

AM.CO.ZA FlatCUT MV-7090C/2 Dual Blades Conveyor-Feeding Vacuum Flatbed Cutting Machine Manual

Thank you for purchasing our company's products.

The following are specific instructions for using the equipment.



Preface

AM.CO.ZA FlatCUT MV-7090C/2 intelligent high-speed integrated irregular cutting equipment (hereinafter referred to as the "FC series"), (U rolling platform) (E fixed platform), is a high-speed material irregular cutting system mainly targeting non-metallic flexible materials. The FC series can process different cutting materials and can automatically and accurately complete processes such as full cutting, half cutting, creasing, marking, etc. It is widely used in industries such as advertising, electronics, PVC/TPU/TEP/DTF automobiles, decoration, labeling, clothing, home furnishings, etc., achieving the characteristic of one machine with multiple uses.

In order to facilitate your better use of this equipment, this operation manual is written to cover all aspects of equipment introduction, equipment installation, basic operation, precautions, to simple troubleshooting. Before you use the machine for the first time, please read this manual carefully to make the machine operate better and play a better role in processing.

Please keep this manual properly. If you are unfamiliar with the FC series or if there is a system malfunction, reviewing this manual will provide you with some assistance.

The copyright of this manual belongs to the manufacturer. If the content in the manual is not fully functional due to equipment upgrade factors, the actual situation of the equipment shall prevail without further notice.

If you encounter operational or equipment malfunctions, please contact the manufacturer's technical personnel in a timely manner.

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1. Equipment Parameters

Machine model FlatCUT MV-7090C/2

Basic cutting mode cutting area 680MM * 880MM (U-shaped Rolling feed can be automatically extended, processing mode selection 0)

Contour cutting mode cutting area 630MM*830MM (U-shaped Rolling feed can be extended automatically, processing mode selection 1)

Single sheet contour cutting mode cutting area 600MM*800MM (U-shaped Rolling feed stop, processing mode selection 2)

Air pump power 1.5KW

Total rated power 2.2KW

Maximum cutting speed 1000mm/s

Maximum cutting thickness 0.5-3 mm (optional special tool)

Support software SINGMASTER CDR AI CAD Flexi Engraving Master Wentai

Working environment Temperature: 0°-35°; **Humidity:** 35%-80%

Transmission system Servo motor drive, imported grade linear guide, precision bearings, steel wire belt

Working voltage AC 220V±10%, 50HZ

Transmission port USB U disk WIFI (optional)

Fixed method vacuum adsorption

Operating interface 4.3 inch touch screen+computer

Feeding method Automatic rolling feed

Main tools Tool holder, tool, pen holder, creasing knife (optional) contour cutting positioning

Overall size 1480 * 1180 * 1000mm (excluding operating platform)

Packing size 1600*1300*1300mm

Equipment Weight

Net weight 0.2 tons; **Gross weight:** 0.25 tons

Cutting Material

DTF/crystal cup, TPU/PET/PVC/photo paper, car stickers, PP backing, reflective film, cardboard, stickers, instant stickers, photo paper, super transparent, single hole transparent, magnetic stickers, etc.

2. Handling Instructions

1. The equipment is divided into special vehicle transportation or international standard wooden box packing logistics transportation by different transportation distances in the transportation process.
2. Strong vibration and collision should be prevented in the transportation process.
3. Forklift or crane should be used for loading and unloading when handling, brutal loading and unloading is strictly prohibited.
4. Carefully and gently when handling, in accordance with the outer packaging instructions arrow for operation and placement.

5. Do not place the unloaded equipment in water piles or wet places.

3. Installation Site

Enough space should be reserved for operation to ensure a level ground and a good environment. It is forbidden to be placed in places containing corrosive gases and liquids, avoiding places with water drops, steam, oily dust, flammable and explosive gases, floating dust and metal particles.

The ambient temperature is within the range of 0°C-40°C; the ambient humidity is within the range of 1%-75%. Avoid close to heat sources, static electricity, strong magnetic, so as not to interfere with the transmission of equipment; should not be placed in places with strong light, avoid direct sunlight on the machine, affecting the service life.

4. Power Requirements

The chassis uses a 220V/110V \pm 10%/50HZ standard power supply, and the air pump uses a two-phase 220V \pm 10% (110V optional) to ensure stable power supply; If the power supply is unstable and the single-phase voltage fluctuation range exceeds the power supply requirements, it is recommended to install a voltage stabilizer; Avoid using the same power supply as other high-power or interfering electrical appliances to maintain power stability; Equipped with an air switch of no less than 16A, the power supply has good grounding protection or independent grounding.

