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## uxcell MB-445

# uxcell MB Series Standard Sewing Machine V-Belt (MB-445) Instruction Manual

Model: MB-445 | Brand: uxcell

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your uxcell MB Series Standard Sewing Machine V-Belt, model MB-445. These belts are designed for reliable power transmission in various applications, including old-fashioned household electric sewing machines, overlock machines, and small electric motors.

The uxcell MB-445 V-belt is constructed from durable Polyurethane material, offering excellent resistance to abrasion, chemicals, oil, and heat, along with a high coefficient of friction. Its design ensures even load distribution, high load-bearing capacity, and flexibility, contributing to improved power transmission efficiency and reduced slippage.

## 2. PRODUCT OVERVIEW AND FEATURES

The uxcell MB Series V-belts are engineered for durability and performance in drive systems. Key features include:

- **Material:** Manufactured from high-quality Polyurethane, providing exceptional resistance to abrasion, chemicals, oil, and heat.
- **High Friction:** Features a high coefficient of friction for efficient power transfer.
- **Power Transmission:** Designed to link two or more rotating shafts, effectively transmitting power within a drive system.
- **Load Distribution:** Ensures even load distribution across belt drives, enhancing stability and performance.
- **Durability:** Polyurethane construction contributes to a longer service life compared to traditional rubber belts.
- **Flexibility:** Excellent flexibility allows for smooth operation and adaptability to various pulley configurations.
- **Reduced Slippage:** The V-belt design minimizes slippage, leading to improved power transmission efficiency.

