

LUMITOOL

LumiTool F20 Instruction Manual

IMPORTANT

Adjust the height of the lifting bracket (the focal length of each machine may be slightly different, please refer to the red focus distance measurement) Specifically, please refer to the red focus distance measurement.



APP Software Download

Multi-Platform Support: Our marking machine is designed with different users in mind, so it can support Android, iOS, and Windows computers. This means that no matter if you are using a smartphone, tablet or PC, you can easily connect and operate our marking machine.

Format Support: Our laser marking machine supports a wide range of file formats. Image formats: JPG, PNG, BMP, these formats are widely used for image storage and can meet your needs for image marking.

Vector Graphics Formats: DXF, AI (Adobe Illustrator), PLT, SVG, these formats support vector graphics and are ideal for designs that require high precision and scalability.



LUMITOOL



Android



IOS



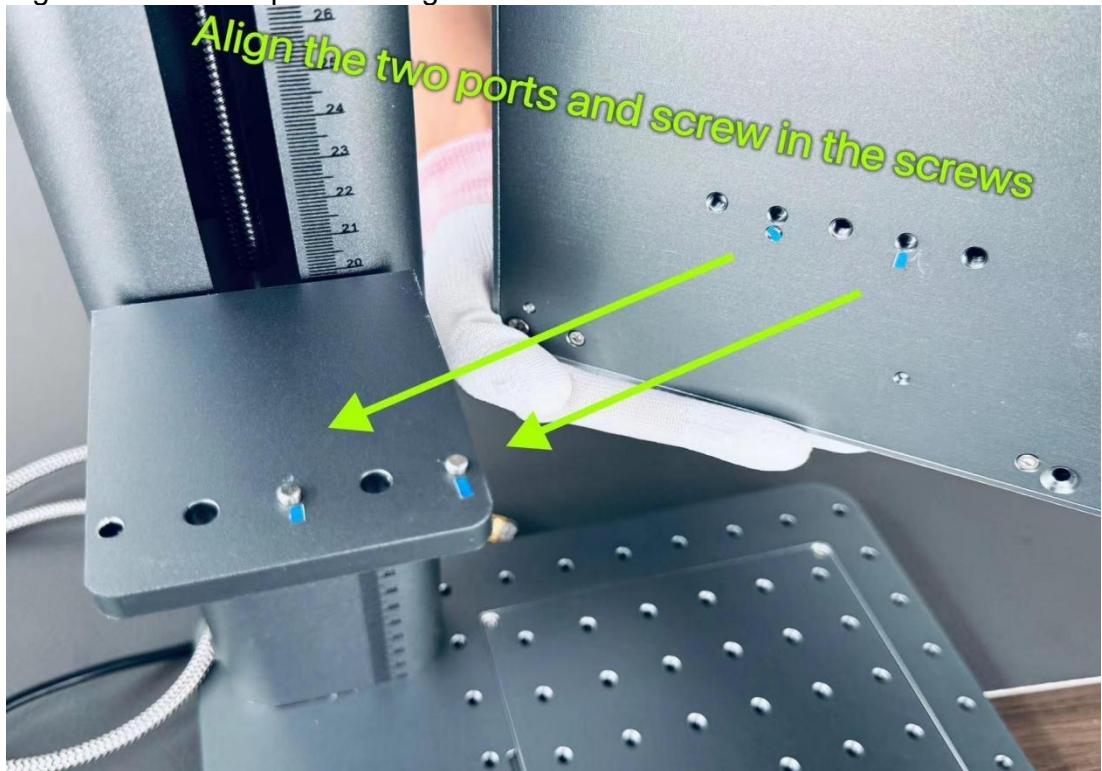
Material upload

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1.Quick Installation:

Align the two screw ports and tighten the screws.



Make sure the two screws are tightened and the assembly is complete.



2. Adjust the Focus:

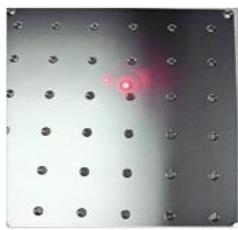


Image 1: When two red dots are not overlapping or separated, it suggests that the laser is not focused accurately.

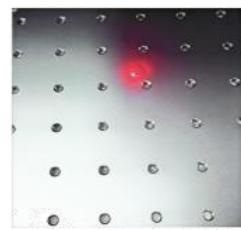
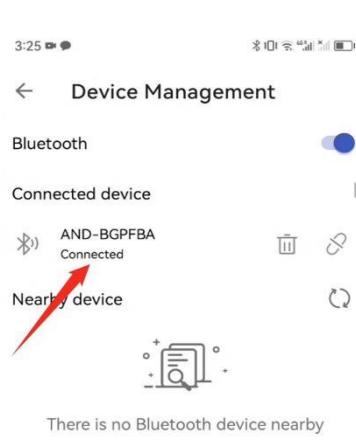


Image 2: When two red dots overlap at one point, it suggests that the laser is focused.

The more precise the focal length, the better the marking effect is.



After completing the editing of bitmap images, text, barcodes, or other content, you can click "Next" to enter the printing interface. In the printing interface, there are a few steps you need to follow:

1. Connect the device and laser engraver via Bluetooth.
2. Adjust the laser focus by raising or lowering as needed.
3. Initiate the laser marking or engraving process

3. Plug Connector Details:



① Accessories Power Input: This port is used to connect an external accessory to the laser marker [Roller Rotary/Slide Extension/Chuck Rotary) all three of which are connected to the same jack.

② Electric Lift Power: The laser marker is equipped with a motorized lift, this port is used to power the motorized lift system. The motorized lifting system allows the user to adjust the working height of the marking machine according to the working needs, making the operation more convenient and flexible.

③ Adapter Power Input: This connector is used to connect the power adapter so that the laser marker can get the required power from the power outlet. It ensures that the laser marking machine is safely and stably connected to the power source for normal marking operations.

1. Set the fill parameters

The vector image uses a path (a point composed of straight lines and curves) to represent the image.

A bitmap (or raster image) is an image composed of an array of pixels, each pixel has a specific color and position.

