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xTool HJ003_快速指南_V1.0_D2.1.7 料号: KD010984000 成品尺寸: 210*280mm 展开尺寸: 420*280mm 材质: 封面250g铜版纸,内页105g铜版纸 工艺: 封面覆哑膜,双面CMYK印刷,骑马钉



MetalFab CNC Cutter



Quick Start Guide

Kurzanleitung | Guía de inicio rápido | Guide de démarrage rapide | Guida rapida | Korte handleiding | Manual de referência rápida | Skrócona instrukcja obsługi | クイックガイド | 빠른 시작 가이드 | 快速入門指南 | 快速使用指南

XTOOL

D2.1.7_KD010954000



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List of items - - - - - - - -

Meet xTool MetalFab CNC (

Preparation before assemb

Assemble the riser base - -

Install the welding head--

Place a material - - - - - -

Use xTool MetalFab CNC C

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Cutter	_	_	_	_	_	_	_	_	_	04
bling	_	_	_	_	_	_	_	_	_	06
	_	_	_	_	_	_	_	_	_	10
	_	_	_	_	_	_	_	_	_	21
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8 Laser al sticker Laser alignment



(13) Wrench



(18) Ceramic ring





(14) Storage box



(19) Screw M4*30



5 External antenna



(10) Computer connection cable



(15) Cutting tip



(20) Screw M4*10



(23) Short fixing bar





(33) Back plate of the riser base



24 Camera calibration board 25 Metal sheets

× 5

(29) Baseplate

34 Slat



(30) Exhaust fan



(35) Side plates of the riser base

Meet xTool MetalFab CNC Cutter

Structure of the main unit



Annular indicator

Effect	Machine state		
Solid white	Standing by Initializing Calibrating Processing cancelled		
Off	Sleeping		
Blinking blue slowly	Ready for processing Processing paused		
Solid blue	Processing Framing		
Solid green	Processing done		
Blinking yellow slowly	Configuring network		
Solid purple	Upgrading		
Blinking red slowly	Abnormal		
Solid red	Emergency stop button pressed		

Buzzer

Effect	
1 beep	
3 consecutive beeps	

Specifications

Product name	xTool
Dimensions	1175m
Dimensions (riser base included)	1175m
Internal working area	610 m
Maximum processing speed	400 m
Input power	Voltaç Full-lo
Connection mode	USB, \

Machine state

Reminding users to operate

Abnormal

l MetalFab CNC Cutter

mm × 1157mm × 749mm (W × D × H)

nm × 1157mm × 1230mm (W × D × H)

mm × 610 mm (W × D)

mm/s

age range: 100 V to 240 V load current: 2.5 A

Wi-Fi, Ethernet port

Preparation before assembling

Power

xTool MetalFab CNC Cutter requires 2.5 A, 100 V – 240 V single phase AC power. As for xTool MetalFab Laser Welder, refer to its Quick Start Guide for power specifications.

Do not connect xTool MetalFab Laser Welder to a standard household circuit, as it may damage both the product and the circuit.

• To ensure safety, it is recommended to install a 32 A air circuit breaker between the power supply and xTool MetalFab Laser Welder.

Shielding gas

The shielding gas should be dry, oil-free, and clean. Please prepare gas cylinders or gas generators that meet requirements.

Supported gas types:

- Nitrogen
- Argon
- Oxygen
- Compressed air

The product does not come with a gas cylinder or gas generator. Please purchase one separately. purchase one separately.

xTool MetalFab Laser Welder

• xTool MetalFab CNC Cutter needs to work with xTool MetalFab Laser Welder. During laser processing, xTool MetalFab Laser Welder is responsible for emitting laser, while xTool MetalFab CNC Cutter for controlling the processing.

• Since only the metal cutting function of xTool MetalFab Laser Welder is needed, it does not need to be assembled according to its own *Quick Start Guide*. If you have already assembled it, disconnect its power and remove unnecessary components.



Unbox and place the main unit

(1) Remove the items around the main unit in sequence.

(2) On the back of the main unit, tear open the black securing strap and unfasten it completely.



(3) Lift four leveling feet.







Manually turn the leveling feet counterclockwise to lift them.



The leveling feet should be about 1 cm above the limit blocks.

(4) Move the machine to the desired position.











Manually turn the leveling feet clockwise to lower them until they touch the ground.

Use a wrench to tighten the lower nuts clockwise.





Leave a clearance of at least 50 cm on all sides of the machine for subsequent assembly and operations.



Turn the top nuts counterclockwise until they touch the main unit base plate and use a wrench to secure . them.

Assemble the riser base

1 Lift the main unit



(1) Use a hex key to loosen the screws and take out the four fixing bars at the bottom corners.



(2) At the back of the main unit, use a Z-shaped wrench to lift the main unit.



Get at eye level with the base beam to observe the white line. If the white line is level with the base beam, it indicates that the main unit has been lifted into the correct position.



2 Install the long fixing bars



(1) Align the holes on the long fixing bars and the main unit.



(2) Use the hex key to screw in four screws to secure a long fixing bar in place. Do not tighten the screws yet.



(3) Secure the remaining three long fixing bars in the same way. Then, use the hex key to fully tighten all the screws on the four long fixing bars.



