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U.S. Solid Electric Strapping Machine USS-ESM00026 User Manual

Model: USS-ESM00026

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your U.S. Solid Electric Strapping Machine, Model USS-ESM00026. Please read this manual thoroughly before using the machine to ensure proper function and to prevent injury or damage.

The U.S. Solid Electric Strapping Machine is a battery-powered, handheld automatic banding tool designed for securing packages, boxes, and pallets with PET (polyester) strapping. It integrates tensioning, welding, and cutting functions into a single device, enhancing work efficiency and reducing manual effort.

LED DISPLAY PANEL

2 OPERATION MODES, MORE ACCURATE ADJUSTMENT
OF TENSILE SYRENGTH WEDING TIME



Figure 1: Front view of the U.S. Solid Electric Strapping Machine.

2. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking. If any items are missing or damaged, contact U.S. Solid customer support.

- Packing machine (1 unit)
- Charger (1 unit)
- Tool kit (1 set)
- Battery (2 units)
- Instruction manual (1 unit)

3. SPECIFICATIONS

The following table outlines the technical specifications for the USS-ESM00026 Electric Strapping Machine:

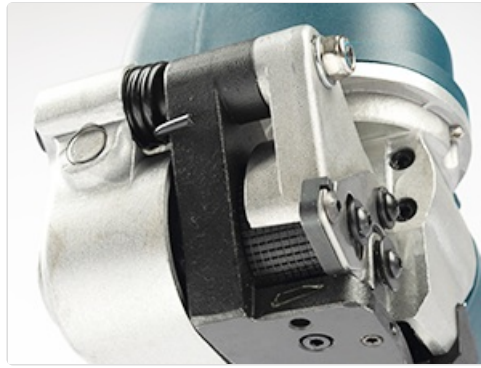


Figure 2: Technical parameters of the strapping machine.

Parameter	Value
Suitable Strap Width	1/2 - 1 inch (12-25 mm)
Suitable Strap Thickness	0.4 mm - 1.20 mm
Strap Material	PET (Polyester)
Adjustable Tensile Strength	600 - 5500 N
Tensioning Speed	60 - 200 mm/s
Battery Type	Lithium Ion (2 included)
Battery Capacity	4000 mAh per battery
Full Charge Time	Approximately 100 minutes
Straps per Full Charge	Up to 180 straps per battery (360 total with 2 batteries)
Item Weight	13.42 pounds (approx. 6.09 kg)
Package Dimensions	17.2 x 11.2 x 7.2 inches

4. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of injury or damage:

- Read all instructions before operating the machine.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep hands and loose clothing away from moving parts during operation.
- Do not operate the machine in wet or damp conditions.
- Use only the specified PET strapping material within the recommended width and thickness ranges.
- Do not over-tension straps, as this can lead to strap breakage or damage to the machine or package.
- Disconnect the battery before performing any maintenance or adjustments.

- Store the machine and batteries in a dry, secure location away from children and unauthorized users.

5. SETUP

5.1 Battery Installation and Charging

1. Ensure the battery is fully charged before first use. Connect the charger to the battery and a power outlet. The charger indicator light will show charging status.
2. To install the battery, align the battery pack with the slot at the base of the machine handle and slide it in until it clicks securely into place.
3. To remove the battery, press the release button on the battery pack and slide it out.

Battery Guidelines: Battery life varies by usage and environment. To maintain performance, avoid overcharging or leaving the battery at 0% for extended periods.



Figure 3: Battery attached to the machine.

6. OPERATING INSTRUCTIONS

Follow these steps for proper operation of the electric strapping machine:

6.1 Adjusting Tensioning Force and Welding Time

The machine features an LCD screen for precise adjustment of parameters. The display shows 'F' for tightening force and 'E' for welding time.



Figure 4: LED Display Panel for adjustments.

1. **Tightening Force (F1):** Press the left button (F) to display F1. Use the middle (▲) button to increase tension and the right (▼) button to decrease tension. Calibration ranges from 1-6.
2. **Welding Time (F2):** Press the left button (F) again to display F2. Use the middle (▲) button to increase welding time and the right (▼) button to decrease welding time. Calibration ranges from 1.0-5.0 seconds.

6.2 Loading Straps

1. Wind the straps as shown in the video. Ensure the strap that needs to be cut is stacked on top.
2. Lift the handle of the machine with your right hand.
3. Insert the two parallel straps into the machine with your left hand, ensuring they are properly aligned.
4. Release the handle to secure the straps.

6.3 Tensioning the Strap

1. Press the tensioning button (located on top of the handle).
2. The indicator light will display blue during the tensioning process.
3. Once the desired strap tensioning strength is reached, release the switch knob. Do not press the switch knob beyond the desired tension to avoid breaking the straps.

6.4 Welding and Cutting the Strap

1. Press the welding button (located on the side of the handle). Immediately remove your hands from the machine.
2. The plastic strap will be welded, and the redundant strap will be cut off.
3. The welding process is complete when the indicator light flashes blue.

6.5 Removing the Machine

1. First, press the rewind button at the bottom of the machine.
2. Then, lift the handle.
3. Finally, remove the machine from the strapped package.

6.6 Operational Video Guide

Watch this video for a visual demonstration of the strapping machine's operation, including strap loading, tensioning, welding, and removal.

Video 1: Demonstration of the U.S. Solid Electric Strapping Machine in use, showing the full strapping process.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your strapping machine:

- **Cleaning:** Regularly clean the machine, especially the strap feeding and welding areas, to prevent accumulation of dust and strap residue. Use a dry cloth; do not use solvents or abrasive cleaners.
- **Battery Care:** Follow battery guidelines to maximize battery life. Store batteries in a cool, dry place. Do not expose them to extreme temperatures.
- **Inspection:** Periodically inspect the machine for any signs of wear, damage, or loose components. Address any issues promptly.
- **Lubrication:** Refer to the detailed tool kit instructions for any specific lubrication requirements.

8. TROUBLESHOOTING

If you encounter issues with your strapping machine, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Machine does not power on	Battery not installed correctly or discharged.	Ensure battery is fully inserted. Charge or replace battery.
Strap not tensioning properly	Tension setting too low; incorrect strap loading; worn tensioning wheel.	Adjust tension setting (F1). Re-load straps correctly. Inspect and clean tensioning wheel.
Poor strap welding	Welding time too short; welding mechanism dirty; incorrect strap material.	Increase welding time (F2). Clean welding mechanism. Ensure correct PET strap is used.
Strap breaks during tensioning	Tension setting too high; strap quality poor; strap width/thickness incorrect.	Decrease tension setting (F1). Use high-quality straps. Verify strap dimensions meet specifications.
Machine jams or stops	Strap residue build-up; foreign object; internal malfunction.	Clean strap path. Remove any obstructions. If problem persists, contact support.

9. WARRANTY AND SUPPORT

U.S. Solid provides a standard warranty for this product. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your purchase or visit the official U.S. Solid website. For technical support, replacement parts, or service inquiries, please contact U.S. Solid customer service through their official channels.

You can find more information and contact details on the U.S. Solid Store on Amazon.