Therefore, a bitmap cannot be filled, but a vector image can be filled.

1.1 Set Fill 1 and Fill 2: Vector graphic fill refers to the process of filling the internal area of a vector graphic with color or pattern.

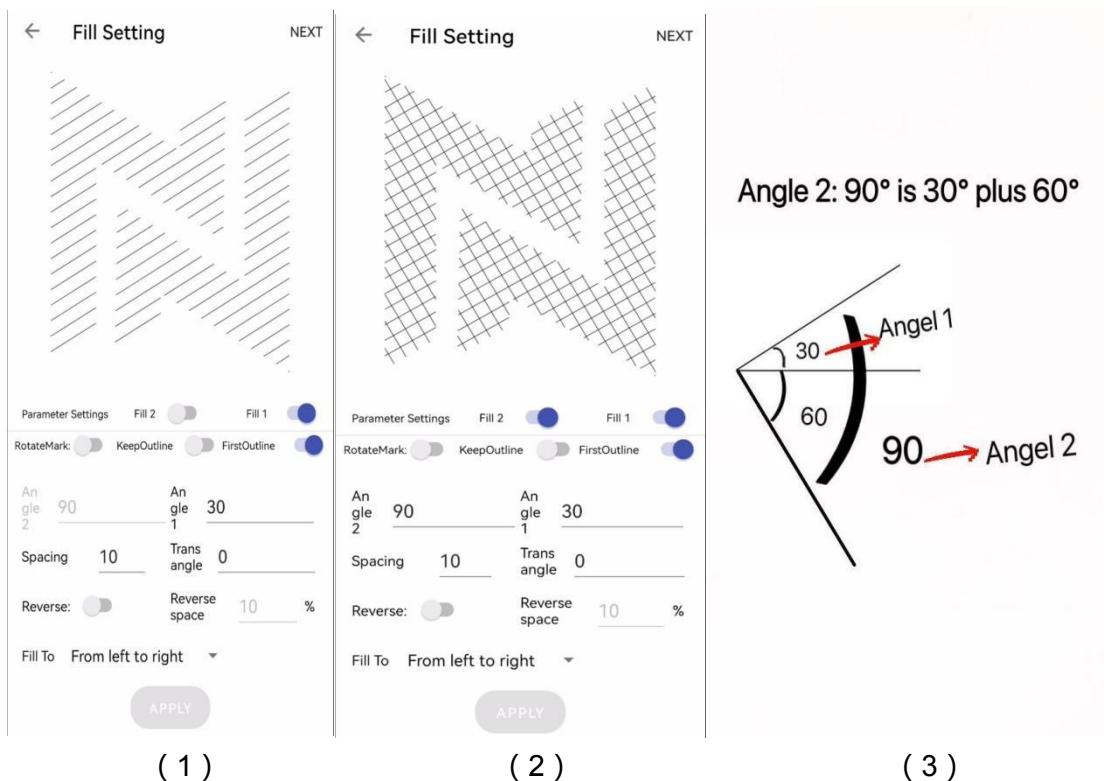


Figure 1: Turning on Fill 1 to show the 30° lines.

Figure 2: Turning on Fill 2 to show the 90° lines.

Figure 3: The direction of the 30° and 90° fill lines.

1.2 Fill Spacing and Trans angle

The fill spacing refers to the distance between fill elements during the filling process. In laser marking, the fill spacing is particularly important because it directly affects the density and depth of the marking.

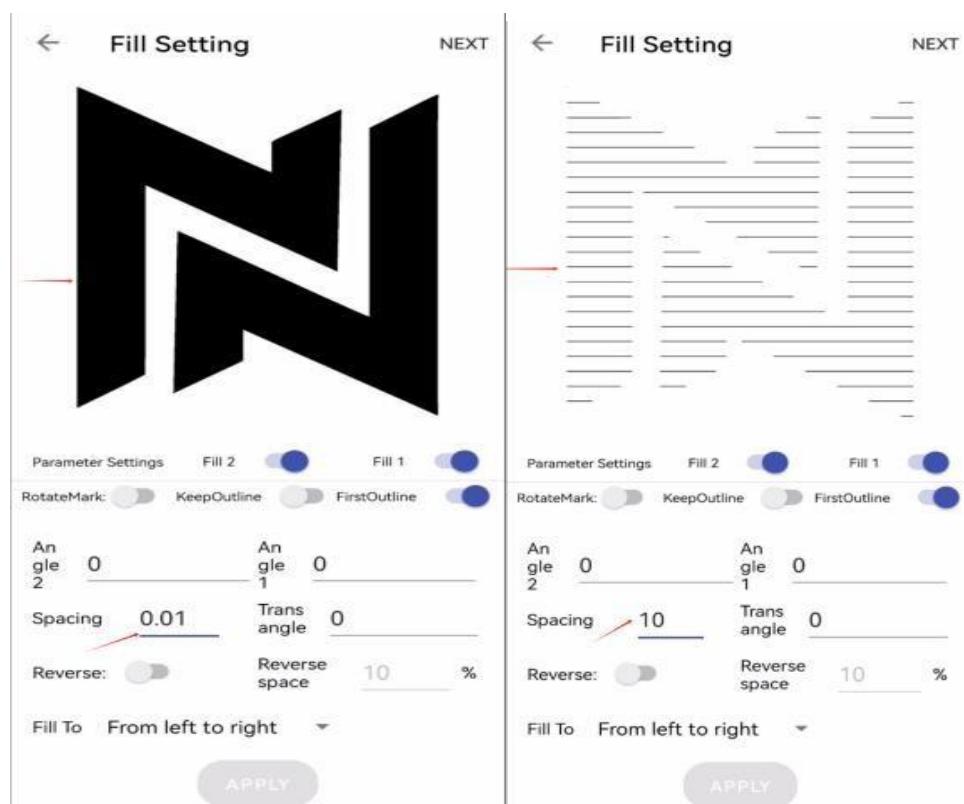
Tight filling: When the fill spacing is set to a smaller value, the laser marking will be denser, and a deeper marking effect and a fuller filling appearance can be obtained.(See Figure 4)

Sparse filling: When the fill spacing is set to a larger value, the laser marking will be sparse, the marking effect may be lighter, and the filled area may look more transparent or less full.(See Figure 5)

When the height is set to 100 mm, 1 pitch \approx 0.45 mm.