5. Air Compressor

1. Self provided air pump

One self-contained small air compressor with a pressure of 0.7 Mpa and an air storage tank capacity of over 8 liters.

6. Machine Installation

1. Insert the machine plug into the power supply



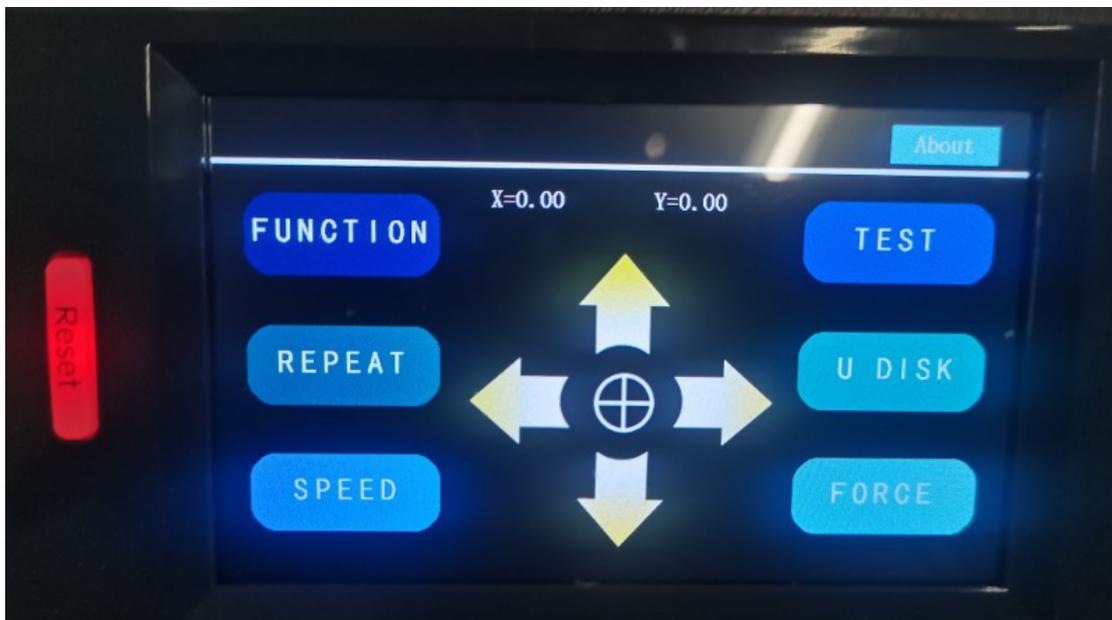


2. Air compressor power up (round red switch up pull up, gas switch valve toggle to ventilation, 8MM gas pipe into the oil-water separator air inlet pipe) to determine the success of the pressure gauge start (regular monthly processing oil-water separator in the water put away, long time not clean up to increase the cylinder work resistance to damage)

