

SEPECIFICATION

MODEL	IE500	IE900	IE1200
Max Engraving Area	19.7" x 11.8" (500 x 300 mm)	35.4" x 23.6" (900 x 600mm)	47.2" x 31.5" (1200 x 800mm)
Max Material Thickness	7" (180 mm).	15.7" (400mm).	15.7" (400mm).
Laser Tube Wattage	60 watts	60, 80 watts	60, 80 watts
Standard Features	Radiance Optics, Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid and Vacuum Table, 2" (51 mm) Focus Lens and Relocatable Home Position.	Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid(HoneyComb Table), 2" (51 mm) Focus Lens and Relocatable Home Position, Emergency Stop Button.	Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid(HoneyComb Table), 2" (51 mm) Focus Lens and Relocatable Home Position, Emergency Stop Button.
Operating Modes	Raster engraving, vector cutting or combined raster/vector mode.		
Motion Control System	High-speed, DC stepper motors provide precise positioning.		
Laser Source	Stable, water-cooled CO2 sealed glass laser tubes, no need to add CO2 gas in whole life time.		
X-Y Axis	Imported linear guiding system ensures the machine durable.		
Belts	Advanced doublewide precision drive belts.		
Resolution	User controlled from 75 to 1200 dpi.		
Speed and Power Control for Raster/Vector	Computer or manually controlled speed and power in 1% increments to 100%. Cutting speed: 0 - 60,000mm/min. Resetting positioning accuracy: ±0.1mm. Minimum shaping character: English 1 x 1mm.		
Print Interface	PCI Card or USB connection. Compatible with Windows 2000/XP.		
Size	51.2"W x 26"H x 17.7"D (1,300 x 660 x 450 mm)	53.5"W x 39.8"H x 42.1"D (1,360x1010x1070 mm)	63"W x 40.2"H x 39"D (1,600x1020x990 mm)
Weight	198 lbs(90kg)	616 lbs(280kg)	704 lbs(320kg)
Electrical Requirements	Power supply accommodates 110 or 240 volts, 50 - 60 Hz, single phase.		
Ventilation System	External exhaust to the outside required. There is 1 output port, 4" in diameter.		

IE SERIES Laser Engraver

Quality Products Tailor-Made to Fit Your Needs



Emergency Stop

Allows operators to stop the laser and the motion carriage immediately to provide highly safety operation.

LCD Panel

A user-friendly menu-driven interface system simplifies complex tasks. Job status display facilitate your work and make it clear and easy to carry out.

Reliable Motion System

Systematic and reliable motion system embedded with strong mechanical framework and accurate servomotor control technology to deliver superb output quality under rapid movement.



Laser Safety

All laser products—that is, equipment incorporating lasers as components—must be classified according to their output levels. In the United States, compliance with the regulations for lasers and laser products issued by the Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) is mandatory. Class 3R is a European designation. The CDRH allows Epilog to mark products in accordance with the European standard (CDRH Laser Notice 50), so that two sets of labels are not required. European Class 3R is equivalent to U.S. Class IIIa.



Visit our website:
www.iehk.net

IE500.900.1200 Laser Engraving Machine

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Red Dot Pointer

Improve processing position accuracy, finding the exact cutting or engraving location...

See Page 3



Air Assist

Reduces the heat and eliminates combustible gasses from...

See Page 3



Rotary Attachment

Rotating cylinders of different diameters in a hassle-free manner...

See Page 6



IE1200



IE500

IE500 is a little bit smaller than IE900.1200 Laser Engraver, it bring you more choice and do flexible job...

Integrated Vector Grid

Makes the task of the operator easier by lifting through every kind of material...

See Page 4



Auto Focus

Allows the automatic manipulation of the table for each task. Auto Focus is considered...

See Page 7



Stamp Making

Creating your high-quality rubber stamp in minutes! It's fast, easy and efficient...

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Red Dot Pointer

On odd-shaped items, finding the exact cutting or engraving location may be quite difficult. With the use of a red dot pointer, you will have a visible red laser beam that point you to the exact engraving spot within the engraving table.



IEHK laser engraver frequently employs the use of the Red Dot Pointer. By doing so, the project's actual engraving or cutting position can be easily seen and when possible, corrected. If you keep the Red Dot Pointer functioning while making sure that the laser door is open, you can be certain that the laser tube will not fire or start cutting. Instead, the Red Dot Pointer shows the precise point at which the laser is going to start engraving or cutting into the material.

Air Assist

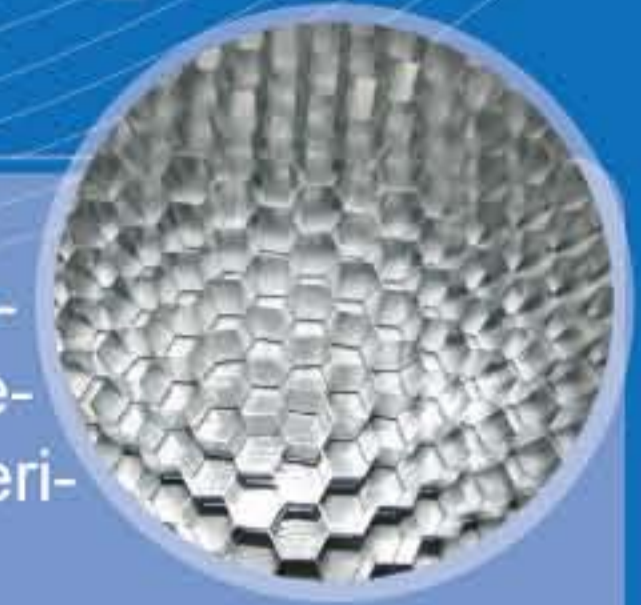
If you cut a material using laser, there is chance that a little bit of flame up may occur. Of course, such flame up would not be hazardous to you. However, the concern is that the heat from the flame up will damage the edges of the material. IEHK Lasers wants to prevent this from happening so it introduced the Air Assist.