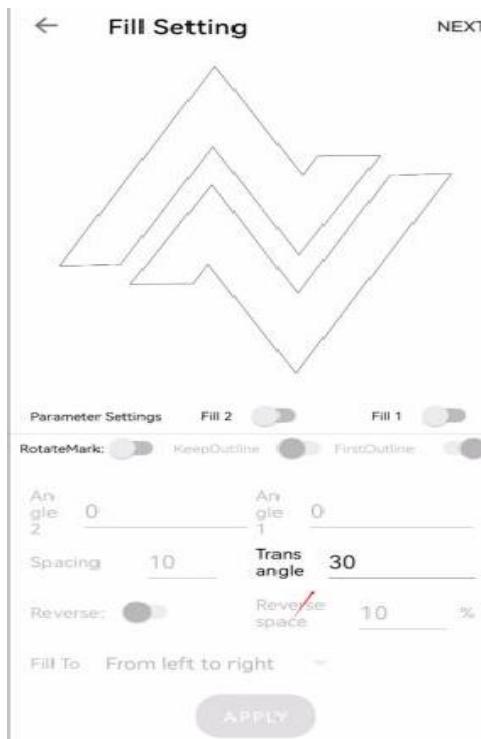
Trans angle: Rotate the pattern clockwise.

rotated 30° (Figure 6) rotated 90° (Figure 7)

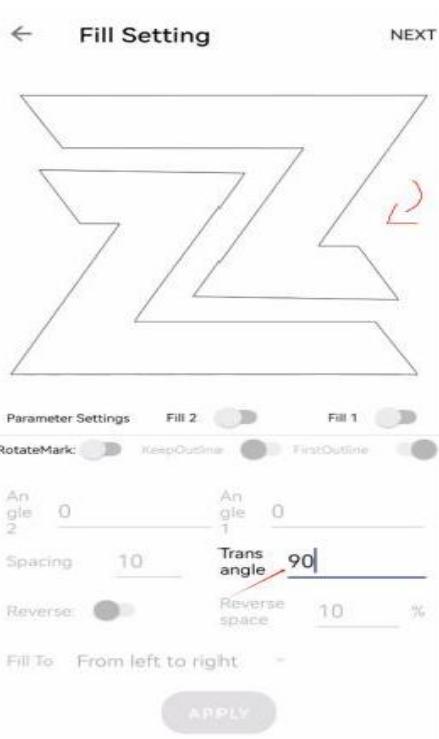


(4)

(5)



(6)



(7)

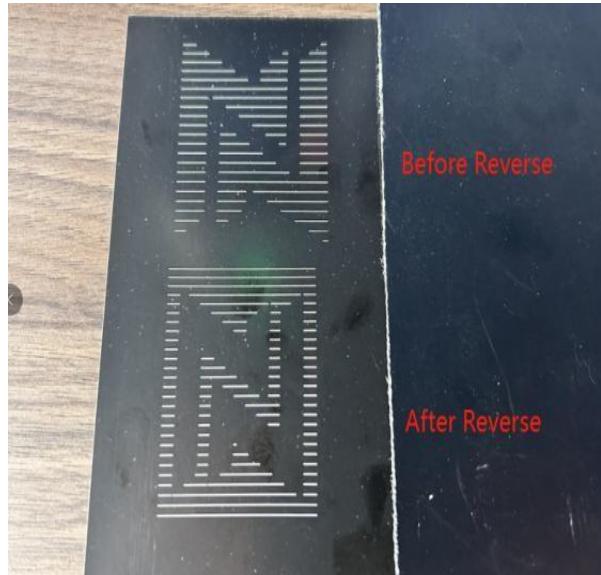
1.3 Reverse and Reverse Space

The Invert function will swap the black and white parts and invert the color of the pattern or text.

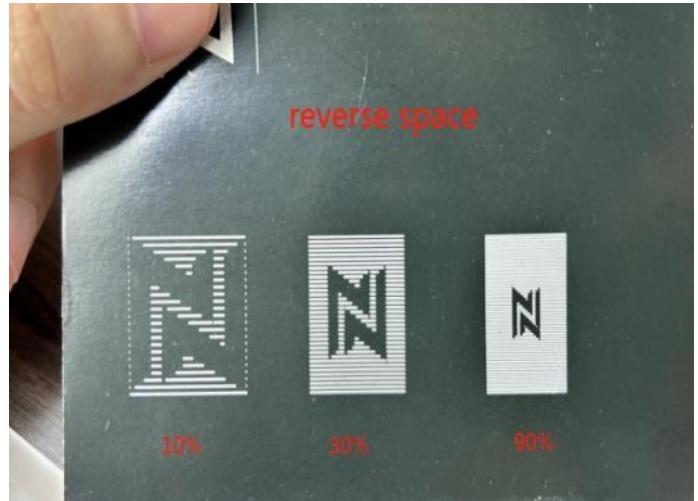
Invert White Space is a specific function in laser marking, which involves changing the way the marking area is defined. Usually, laser marking is based on the closed path in the design to define the marking area, that is, the area inside the path is marked. Reverse space reverses this process, so that the area outside the path is marked, while the area inside the path remains unchanged.

