ELECTRIC STRAPPING MACHINE

MANUAL NO. 8745

CONTENTS

SAFETY INSTRUCTION

Please review these instructions carefully. Failure to follow them could lead to operator injury during operation.

1. Battery operation

Environmental protection:

1) Do not dispose of used batteries in household trash cans, wastewater tanks, or by burning them.

Short circuit

1) Do not store batteries and other metal objects together.

2) Do not open the battery. Store batteries in a dry, frost-free environment. The maximum temperature is 50°C. Ensure they remain dry at all times.

3) Do not attempt to charge depleted batteries. Replace them immediately.

2. Eye injury hazard

Failure to wear safety glasses with side shields can result in eye damage or even blindness. Wearing safety glasses with side shields is a requirement.

3. Operation

Personnel who are not properly trained are not allowed to operate the strapping tool. Before tightening straps, read and understand the operating instructions thoroughly. Failure to follow these instructions or improperly loading the straps could result in damage to the straps. Please ensure your fingers are kept away from any areas where squeezing or cutting could occur. Familiarize yourself with the strapping tool before using it.

4. Adhesion position

You should inspect the position of the pressure-based adhesion. Familiarize yourself with adhesion control and regulation. Irregular adhesion could potentially be unsafe and may lead to serious injuries. Please refrain from shipping containers that have not been properly packaged.

5. Straps distribution

Please use the specially-designed distribution device to distribute the straps. When not in use, fold the strap end into the distribution device.

6. Straps warning

Do not use straps to drag or lift loads, as this can easily lead to personal injury.

7. Straps broken hazard

Improper operation, excessive tensioning, or misuse of straps can result in loss of tightening force or breakage of the straps. The following hazardous situations could potentially occur:

The operator could lose balance and fall.

The strapping tool and straps could swiftly fly towards the operator's face.

⚠ Attention:

1) If the load angle is very sharp, please add edge protection.

2) Please wind the straps around the suitable load surface.

3) When tensioning and adhering, if the operating personnel and straps are aligned in a straight line, there may be a risk of injury from flying straps or the strapping tool. Therefore, when operating, please stand beside the straps and keep spectators at a safe distance. Please use the recommended straps of good quality as per the instructions, ensuring they are of a suitable width, size, and strength. Using straps that do not match the recommended specifications may cause damage during the tensioning process.

8. Tensioning straps shearing

When shearing straps, please use an appropriate shearing tool and maintain a safe distance from others. Do not stand in line with the straps and stay clear of the direction in which the straps may loosen. Use a specialized tool specifically designed for shearing straps. It is prohibited to use hammers, pliers, hacksaws, axes, etc.

9. Fall hazard

Maintain a clean and tidy work area to prevent potential hazards. An untidy work area is likely to cause damage. Improper tensioning or imbalances can lead to falls, especially in stair areas. Therefore, it's important to maintain body balance. Ensure both feet are planted on a flat and solid surface. If you feel uncomfortable, refrain from operating the tool. Please pay close attention to the specific precautions mentioned for your work area.

10. Strapping tool hazard

1) A well-maintained strapping tool is necessary.

2) Inspect periodically for broken or worn parts. If there are cracked or worn parts, do not use the machine.

3) Do not modify the machine, as it may cause personal injury.

TECHNICAL PARAMETERS

1. Description

The manufactured strapping tool uses plastic straps. Manually use the strap feeding device to wind the plastic straps around the box (bag). The end of the strap is inserted into the strapping tool and is automatically tensioned, separating after friction adhesion.

2. Size of strapping tool

Length: 14.56"

width: 5.51"

Height: 5.31"

Weight: 7.49lb

Battery weight: 1.32lb

3. Straps materlal

Quality: flat or embossed PET (polyester) and PP (polypropylene) straps.

Applicable size : 1/2inch -5/8 inch （width)

0.4mm-1.20mm （thickness）

Please choose the approriate size according to strapping tool you purchased.

4. Straps strength

Tensile strength: 400-3500N adjustable.

(Maximum value depends on the quality of straps.)

Tensioning speed: 180mm/s

Adhesive strength: about 75%of plastic straps.

(Depending on the quality of straps)

5. Working temperature

Ambient air temperature is 41˚F— 113˚F.

Optimum working temperature is 59˚F — 68˚F.

ACCESSORY

⚠Please use the parts and accessories that mentioned in the operating instructions.

To use other accessories may hurt you and others.

1. Battery powered strapping tool

As some strapping tools may use NiCd (nickel cadmium) or NiMH (nickel metal hydride) batteries, please purchase the battery for this tool according to the following parameters.

Type: Lithium battery

Voltage: 18V

Capacity: 5.0Ah

2. Battery charger

Standard charger:

INPUT: 50/60Hz, 100-240V

OUTPUT: 10.8-18V Max DC == 3.5A

Charging time:

Lithium battery 5.0A/h, charging time is approximately 90 minutes.

OPERATING ELEMENTS

Red button 2 is welding button.

Red button 1 is tensioning button.

OPERATION

1. Installation

1) Please do not put the strapping tools in the rain!

2) For security, the battery is not charged when delivery.