Vector cutting applications usually benefit from the use of Air Assist. Air Assist reduces the heat and eliminates combustible gasses from the material's cutting surface. In cutting common materials like rubber, wood and acrylic, it is best to employ the use of Air Assist in order to prevent flaming, scorching and charring. In fact, it is the Air Assist's steady stream of compressed air that actually protects the quality of the cutting.

Integrated Vector Grid

The Integrated Vector Grid transmits the material to the work area. It makes the task of the operator easier by lifting through every kind of material – heavy or light – without mess.



The Integrated Vector Grid allows the laser to move even faster and work even more accurately in cutting the very material you are working on. One of the greater things that the Integrated Vector Grid could do is reducing smoke from the top and bottom sides of the material so you do not get reflections. It means you can work smoothly!

Easy Software

IEHK gives you the power to create and design custom prints with their newly developed laser printing software. This custom printing driver is easily mastered because of a new user-friendly interface that gives you complete control.



You can input your own settings so each project can be perfected even down to the tiniest detail.

You have the ability to change auto focus, speed, resolution and much, much more!

Once you have chosen certain settings, you can save it in the Configuration menu and keep them there in case you need them again. Give your projects that unique edge and get IEHK's new laser engraver.

IE500.900.1200 Laser Engraving Machine

Stamp Making

IEHK laser engraver gives stamp making a major boost. With its new line of stamp engravers IEHK gives you a product that creates high-quality stamps with sharper and cleaner rubber-- and all at a lower cost than traditional stamp making products.



The procedure for engraving is simple, just set up your scanned images and text in CorreIDRAW and then send it to the engraver. You can set different Raster speeds and power settings to create unique stamps to your character specifications. The laser then burns the rubber directly, creating your high-quality rubber stamp in minutes! It's fast, easy and efficient.

After engraving you can select a vector speed and power to cut the stamp out. The IEHK stamp engraver helps you create unique, high-quality to your specific preferences. Make it the way you want, IEHK laser engraver give you the perfect tool for it!

Stepper Motors

IEHK Lasers utilize the power of stepper motors. These motors are brushless, digitally- controlled and operate synchronously at a high speed range. They are considered the most ideal type of motors for positioning systems which require precision control and accuracy, without a constant need for position feedback.



Stepper motor technology used in our IEHK laser line runs on "open-loop" control. This kind of low cost efficiency does away with the need for a separate position control system. Moreover, using stepper motors in our lasers makes it possible for more step resolution, also known as "micro-stepping", which makes it possible for you to achieve position resolution without limits.

Long-life Lasers

IEHK lasers are fitted with top-of-the-line CO2 laser tubes. These tubes contain excitable CO2 gas that is stimulated by RF energy, expelling a concentrated optical beam of invisible infrared light for precision cutting, marking or engraving on different types of material.



What's more, IEHK laser tubes are made of a special type of glass. This extends tube life for up to 1500 hours of use and no need for gas refill. These cost efficient glass tubes come in 60-watt and 80-watt versions.

Rotary Attachment

Optional

IEHK Laser is sure equipped with just about the best things you will need for precise engravings and more. One of the reasons behind that statement is the Laser Rotary Attachment.



This added feature allows each and every IEHK unit to engrave on just about any kind of shape and size there is. Creating smooth and accurate engraves in small items such as flashlights and bottles is made possible only by the Laser Rotary Attachment. It can even adjust from one shape and size to another so you would not have a messy time doing all the work.

The Laser Rotary Attachment is user-friendly. You would not have to crack complicated codes to learn how to operate it. Also, it can move you up in doing work from one shaped item to another without having to lift or alter anything. The Laser Rotary Attachment is specially designed to provide exact image scaling, rotating cylinders of different diameters in a hassle-free manner.

IE500.900.1200 Laser Engraving Machine

Auto Focus

The laser beam is directed to the tiniest possible area at the point where it is tangent to the material.

The purpose of this is to create the best optimum image and highest quality of edge. Concentrating the beam requires adjusting the table vertically so that the piece being worked on is of ideal space from the lens.

Our Auto Focus employs the revolutionary magnetic plunger technology that allows the automatic manipulation of the table for each task. Auto Focus is considered the most effortless manner of assuring a 100% focus on engraving work.

Optional



Sample



Endless advertising and signage possibilities. Many many materials in a wide variety of colors and finishes.



Wood is a common choice for laser engraving. Different woods produce varying shades of grain after lasering. Wood can either be engraved as in the picture to the left, or if the piece is 3/4" or less thick it can be cut-out to produce intricate shapes.



Granite or Marble make beautiful lasting memories. Engrave an inscription, a logo or even a picture. The quality will astound you.



Unique gifts, awards and recognition items. Crystal Acrylic or even glass can be engraved to suit your needs

Laserable Materials

Material	Engrave	Cut	Mark
Wood	ok	ok	
Plastic	ok	ok	
Acrylic	ok	ok	
Glass	ok		
Ceramic	ok		ok
Coated Metals	ok		ok
Delrin	ok	ok	
Cloth	ok	ok	
Leather	ok	ok	
Marble	ok		
Matte Board	ok	ok	
Melamine	ok	ok	
Paper	ok		
Mylar	ok	ok	
Pressboard	ok	ok	
Aluminum	ok		
Rubber	ok	ok	
Wood Veneer	ok	ok	
Fiberglass	ok	ok	
Anodized Aluminum			ok
Painted Metals			ok
Stainless Steel			ok

Shown Upon is a small list of laserable materials, there are many more but this will give you an idea of the wide variety of possibilities.