Before Reverse - After Reverse (See Figure 8)

Reverse space (10%-30%-90%) (See Figure 9)



(8)



(9)

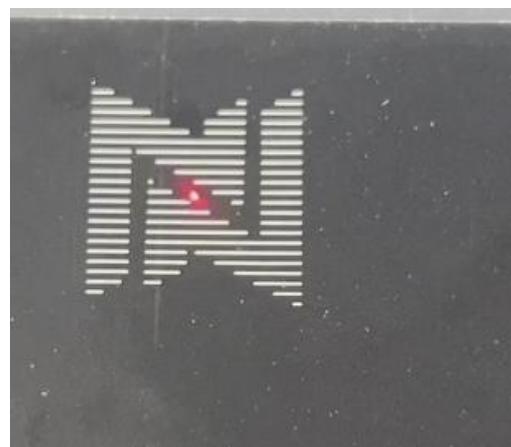
1.4 KeepOutline、FirstOutline、Three Fill Directions

KeepOutline: Keep the edge of the graphics visible and clear during the marking process. (see Figure 10)

FirstOutline: Mark the graphics boundary first before other marking operations to ensure the accuracy and clarity of the overall marking. (See Figure 11)



KeepOutline (10)



FirstOutline (11)

Three Fill Directions: From left to right / From right to left / Reverse Bow glyph

2. Printing parameters:

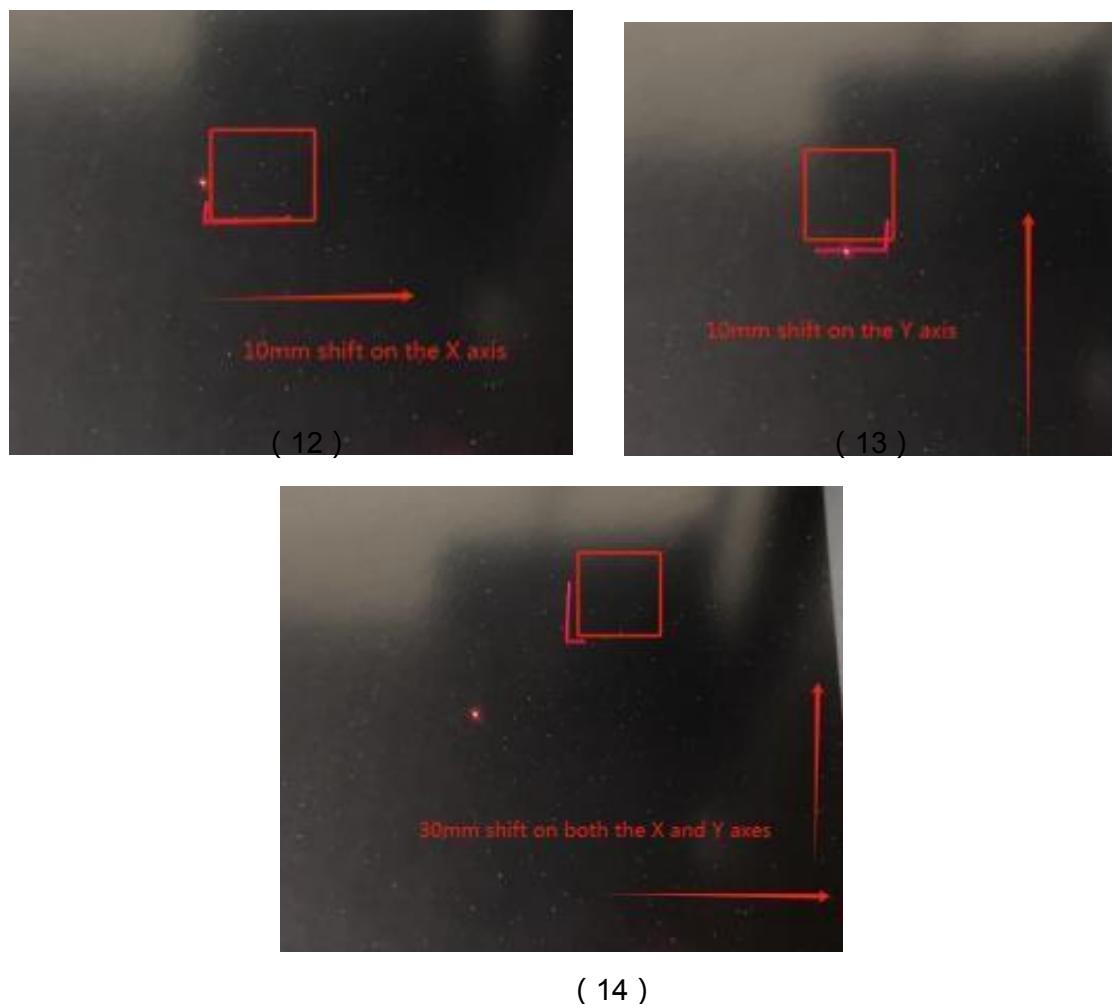
2.1 OffsetX OffsetY

"OffsetX" and "OffsetY" refer to the horizontal and vertical offsets that fine-tune the marking position on a plane. These parameters are particularly important because they help ensure that the mark, text or pattern is placed precisely in the correct position on the target object.

Figure 1: 10mm shift on the X axis (See Figure 12)

Figure 2: 10mm shift on the Y axis (See Figure 13)

Figure 3: 30mm shift on both the X and Y axes (See Figure 14)



2.2 Width and Height

The width and height parameters can be used to unfix the parameters. Set the parameters you want, and note that these values should be within the range of the selected field lens size.

2.3 Speed and Power

Speed: (See Figure 15)

How fast the marking head moves, in mm.

Fast speed: short marking time, shallow depth.

Slow speed: long marking time, deep depth.

Influencing factors: material type, required depth.



(15)

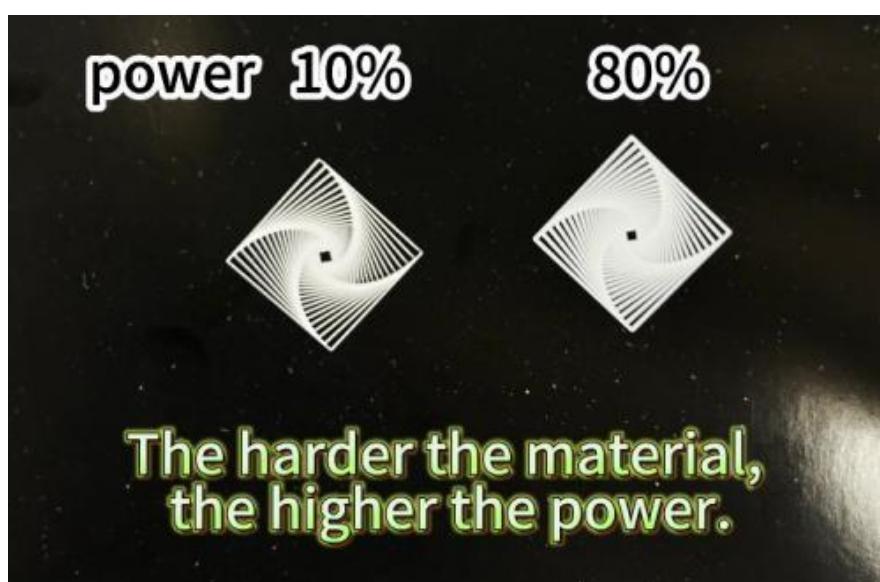
Power: (See Figure 16)

The energy level of laser output.