3. Air switch up toggle is in the open state



4. Power on the operation console



REST touch screen restart

Red switch is emergency stop switch, by direction knob to power on

Metal switch, press down to power on the machine

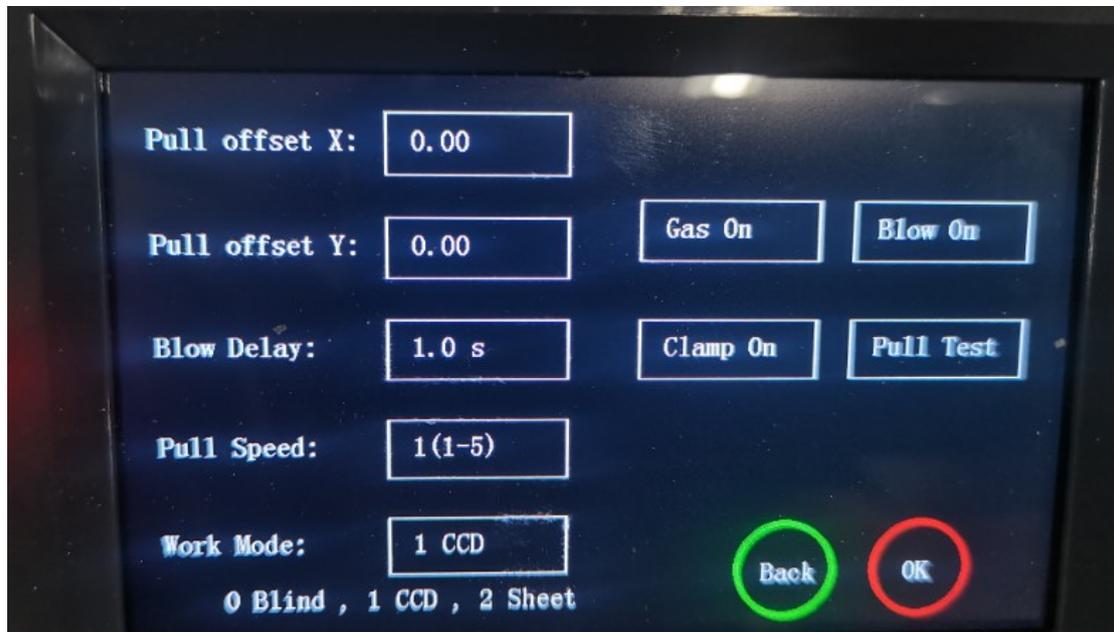
5. Machine Usage

5.1 After the machine is powered on, it begins to reset the mechanical origin. After the machine is successfully reset, wait for the camera in the bottom left corner of the touch screen to start successfully, for about 10 seconds

5.2. Use the direction keys to move the machine's carriage position to the processing material location, install the tool holder and cutting tool, click the touch screen test button, and adjust the machine cutting tool, pressure, and tip length through the test effect

5.3. Installation material Click the direction key to move the gantry of the machine towards the Y+ direction of 400MM -450MM, then click the middle + key to enter the signal testing page. Click on the material removal test, and the machine will conduct three automatic material

dragging experiments. After the experiment is completed, the machine is in a signal waiting state. Machine testing has been successful, and software layout and machine processing can begin.



Pull Offset X Default to 0

Pull offset Y default to 0

Blowing delay Default to 1.0 s, 1 second, modified according to material thickness, the larger the value, the longer the upward blowing material time, used with pulling material

Pull speed Default to 1, the larger the value, the faster the pulling speed of the material, can be adjusted according to the material

Work mode 0 is basic cutting mode 1 is contour cutting 2 is single sheet material cutting A4/A3 category

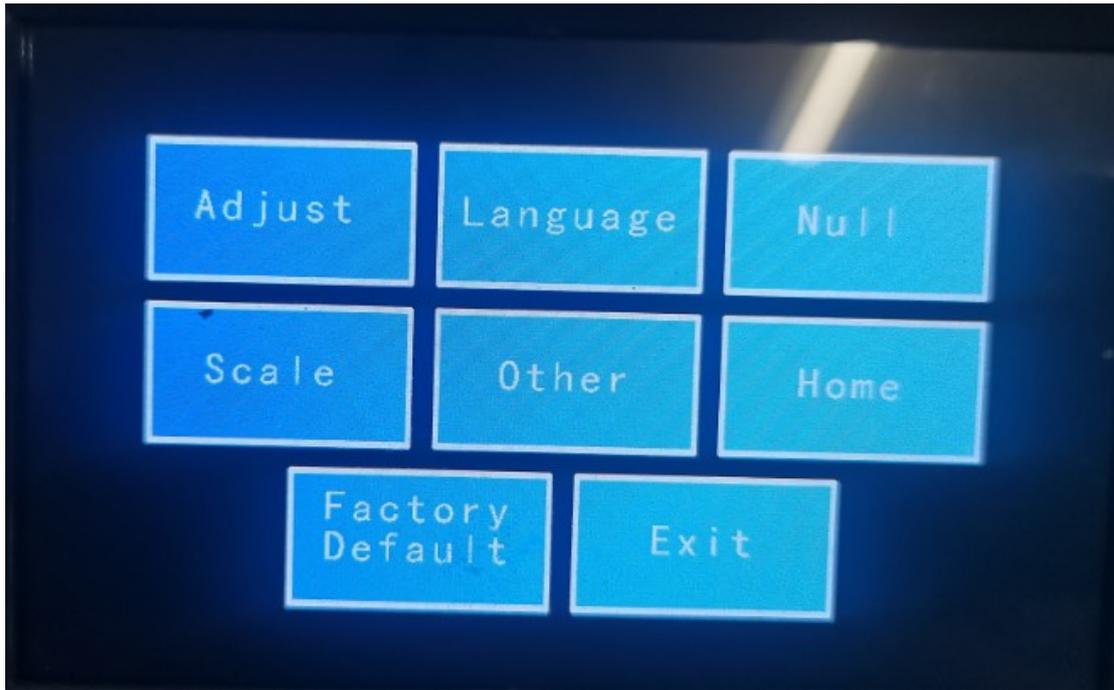
Air pump switch Test vacuum pump downward adsorption material capacity