3 Install the short fixing bars



Attach the four short fixing bars to the front, left, and right sides of the machine.





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4 Install the side plates



The side plates are applicable to both the left and right sides.









Insert and tighten the screws.



Insert and tighten the screws.

5 Install the front plate



6 Install the back plate











Insert and tighten the screws.



Insert and tighten the screws.



8 Install the exhaust fan



(1) Attach the connector of the exhaust fan to that of the main unit.

Ensure that the side with arrows is facing up. Do not Ò install it upside down.







(2) Align the four grooves of the exhaust fan with four fixing pins of the main unit and install the fan. Then, gently press the fan down to make it fully seated.



Before snapping the exhaust fan into place, tuck the excess connecting wire into the hole of the exhaust fan.



(3) Install the smoke exhaust pipe to the exhaust fan.







9 Install the external antenna











1 Connect to xTool MetalFab Laser Welder



2 Prepare to secure the welding head

(1) Rotate the three wing bolts counterclockwise to take them out.



Install the welding head



(2) Move the carriage to the center.



(3) Open the toggle latch.







3 Install the cutting tip



Take out the welding head from the xTool MetalFab Laser Welder and replace the welding tip with the cutting tip.









4 Secure the welding head

(3) Align the two grooves on the side of the welding head with the two fixing pins of the carriage.



(1) Straighten the welding head cable. Ensure that the welding head does not hit the ground.





(4) Close the toggle latch.

(2) Loop the welding head cable around the back of the carriage.





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(7) Use the cable fixing block to secure the fixing ring in the right slot of the machine.

(6) Snap the cable into the clamp.





Ensure that the cable is fixed in place and doesn't touch the x-axis guide rail.



Before use

1 Connect to a power supply



(1) Connect xTool MetalFab CNC Cutter to a power supply.





(2) Rotate to unscrew the dust cap from the power connector, insert the power cable and rotate to secure it. Connect the other end of the power cable to a circuit that meets requirements.



Do not connect the product to a standard household circuit, as it may damage both the product and the circuit.
Wiring operations should be performed by a professional electrician.
For more details, see xTool MetalFab Laser Welder's *Quick Start Guide*.

2 Check the emergency stop button

Ensure that the emergency stop buttons of the two machines are released. If they are pressed, rotate to release them.



4 Insert the key



Insert the key into its designated port of xTool MetalFab Laser Welder.



You can use the key either as an access-control key or a remote interlock connector. Ò

Access-control key

Removing the key can disable the machine's processing and related functions.

Remote interlock connector

For detailed instructions, scan the QR code or visit the link.



support.xtool.com/article/1367

6 Connect the gas cylinder



(1) Insert one end of the tube into the shielding gas inlet on xTool MetalFab Laser Welder.





Press the power switches to turn on the two machines.





(2) Connect the other end to the gas cylinder. Then, open the valve according to the instructions for the cylinder.



To learn more about the structure \dot{O} and detailed operations of the welding machine, please refer to the Quick Start Guide of xTool MetalFab Laser Welder.



Place a material



Scenario 2: Place a thin material



Scenario 1: Place a thick material









(1) Place a slat with its teeth facing up and its ends fitting snugly into two slots in the working area.



(2) Place slats with one slot apart. Decide the number of slats to be placed as required.



(3) Place a material on the slats.





(1) Rotate the right fixture knob counterclockwise.



(2) Insert the right side of the material into the right fixture.



(3) Rotate the knob clockwise to tighten the right fixture.



(4) Rotate the left fixture knob counterclockwise.



(6) Move the left fixture to the right.



(5) Lift the linkage lever.



(7) Insert the left side of the material into the left fixture.



(8) Rotate the knob clockwise to tighten the left fixture.



⇒

(9) Lower the linkage lever.

Scenario 3: Place a large material





















(2) Connect xTool MetalFab CNC Cutter to your computer with the USB cable. Then, open xTool software and connect the product.



Get xTool software

(1) Visit **s.xtool.com/software** to get xTool software.





Use xTool MetalFab CNC Cutter



Popular operations

Cutting with lead-ins

Before cutting, the laser pierces the material from the outside or inside of the target design. Then, starting from this point, the laser cuts the material following the cutting trajectory, avoiding incomplete cutting or uneven cutting surfaces.



Fly cutting

When the shapes to be cut are regular shapes (such as rectangles and circles) and arranged in a certain pattern, fly cutting can cut these shapes in the same direction altogether to increase cutting speed and save processing time.



Auto nesting

xTool software supports automatic nesting of objects to be processed, so as to make full use of materials.



For more information on how to use the unmentioned accessories and operate xTool MetalFab CNC Cutter with software, scan the QR code or visit support.xtool.com/product/55



Replace the lens protector in the welding head



(1) Remove the cover on the top of the welding head.







After the lens protector is removed, it is recommended that you put the cover back to prevent dust from falling inside the welding head and causing damage.

(3) Use a tweezer or other tools to remove the gasket and lens protector.



(4) Install a new lens protector.



Do not touch the glass with your fingers or other tools during replacement as the glass may get dirty. If the glass accidentally gets dirty or dusty, use a cotton swab to clean it.

Remove the protective film on the top



Remove the other protective film