High power: strong processing capability, deep depth, fast speed.

Low power: suitable for delicate or sensitive materials to prevent excessive ablation.

Influencing factors: material hardness, precision requirements, marking effect.



(16)

3. Other Parameters:

3.1 On Delay and Off Delay

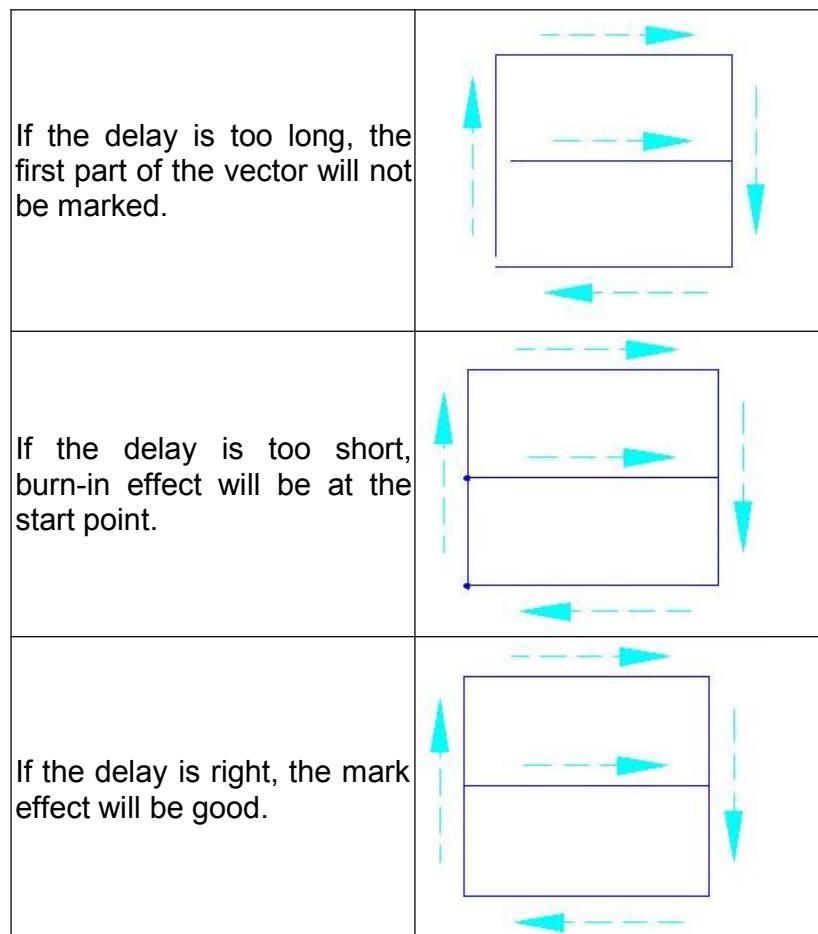
On Delay: Default -10 (no need to change)

On Delay refers to the time delay from when the laser receives the marking signal to when the laser actually emits the laser. This parameter is mainly used to adjust the accuracy of the starting position of the laser marking. If the on-delay is set improperly, the starting position of the marking may be offset, affecting the marking quality.

Laser On Delay : The delay before the laser on.

If the delay is too long: the first part of the vector will not be marked.

If the delay is too short: there will be a burn-in point at the first mark position.



Off Delay:Default 180 (no need to change)

Off Delay refers to the time delay from when the laser stops receiving the marking signal to when the laser actually stops emitting the laser. This parameter also affects the accuracy of the end position of the marking. Proper adjustment of the off-delay can ensure the accuracy of the end position of the marking and avoid unnecessary additional marking due to too long a delay.

Laser Off Delay : The delay before the laser off.

If the delay is too long: the burn-in effect will be at the end point.

If the delay is too short: the last part of the vector will not be marked.

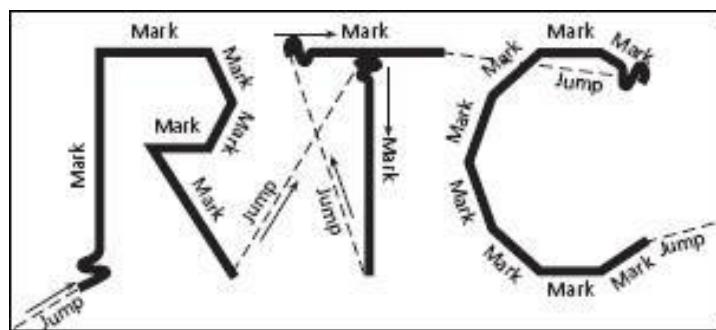
<p>If the delay is too short, the last part of the vector will not be marked.</p>	
<p>If the delay is too long, the burn-in point will be at the end position.</p>	
<p>If the delay is right, the mark effect will be good.</p>	

3.2 Jump Delay and Jump Speed

Jump Delay : Because of the inertia of the mirrors, a lag occurs between the set position and the real position when the light point jumps to the set position, so a jump delay need to be added.

If the jump delay is too long: no more effect, but the total mark time will be more.

If the jump delay is too short: the mirror will be not stable to the set position, and then the mark will start as following graph.



Jump Speed:

Jump speed refers to the speed at which the laser head moves from one marking position to another, and the unit is usually mm/s.

Fast jump speed: can reduce idle time and improve marking efficiency.

