W.		11. Air pump The air pump is used for three basic reasons: I. To push fumes away from the focal lens. The contaminants could destroy the lens. II. To push air into the material's kerf as created by the laser beam. The air will remove debris/fumes and allow the laser light to penetrate deeper through the material. III. To cool the material. If the laser cut/engraved material stays hot, then it could warp or shrink.
	12. Exhaust Blower The vacuum blower creates an air flow to remove dust and fumes from the working table of the laser machine, make sure the working table clean and nice engraving and cutting works. The gray tube is made from fireproof material, and it is soft.		13. Water Chiller Industry Water Chiller CW3000 / CW5200 / CW6000, guarantees stable performance, good for keeping temperature of operation for laser beam stable output.
14. Water-Electricity Separation In order to guarantee the safety, we put the "WATER AREA" and "AIR AREA" at the right rear of machine, put the "ELECTRICITY AREA" at the left rear of machine.  Left  Right  Back View - Design		15. Pilot Lamp A function of alerting the operator when finishing the cutting work flashing lamp and a warning lamp when working, when you open door or door not closed, it will not laser out, to protect the operator. Red: The laser is firing, caution! Green: The machine is ready. Yellow: The machine is good in condition. Customized design, beautiful appearance, like a wine glass. 	

	16. Castor Wheels Each machine is equipped with 4 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 600 kg.		17. PC Platform The computer operation platform designed on the side, which is convenient for the operator to operate the machine while keeping track of the real-time status of the machine operation, and convenient for the operator to adjust the running pattern in time.
	18. Motorized Up/Down Table I. Each machine has a piece of fixed honeycomb or blade table, but you can pay extra money to update the standard fixed table to a Motorized Up/Down table. II. The motorized up/down table was equipped with motor and ballscrews, you will get enough space to load big objects by lowering the table, especially when you need a rotary for cylinder engraving. III. The Motorized Up/Down Table can work with Auto Focus perfectly.		

Optional Parts

	1. Auto Focus I. Ultrasonic Sensor can guarantee the auto focus in high precision. II. The auto focus can be used on almost non-metallic materials, such as acrylic, wood, paper, bamboo, glass, plastic, marble and so on. III. The auto focus must work with the motorized up/down worktable. You will get right focal length after pressing the button "focus" on control panel, the table will go up/down, then stop moving until the machine finds the correct focal length.		2. Rotary Device We have 3 types of rotary device for your options. I. Rotary Device with roller - for something like gourd (Model: GDR). II. 3-jaw Rotary Device with removable tail - for normal cylinder engraving or wine cup (D80R-B) III. Rotary Device - for cylinder like wine bottle (Model: WBR)
	3. Focal Lens and Reflecting Mirror ZnSe raw materials, imported from US II&VI, high penetration and long lifespan. The raw material of reflecting mirror is silicon, the reflecting rate can reach to 99.99%, and it can work with any laser power less than 300W.		4. Working Table I. The Honeycomb Table is suitable for engraving or soft material cutting. II. The Blade Table is more suitable for hard material cutting.
	5. RUIDA CCD RUIDA CCD is used for image recognition, with high sensitivity, fast response speed. It's suitable for large quantities products engraving & cutting jobs automatically.		6. Red Dot Pointer We put the combiner at front of the laser aperture, the combiner will have a red dot pointer which can go with the laser to the laser head, the red laser which is visible can simulate the invisible CO2 laser. We will know the accurate place and the scale the laser will fire before the machine starts moving. It makes the alignment for laser beam

Sample Gallery



Photos Engraving on Wood



Marble & Wood & Portrait Engraving



Wooden Case & Bamboo & Coconut Engraving



Artworks Wood & MDF Cutting



Acrylic Cutting & Crystal & Wood Engraving

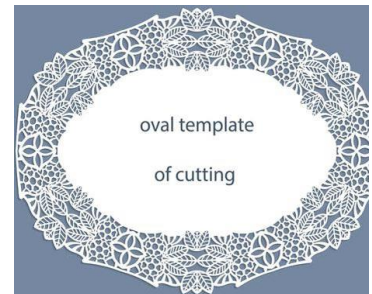


Acrylic Cutting

Thick Acrylic Cutting

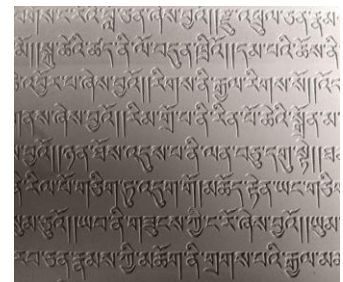


Fabric Cloths & Leather Shoes Cutting



board & c & l

plate & Paper Cutting



Glass & Rubber & Marble & Pottery Engraving