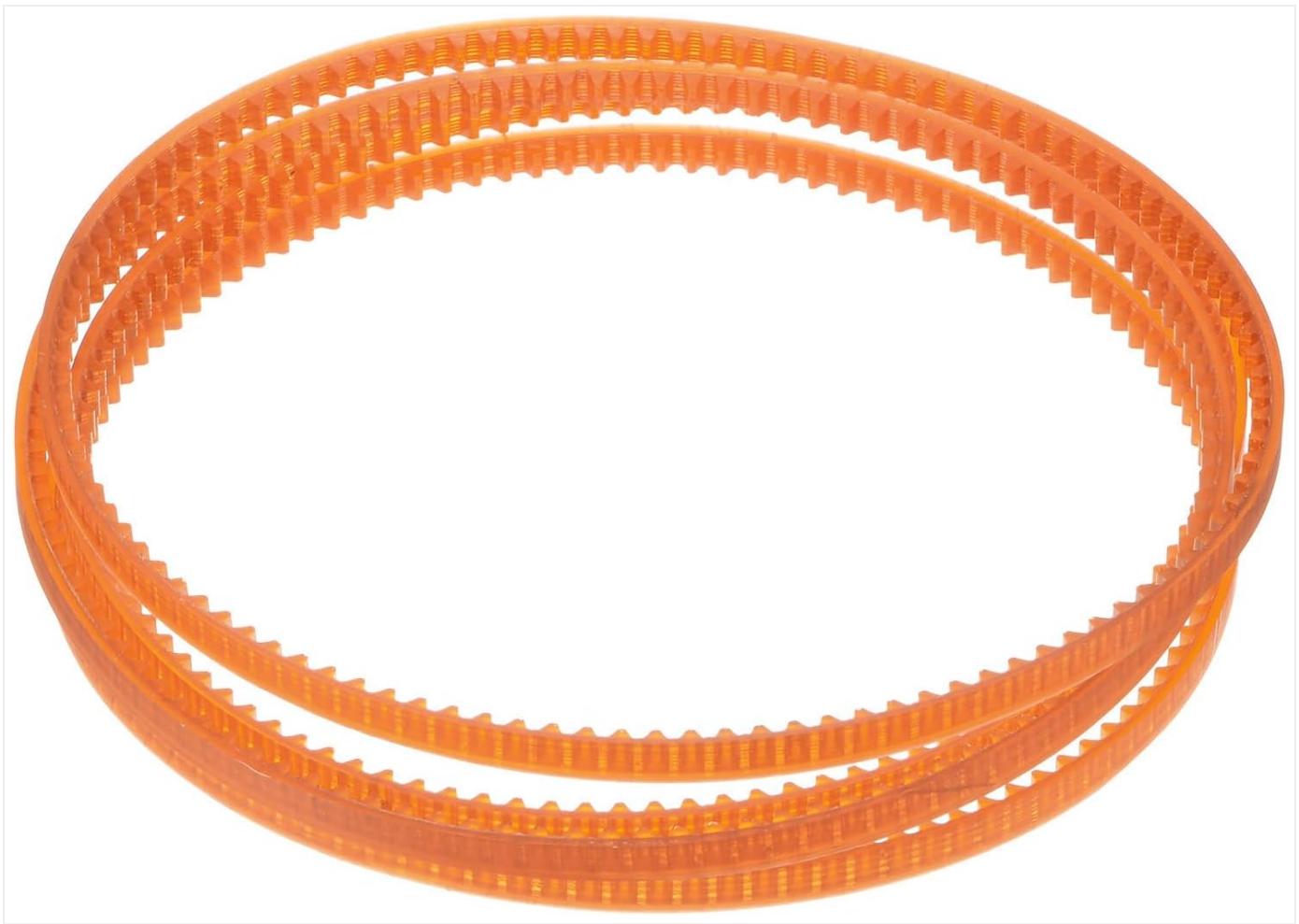


Figure 1: uxcell MB Series V-belts (MB-445) in a coiled state.

### 3. SPECIFICATIONS

Attribute	Value
Model	MB-445
Outside Circumference	445mm / 17.5 inches
Top Width	6mm / 0.24 inches
Height	4mm / 0.16 inches
Material	Polyurethane
Product Dimensions (Packaging)	5.91 x 5.91 x 0.59 inches
Item Weight	1.76 ounces (per pack of 4)
Manufacturer	uxcell

# Model: MB-445

Outside Circumference: 445mm/17.5"

Top Width.: 6mm/0.24"

Height.: 4mm/0.16"



Figure 2: Key dimensions of the MB-445 V-belt.

## 4. INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your V-belt. Follow these general steps:

- Safety First:** Ensure the machine is turned off and unplugged before beginning any installation or maintenance.
- Remove Old Belt:** Carefully remove the old or damaged V-belt from the pulleys. Note its routing for correct installation of the new belt.
- Clean Pulleys:** Clean any debris, oil, or residue from the pulley grooves to ensure proper grip and prevent premature wear of the new belt.
- Install New Belt:** Place the new uxcell MB-445 V-belt onto the pulleys. Avoid forcing the belt, which can damage it. If necessary, adjust the motor or idler pulley to create slack for easier installation.
- Adjust Tension:** Once the belt is in place, adjust the motor or idler pulley to achieve the correct belt tension. The belt should be taut enough to prevent slippage but not so tight as to strain the motor bearings or the belt itself. A common test is to press on the center of the longest span; it should deflect slightly (typically about 1/64 inch per inch of span).
- Check Alignment:** Verify that the pulleys are properly aligned. Misalignment can cause uneven wear and reduced belt life.
- Test Run:** After installation, perform a short test run of the machine to ensure the belt operates smoothly without unusual noise or vibration.