Slow jump speed: suitable for position adjustment that requires higher precision to avoid overshoot or inaccurate positioning.

Adjustment factors: make appropriate adjustments based on the complexity of the marking pattern, material properties and marking requirements.

3.3 Duty Ratio、Area、Frequency、MinPower、External trigger

Duty Ratio :

Duty ratio refers to the ratio of the time the laser emits laser light in one cycle to the total cycle time.

For example, if the laser emits laser light for 0.5 seconds per second, the duty ratio is 50%.

The duty ratio affects the average power of the laser and the marking effect. Too high a duty ratio may cause the material to overheat or be damaged.

Area : The marking area is not set arbitrarily, but is defined according to the field lens used. Different field lens focal lengths can provide marking areas of different sizes, so when choosing a marking machine, you must choose a suitable marking area based on your actual needs.

Frequency :

Frequency refers to the number of times a laser pulse per second, usually measured in Hertz (Hz).

Higher frequencies provide more continuous laser output and are suitable for applications that require fine marking.

Adjusting the frequency affects the speed and quality of marking.

MinPower:

Minimum power refers to the lowest power level that the laser can output.

This parameter is used to set the minimum energy output during laser marking to meet the needs of different materials and marking depths.

Adjusting the minimum power can optimize the marking effect and avoid material damage caused by excessive power.

The following are the effects of four different powers: (see Figure 17)



(17)

External trigger :

In the operation interface of the laser marking machine, the "Batch Engraving" button is usually used to start the automated marking process. In this process, the marking machine can perform multiple engraving operations in succession. To effectively use this function, it is usually necessary to activate the "External Trigger" button first.

4. Rotate Parameters :

4.1 RotateMark and Rotate Equipment

RotateMark: The RotateMark function is used to rotate the workpiece during marking to achieve complex patterns or uniform circumferential marking.

1. To use this function, you need to install accessories such as chuck rotary and roller rotary slide extensions to ensure stable rotation of the workpiece.
2. Before marking, make sure the vector image is filled to avoid discontinuous marking. Unfilled vector images may cause discontinuous or uneven marking, affecting the final marking quality.
3. Set the marking parameters such as speed, power and focal length to optimize the marking effect and efficiency.

Rotate Equipment: RollerRotary including (Roller Rotary , Chuck Rotary) and SlideExtension.

4.2 Product Diameter、Motor Subdivision and Gearspeed

The marking machine needs to adjust its marking position and parameters according to the diameter of the product to ensure that the mark can be accurately printed on the specified position of the product.

In the marking machine, the Motor Subdivision stepper motor can achieve more precise movement control through subdivision technology, which is crucial to ensure marking accuracy.

The following three accessories require you to set these two parameters.

1. Roller Rotary (Fixed parameters)

Product Diameter: 32 mm

Motor Subdivision: 128 multiple

2. Chuck Rotary

Product Diameter: Value based on the diameter of the object being marked (errors within 3mm can be ignored)

Fixed parameters: Motor Subdivision: 128 multiple (Fixed parameters)

3. Silde Extension (Fixed parameters)

Product Diameter: 1mm

Motor Subdivision: 100 multiple

By adjusting the Gearspeed to different multiples, the efficiency and quality of the marking process can be optimized according to the material type.

Gearspeed:

Gearspeed 1x: Normal marking speed. This is the base speed, used for standard operations and quality requirements.

Gearspeed 2x: Double speed. The marking speed is twice as fast as the normal speed, suitable for situations where the marking accuracy is not very high, but the speed needs to be increased.

Gearspeed 4x: Quadruple speed. The marking speed is four times the normal speed, used for large-scale production, where the requirements for marking quality can be appropriately reduced to improve efficiency.

5. Correction Parameters:

5.1 Turn XY Turn X Turn Y

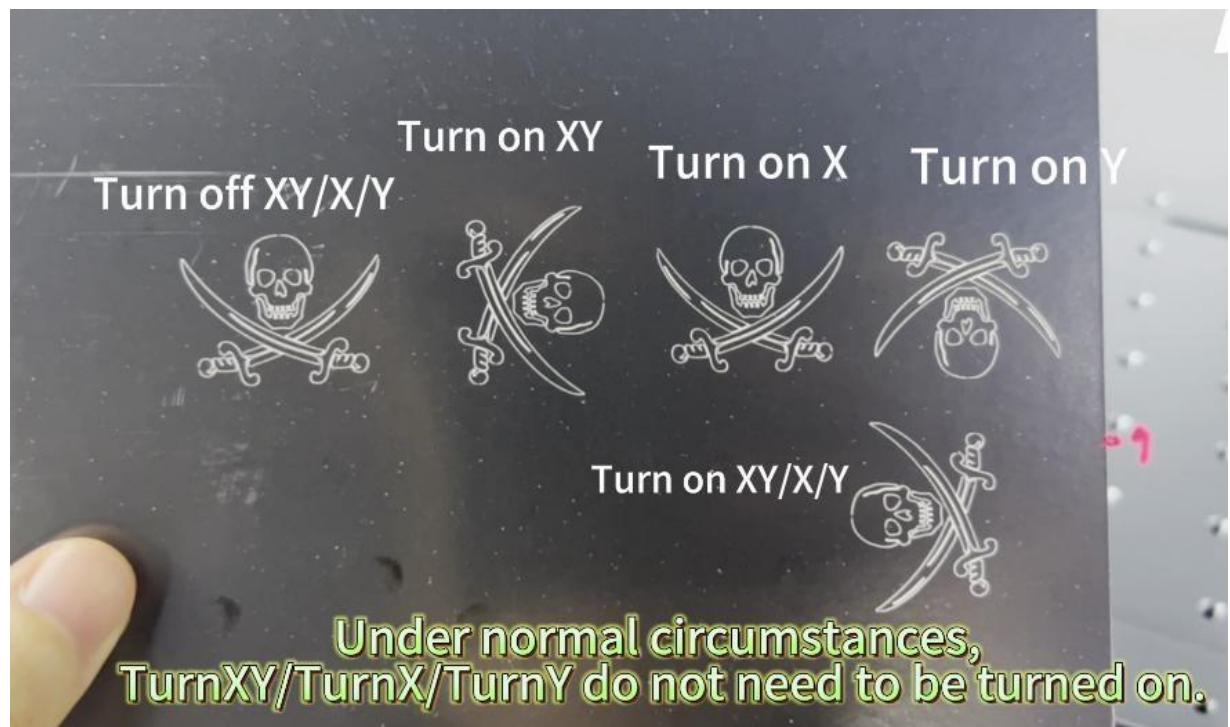
In marking machines, "Turn XY", "Turn X", and "Turn Y" usually refer to different operating modes that control the movement of the marking machine table or marking head.