Clamp switch Test cylinder clamping force

Blow switch Test the ability of the vacuum pump to blow material in the reverse (upward) direction under vacuum conditions

Pull test Move the machine to Y+400MM -- -450MM, click, and the machine will automatically test the correctness of the pulling, blowing, and clamping signal.

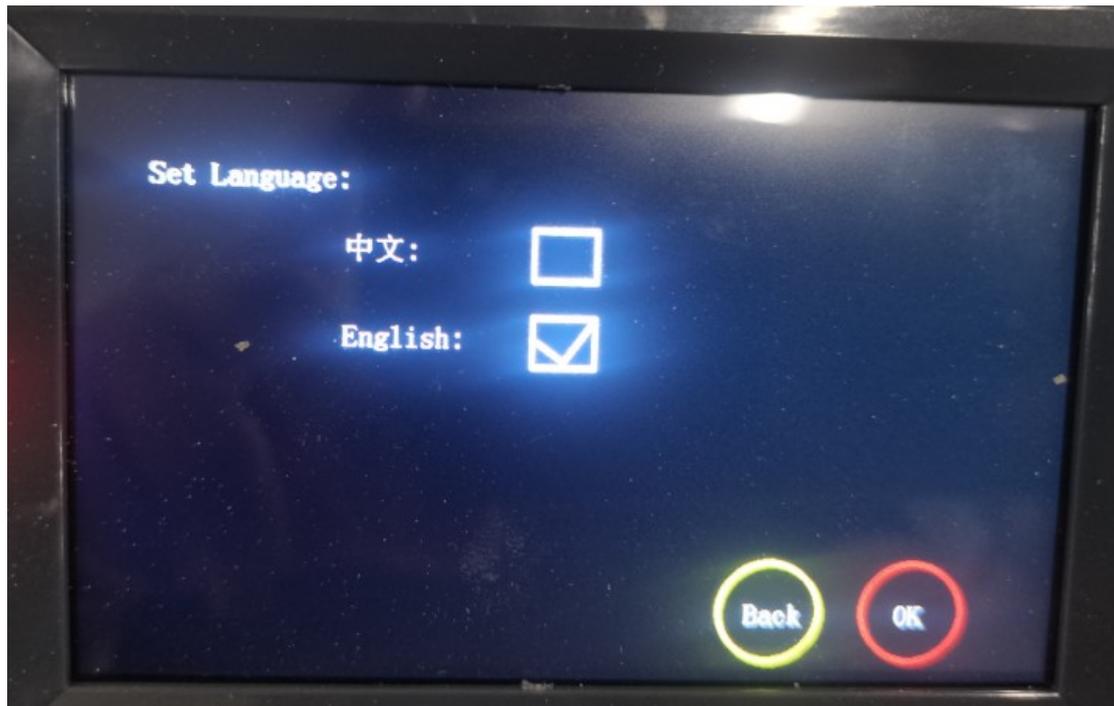
Main screen Click the function to enter the submenu



Click Adjust (click before mounting pen holder, place plain A4 copy paper, machine moves into material, test camera to carving knife offset value to ensure accuracy of contour cutting, square calibration, fine tuning cross test (need to manually move machine and draw cross alignment), PXY for tool 2 and tool 1 offset value.