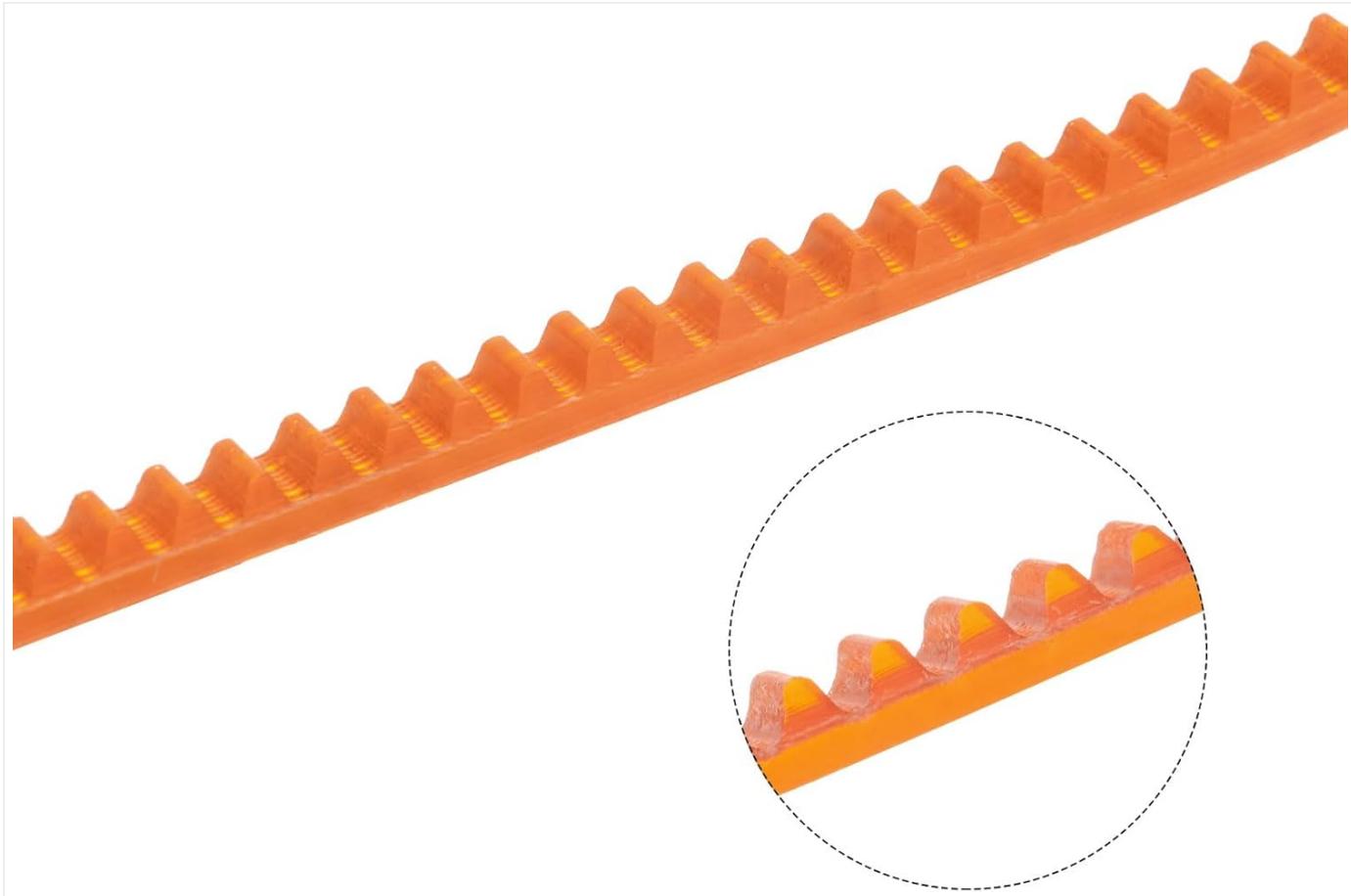


Figure 3: Detailed view of the V-belt profile.

## 5. OPERATION CONSIDERATIONS

While the V-belt itself does not have operational controls, its performance is directly linked to the machine it powers. Observe the following during operation:

- **Smooth Start-up:** Ensure the machine starts smoothly without excessive jerking or slipping of the belt.
- **Consistent Speed:** The belt should maintain consistent speed transmission without noticeable fluctuations.
- **Noise Level:** Listen for any unusual noises, such as squealing or grinding, which could indicate improper tension or alignment.
- **Heat Generation:** Monitor for excessive heat generation around the belt and pulleys, which may suggest overtensioning or friction issues.



Figure 4: The V-belt's flexible design.

## 6. MAINTENANCE

Regular maintenance extends the life of your V-belt and ensures efficient machine operation:

- **Inspect Regularly:** Periodically inspect the belt for signs of wear, cracks, fraying, or hardening. Replace the belt if any damage is observed.
- **Check Tension:** Verify belt tension regularly. Adjust as needed to maintain optimal performance and prevent slippage or excessive strain.
- **Cleanliness:** Keep the belt and pulleys free from dust, lint, oil, and other contaminants. A clean belt performs better and lasts longer.
- **Storage:** Store spare belts in a cool, dry place away from direct sunlight and harsh chemicals to preserve their material integrity.



Figure 5: Demonstrating the V-belt's thickness and material.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Belt Slippage	Insufficient tension, worn belt, oily pulleys.	Adjust belt tension, replace worn belt, clean pulleys.
Excessive Noise (Squealing)	Loose belt, misaligned pulleys, glazed belt surface.	Adjust tension, check and correct pulley alignment, replace belt if glazed.
Short Belt Life	Overtensioning, undertensioning, misalignment, contaminated environment, incorrect belt type.	Ensure correct tension and alignment, keep area clean, verify belt is correct size/type.

Problem	Possible Cause	Solution
Vibration	Damaged belt, unbalanced pulleys, misaligned pulleys.	Inspect and replace damaged belt, check pulley balance and alignment.

## 8. SAFETY INFORMATION

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Always observe the following safety precautions when working with machinery and drive belts:

- **Disconnect Power:** Always disconnect power to the machine before inspecting, installing, or performing maintenance on the belt.
- **Moving Parts:** Be aware of moving parts during operation. Keep hands, hair, and loose clothing away from the belt and pulleys.
- **Protective Gear:** Wear appropriate personal protective equipment (PPE) if required by the machine's manufacturer.
- **Proper Tools:** Use the correct tools for installation and adjustment to prevent injury or damage to the belt and machine.

## 9. WARRANTY AND SUPPORT

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For information regarding warranty coverage or technical support for your uxcell MB Series V-belt, please refer to the original product packaging or contact uxcell customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.

You can visit the official uxcell store for more products and support:[uxcell Store on Amazon](#).