Turn XY can be abbreviated to XY, which means that both the X-axis and Y-axis are controlled.

Turn X can be abbreviated to X, which means that only the X-axis is controlled.

Turn Y can be abbreviated to Y, which means that only the Y-axis is controlled.

The following are the effects of five different operations: (see Figure 18)



(18)

5.2 Pincushion、Trapezoid、Paral、Ratio

Pincushion :

Pincushion is a typical lens distortion where the edges of the image bend inward, making the image appear to be compressed in the center and pulled inward at the edges. It is the opposite of barrel distortion, where the edges bend outward. Pincushion distortion is often seen in images from long focal length lenses, especially when shooting with a telephoto lens.

Trapezoid :

Trapezoid distortion refers to the image not being perfectly parallel vertically or horizontally, resulting in the image shape looking like a trapezoid, which often occurs in projectors and certain types of display devices. This distortion occurs when the projector is not facing the screen directly, or when the projection angle is tilted. Most modern projectors offer a keystone correction feature that allows the user to correct this distortion by adjusting the device's settings so that the image edges remain parallel.

Paral :

This word may be an abbreviation of "Parallel". In display technology, it is important to maintain the parallelism of the image edges, especially when performing geometric corrections. Improper parallel alignment will cause image distortion and affect the viewing experience.

Ratio :

Ratio usually refers to the aspect ratio of an image, that is, the ratio of the width to the height of the image. Common aspect ratios include 16:9 and 4:3. This is a very important concept in the film and television and display industries. The correct aspect ratio ensures that the image is not stretched or compressed and maintains the original visual proportion. When processing images and videos, maintaining the correct ratio is critical to avoid distortion and provide the best viewing experience.

6.Product Specification :

Model	F20
Working Area	110mm"110mm/150mm"150mm
Laser Type	20w 1064nm Fiber Laser
Resolution	1K/2K/4K/8K
Cutting Depth	1.5mm on Metal, 3mm on Stone
Engraving Precision	0.001mm
Repeat Pulse Frequency Range	25-67(kHz)
Output Power	18-20W
Input Power	12V/20A
Engraving Speed	7000mm/s
Net Weight	7.5kg
Operation Temperature	-15-35S°C

Laser Head Dimensions	280x130x145mm
Laser Stand Dimensions	280x210x425mm
Support File Format	JPG/PNG/BMP/G-Code/PLT/DXF/Ai
Pc Support System	Windows
Mobile Support System	iOS & Android & HarmonyOS
Wireless Connection	Wi-Fi

7. Accessories Collocation and Precautions:

Slide Extension

Product core functions and introduction:



Enlarged engraving area: With the slider extension, the working area is 300 x 160 mm, which is 4 times that of the F20 itself, providing users with greater creative space and creativity.

Fast and precise: Even with the extended working area, it can still maintain fast and precise engraving and cutting operations, and is suitable for working with 100+ different materials.

Easy to use: The sliding extension is pre-assembled, no additional installation is required, and it is directly inserted for use, which simplifies the operation process.

New cutting board design: With one button operation, the sliding extension will automatically move to engrave and cut all your designs, providing a more convenient and efficient operation experience.

Precautions during use:

When using the sliding extension table of the laser marking machine, please make sure it is properly installed and adjust the size of the working area as needed.

During operation, please pay attention to adjusting the position of the extension table to ensure that the design can fully cover the required engraving and cutting area.

When operating the engraving machine, please pay attention to safe operation and avoid touching the laser or other dangerous parts to avoid injury.

When storing and maintaining, please perform correct maintenance according to the equipment manual to ensure the performance and life of the product.

By adopting aluminum alloy materials, expanding the working area, fast and precise operation, and a new cutting board design, the sliding extension table of this laser marking machine provides users with a larger creative space and a more efficient operating experience. During use, please follow the above precautions to ensure safety and reliability.

Chuck Rotary

Core functions and introduction of the product:



Wide range of application: three adjustable jaw attachments enable the device to adapt to objects with diameters from 3mm to 200mm, whether they are conical, spherical, cylindrical or annular inner and outer walls, precise engraving can be achieved.

High-performance motor: equipped with a high-torque motor, it not only supports engraving speeds up to 6000mm/min, but also maintains a high precision of 0.1mm, meeting professional-level engraving needs.

Flexible angle adjustment: The 180° angle adjustment function enables the device to adapt to more objects of different shapes and sizes, increasing the flexibility and versatility of the device.

Plug and play design: As an industrial fixture for the laser engraving machine, the laser chuck roller does not require a complicated installation process and can be used out of the box, which greatly simplifies the operation process and improves work efficiency.

Precautions during use:

When using the laser marking machine accessory chuck rotary table, please make sure it is installed correctly and adjust the jaw attachment as needed to adapt to the shape and size of the object.

During use, please pay attention to adjusting the angle to ensure that the object can be fully and accurately engraved.

When operating the engraving machine, please ensure the stability of the equipment and accessories to avoid inaccurate engraving or damage to the equipment due to instability.

When changing the work object, please pay attention to safe operation and avoid touching the laser or other dangerous parts to avoid injury.

During storage and maintenance, please perform correct maintenance according to the equipment manual to ensure the performance and life of the product.

By adopting aluminum alloy materials, a wide range of applications, high-performance motors and flexible angle adjustment functions, this laser marking machine accessory chuck rotary table provides users with a convenient and efficient operating experience. During use, please follow the above precautions to ensure safety and reliability.