3) Before using, please charge.

Insert the battery:

1) Push the battery box cover assembly upward by arrow direction, and insert the battery into slot from up to down.

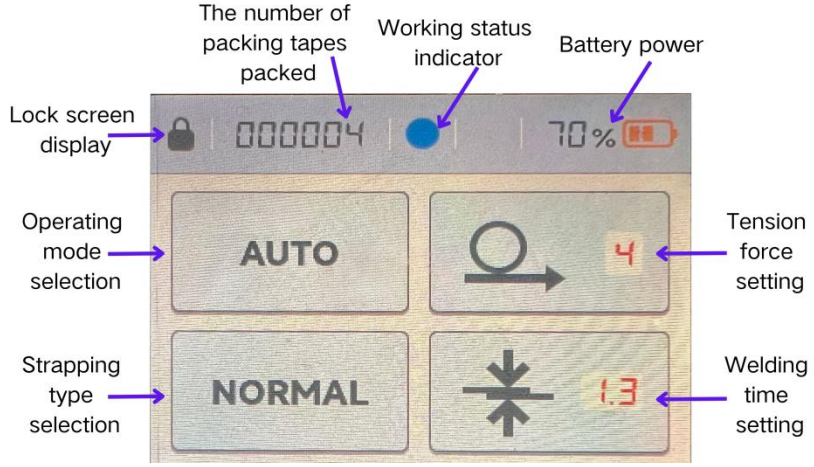
2) When inserting the battery, electric quantity state will show for a short time.

3) Battery charge status is displayed by the LED indicator.

If LED flashes in red when tensioning or welding, which indicates that the battery power runs out, all electrical functions will be stopped.

Adhesion insufficient

⚠ Warning: If the adhesion is not sufficient, please remove the straps! The battery must be charged.



2. Operation function description:

After unlocking, briefly press the operation mode switch area interface to cycle through three modes (automatic, semi-automatic, and manual).

3. Tensioning force adjustment:

After unlocking, briefly press the Tensioning gear selection area to display the Tensioning force adjustment interface . Press  to increase the tension gear value, and  to decrease the tension gear value. (The gear value is displayed as 1-9, with the minimum tension in the first gear and the maximum tension in the ninth gear). After adjusting, press the  button to return to the main interface.

4. Welding time adjustment:

After unlocking, briefly press the welding time adjustment area to display the interface on the right. Press  to increase the welding time, and  to decrease the welding time (each adjustment time is 0.1s, with a welding time range of 0.5-3.5s).

After the adjustment is completed, press the  button to return to the main interface.

5. Normal mode and flexible mode selection:

After unlocking, briefly press the area interface to switch between normal and flexible modes. The normal mode is suitable for PET belt packaging, while the flexible mode is ideal for PP belt packaging.

6.Lock settings:

① In the absence of packaging operations, the packaging machine enters a sleep state after 120 seconds. To wake it up, press the pull-down button to enter the working state.

② Screen Lock: The touch screen automatically locks 30 seconds after inactivity.

③ Unlock: Briefly press any adjustment area on the touch screen and release it. At this point, the unlock interface will appear on the screen.

7.Operational process descriptions ：

①： Straps winding：

Wind the straps as shown in the figure.

⚠ Warning! Keep away from oil, grease and other dirt when welding plastic straps. Dirty straps can't be welded.

②. Straps inserting

Lift the handle with your right hand, insert straps with left hand stack the two pieces horizontally, release the handle.

③.Operational descriptions of various modes:

Full automatic mode: Short press the tension button, and the belt will be automatically tightened. After reaching the set tension value, it will be automatically welded and cut.

Semi automatic mode:Press and hold the tension button until the predetermined tension value is reached, then the machine will automatically weld and cut the tape. If the tension button is released midway, the tension wheel will stop rotating. At this point, the fusion button needs to be pressed, prompting the packaging machine to initiate fusion and strip cutting.

Remark: Press tensioning button all the time until the LED displays in purple, tightening protection doesn't affect next step.

Keep strapping tools balanced to prevent shifting during tensioning. Please do not obstruct the moving direction of the strapping tool.

Manual mode: Press the tensioning button and hold until the straps reach the desired tension strength, then release the switch knob.

Note: Keep pressing the tensioning button until the LED display turns purple. The tightening protection will not affect the next step.

 ***Please ensure tools for strapping remain balanced when tensioning. Avoid obstructing the movement direction of the strapping tool.***

Press the welding button, then immediately remove your hands. The plastic strap will be welded and any excess strap will be cut off. During welding, the LED will display either green or purple. Once the welding is completed, the process is complete.

④. Remove strapping tool

Lift the handle and loosen the straps, then pull the machine to the right side and away from the straps.

If the strapping machine is stuck and not moving, you must first remove the battery, then cut the strapping strap. Afterward, remove the panel screws and then take out the strapping strap.

⑤ Adhesion control

Correct adhesion:

Weld the entire width of strap, the welding length is about 19 mm.

A small amount of molten plastic is allowed to overflow the edge.