Language Chinese, English, and other languages can be customized



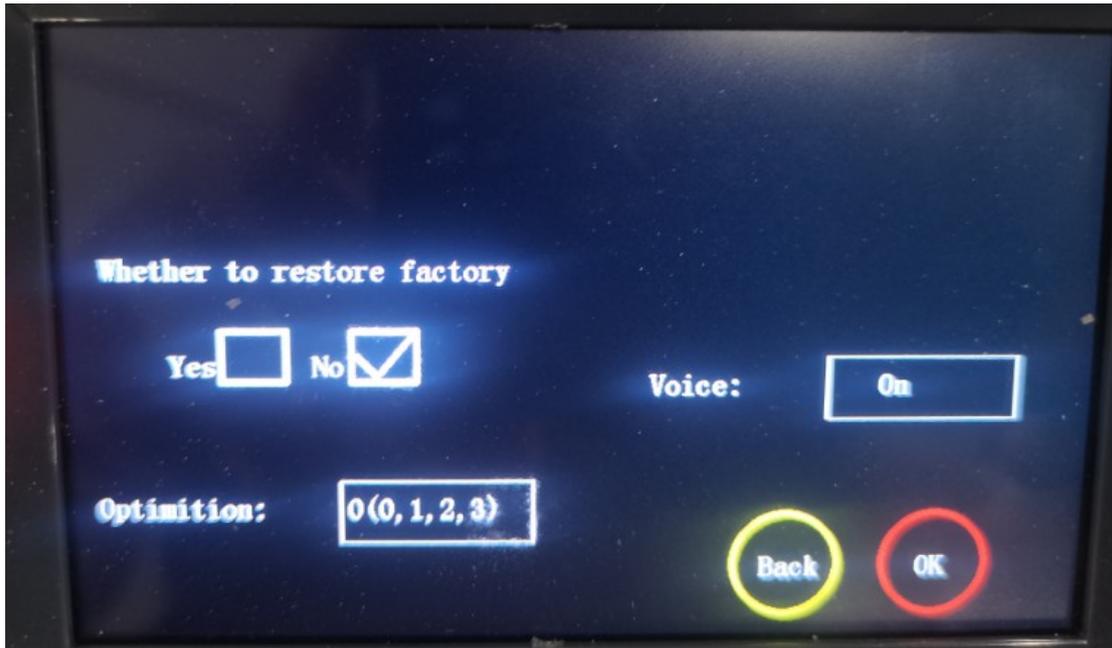
Proportion

Machine X axis Y axis Computer design size and actual cutting size 1:1
Factory debugging has been completed before, the initial password is 1234 (non-professionals are prohibited from adjusting)

Machine mechanical parameters and camera operating mode selection
Factory debugging has been completed before, the initial password is 1234 (non-professionals are prohibited from adjusting)

Origin

The factory settings have been completed, no modification is allowed
Factory value



Restore factory parameters or not

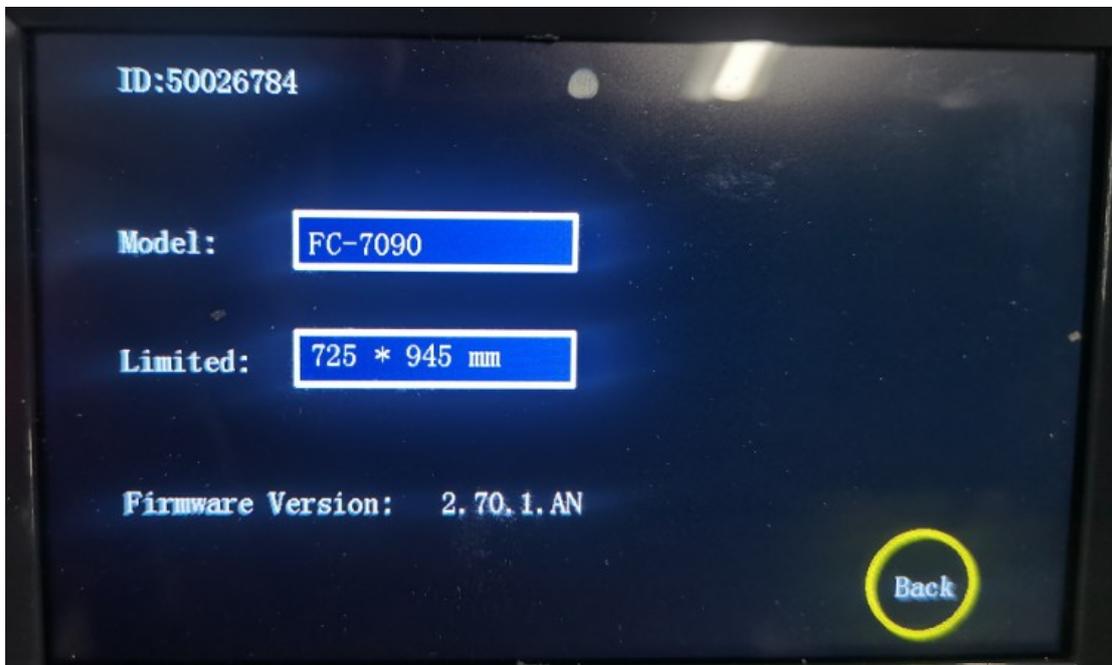
Select No (the machine has already been set at the factory)