Safety Shield

Product core functions and introduction:



High transparency material: Made of high-quality acrylic material, it ensures high transparency. The operator can still clearly see the engraving process while protecting it, without affecting the accuracy of the operation.

Portable design: The protective cover is designed to be light and easy to carry, suitable for various workplaces, especially for situations where the work location needs to be changed frequently.

Easy to install and use: The protective cover is easy to install and remove, without the need for professional tools, and the operator can set it up quickly, saving time.

Strong durability: Acrylic material has good impact resistance and wear resistance, and can withstand various pressures and frictions in daily use, ensuring long-term stable use and safety.

Precautions during use:

Please make sure that when using the laser marking machine, the protective cover is properly installed and covers the laser working area to prevent damage caused by direct exposure to the laser.

When using the protective cover, please confirm that its transparency has not changed to ensure that you can clearly observe the engraving process.

During use, avoid violent collisions or scratches on the protective cover to avoid affecting its transparency and service life.

When changing the work location or storing the protective cover, please keep it properly and avoid contact with sharp objects or chemicals to ensure its durability.

Please check the installation and material condition of the protective cover regularly. If there is any damage or deformation, please replace it in time to ensure safe use.

By adopting high-transparency materials, portable design and durable acrylic materials, this laser marking machine protective cover provides effective work protection for the operator while maintaining the convenience and accuracy of operation. During use, please be sure to follow the above precautions to ensure safety and reliability

Features:

Industrial 1064nm Fiber Laser: The LumiTool F20 is equipped with an industrial-grade 1064nm fiber laser. This laser ensures high-quality, precise, and efficient engraving and cutting of various materials, including metals.



visually striking designs on materials.

7,000mm/s Speed: The F20 offers an impressive engraving speed of up to 7,000mm per second. This high-speed capability enables quick completion of projects and increases productivity.

1.5-3mm Deep Engraving: With the F20, you can achieve deep engraving ranging from 1.5 to 3mm. This depth allows for more detailed and

Metal Engraving Master: The F20 excels in metal engraving, making it perfect for handling mass orders with its industrial-grade capabilities. It delivers consistent and high-quality results on metal surfaces.

AI-powered App: The F20 comes with an AI-powered application that enhances efficiency and ease of use. The app provides seamless integration with the machine, allowing you to control and optimize your engraving tasks.

Advanced Features:

Cloud Data Service: The F20 offers cloud-based data services, allowing you to manage and monitor your laser tasks remotely. You can access and control your projects from anywhere, providing flexibility and convenience.

Integrated Midjourney Technology: The F20 is powered by Midjourney AI technology, which provides unmatched marking precision, particularly for generating images. This advanced technology ensures high-quality and accurate engraving results.

The LumiTool F20 is a revolutionary fiber laser engraver and cutter that combines power, speed, and advanced features. It enables you to turn ideas into reality, handle mass orders efficiently, and boost your income. With its industrial-grade capabilities and AI-powered app, the F20 offers a seamless and high-performance engraving experience.

The combination of laser marking machine, protective cover, chuck rotary table and sliding extension table can meet various marking needs. The laser marking machine provides high-precision engraving and cutting functions, the protective cover ensures the safety of the operator, the chuck rotary table makes it more convenient to fix and rotate the work object, and the sliding extension table expands the working area and provides more creative space. The combination of these products provides users with flexible, safe and efficient marking solutions to meet the marking needs of various materials and sizes.

8.Safety Guidelines for Use:

FCC Compliance Statement:

"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

Before starting the installation of LumiTool F20, please check that the equipment is intact and the laser mirror is clean and free of contamination as a matter of priority.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

FCC Part 15.21 Statements:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF exposure statements:

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

Installation Specifications: Before starting to operate the LumiTool F20, please refer to the instruction manual to fix the main unit (with accessories or support objects that have a fixing function, such as a protective cover, a motorized stand, and a third axis) to avoid dropping it due to unstable placement.

Before starting the laser to start engraving, please make sure to do a good job of safety measures, for example, by adding a protective cover, wear goggles to prevent the laser accidentally hurt the eyes or skin, remove irrelevant items to prevent unnecessary damage caused by the laser irradiation, in particular, to remove flammable and explosive items to prevent the cause of a fire.

In the laser start after the beginning of engraving items, do not move the equipment, so as not to cause the equipment to stop working due to self-protection, or even due to the displacement of the engraved items and affect the final effect of the engraving

work.

If you must move the equipment or the engraved object, please do so before you start engraving or after you have finished engraving, do not move the equipment or the object during the laser work.

Due to the danger of the laser, do not allow minors, children, or people who do not have the sense of self-protection to approach the equipment in operation.

Before using this product to engrave objects, please check that the objects to be engraved will not release toxic and harmful gases during the laser burning process to avoid poisoning accidents.

If there is any odor or smoke during the engraving process, please use a fan to blow it away in time or place it in a spacious and ventilated place for operation.

Before using this product to engrave items, examine whether the item to be engraved has total reflection or diffuse reflection characteristics, such items should pay special attention to safety protection (it is recommended to use a whiteboard pen to blacken the engraved area before engraving).

Do not use LumiTool F20 to directly irradiate human or pet skin or eyes, as this may cause irreversible damage.

9.Liability Statement:

Thank you for purchasing the Lumitool F20, the contents of this document are related to your safety and legal rights and responsibilities. Before using this product, please read this document carefully to ensure that the product is set up correctly. Failure to observe and follow the instructions and warnings herein may result in injury to you and others around you, or damage to the Lumitool F20 or other items around you. By using this product, you are deemed to have carefully read the disclaimer and warning information, and to understand, recognize and accept the full terms and content of this statement. You undertake to take full responsibility for the use of this product and the possible consequences. You undertake to use this product only for normal purposes and agree to any regulations, policies and guidelines set forth herein, and Lumitool F20 shall not be liable for any damages, injuries, or liabilities arising directly or indirectly from the use of this product. Users should follow all safety guidelines including but not limited to those mentioned herein.

10.About Us:

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