Welding time is too short:

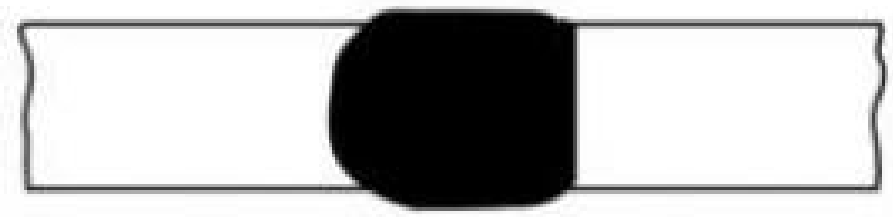
The entire width is not welded and the adhesion is insufficient.

⚠ **WARNING! Straps with insufficient welding must be removed. Adjust the welding time.**

Welding time is too long:

Such as if welding time is too long, straps are overheated, molten plastic overfiow two sides. Adhesion effect is affected.

⚠ **WARNING! Straps with not enough adhesive strength must be removed. Adjust the welding time.**



WORN PARTS REPLACEMENT

⚠ **Every time maintenance, please remove the battery.**

Cutter: first remove the left shield screw and remove it. Then remove the screw on the cutter and remove il. Take out the cutter, Keep the cutter spring; install in reverse order.

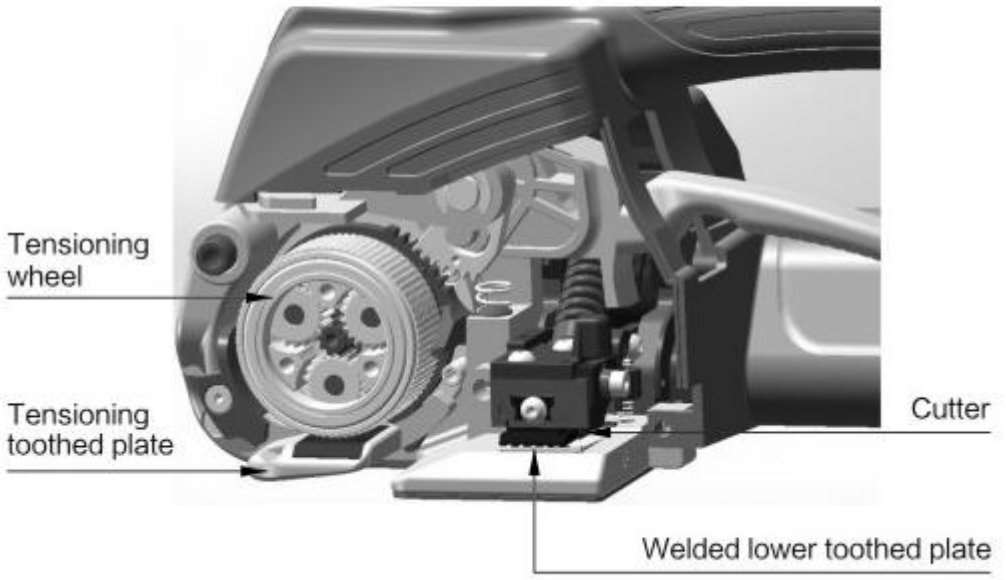
Welding tooth plate: remove the fixing screw of the fusion lower tooth plate to remove the fusion lower tooth plate; install in the opposite order.

Tensioning toothed plate: remove the screw fixing the toothed plate on the base, lift the handle to take out the toothed plate for replacement, and install it in the reverse order.

Tensioning wheel: first remove the left cover screw and remove it, then take out the tension wheel, and then take out the two bearings on the tension wheel; install in reverse order.

Cutting belt adjustment

Cutter adjustment: if the cutting belt is not smooth, replace the cutter or cutter spring. Refer to the above vulnerable parts for replacement.


Tensioning wheel
Tensioning toothed plate
Cutter
Welded lower toothed plate

COMMON FAULTS

1. Special reason: If the machine stuck in strapping process, which results straps stuck in the machine and can't be removed. Immediately cut off power, cut the straps, remove the screws on the left and right panel covers and move, remove the straps, and check the machine. Check the lines on travel switch fall off and replace micro switch.

2. Press the welding and tensioning button, if motor doesn't rotate, check the motor and micro switch, and replace the motor and micro switch.

3. Machine Fault Code Description：

-E0.1: Battery High Temperature Alarm Fault

-E0.2: Battery Low Temperature Alarm Fault

-E0.3: Battery matching error fault

-E0.4: Battery undervoltage fault

-E0.5: Circuit board high temperature alarm fault

-E0.6: Tensioning motor short circuit fault

-E0.7: Tensioning motor tightening for 10 seconds timeout fault

-E0.8: Welding Motor Short Circuit Fault

-E0,9: Motor stuck rotor fault

-E1.0: Excessive welding cutrent protection fault

-E1.1: Tensioning microswitch faliure

-E1.2: Welding microswitch fault

-E1.3: Rewind switch malfunction

-E1.4: Reset switch failure

If the above fault display appears, you can press any key to eliminate it and enter standby mode. If it cannot be restored to normal, please contact us for resolution.

Contact

Feel free to visit our website:

www.ussolid.com

You can also email us at: service@ussolid.com