Optimization 0123

Processing efficiency 0 fast, 3 slow (the smaller the value, the faster the processing)

Voice

Main screen Top right corner About this machine



Machine ID

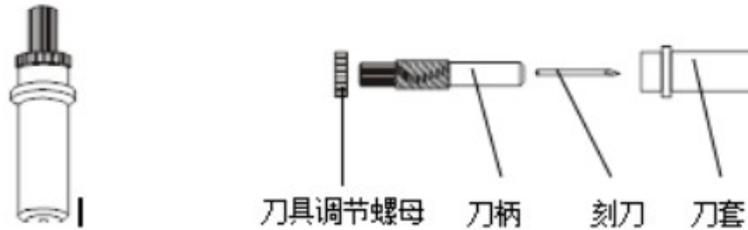
Machine model

Limit stroke (software limits machine processing movement stroke)

Firmware version (this machine firmware version record)

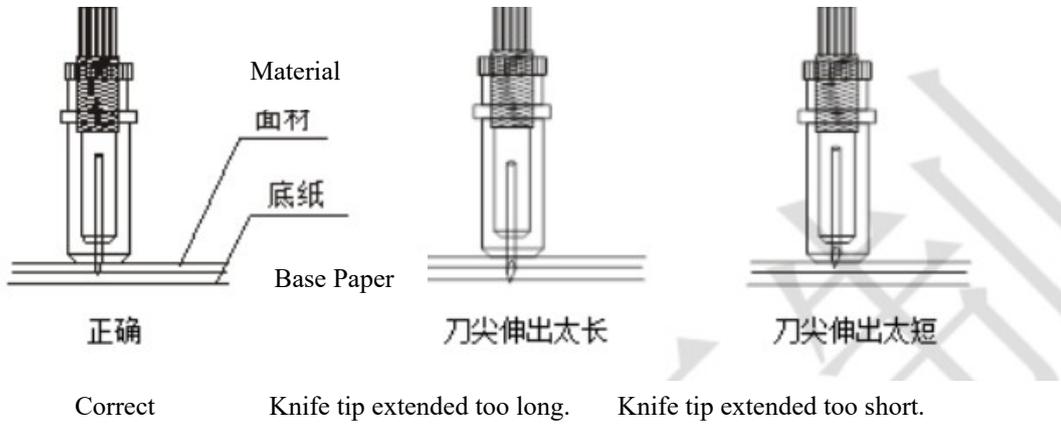
6 Knife holder adjustment

Blade holder Carving knife Adjustment diagram



根据不同的切割介质，需要随时调整刀尖伸出的长度。
Tool adjusting screw Knife handle Cutter Knife cover

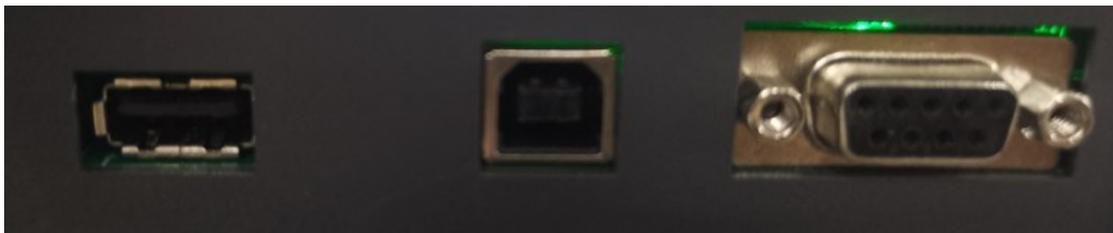
According to different cutting media, it is necessary to adjust the length of the tool tip extension at any time.



7 机器图解 Machine diagram



A Air Clamp B Felt C Roller D Frame E Fuma Wheel F Vacuum Pump O Tool 1
N Tool 2 M Camera L Right side housing K Emergency stop switch J Power on/off switch I
Touch screen H USB port G U disk port



Machine accessory box with warranty card certificate, cutter holder, engraving knife, USB cable, pen holder, indentation knife (optional) software

The machine is modified without authorization and does not enjoy warranty service

Due to the continuous upgrading of the machine, the parameters are subject to change without notice.