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› TFCFL Industrial Sewing Machine User Manual

TFCFL sf-34

TFCFL Industrial Sewing Machine User Manual

Model: sf-34

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your TFCFL Industrial Sewing Machine, model sf-34. Please read this manual thoroughly before operating the machine to ensure safe and efficient use.

The TFCFL Industrial Sewing Machine is designed for heavy-duty sewing tasks, suitable for a wide range of materials from thin fabrics to medium-thick clothing, and even heavy materials like leather and tents. It features a connecting rod type feeding mechanism for stable operation and uniform stitches, along with an automatic lubrication system and a double-threaded large rotary hook for enhanced efficiency and stable performance.



Figure 1: Front view of the TFCFL Industrial Sewing Machine. This image shows the main body of the sewing machine, including the needle assembly, presser foot, and the handwheel on the right side.

SETUP AND ASSEMBLY

Before operating the machine, ensure all components are present and assembled correctly. Refer to the packing list below and the provided diagrams for proper setup.

Packing List:

- 1 set of winder
- 1 set of single needle two thread rack
- 1 set of machine head rubber pad
- 1 set of knee control module
- 1 set of screwdriver
- 1 support pillar
- 1 belt
- 2 oil cans

Assembly Steps:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during transit.
2. **Positioning the Machine Head:** Place the machine head onto a sturdy, level table or stand. Ensure it is stable and secure.
3. **Installing the Support Pillar and Belt:** Attach the support pillar as indicated in the diagram. Connect the belt between the machine's handwheel and the motor (motor sold separately, if applicable).
4. **Attaching the Thread Rack and Winder:** Assemble the single needle two thread rack and the winder according to the instructions. These are typically mounted behind or to the side of the machine head.
5. **Mounting the Knee Control Module:** Install the knee control module. This allows for hands-free presser foot lifting.
6. **Lubrication:** Fill the oil cans with appropriate sewing machine oil (not included) and follow the lubrication instructions in the Maintenance section to properly oil the machine before first use.



Figure 2: Overview of the TFCFL Industrial Sewing Machine components and included accessories. This image displays the main machine body, various parts, and the accessories such as the winder, thread rack, and oil cans.

OPERATING INSTRUCTIONS

Threading the Machine:

1. **Spool Pin:** Place the thread spool on the spool pin.
2. **Thread Guides:** Guide the thread through the upper thread guides, ensuring it passes through all tension discs.
3. **Take-up Lever:** Thread the take-up lever from right to left.
4. **Needle Bar Thread Guide:** Pass the thread through the guide on the needle bar.
5. **Needle:** Thread the needle from front to back.
6. **Bobbin:** Ensure the bobbin is correctly wound and inserted into the bobbin case, then place it into the rotary hook assembly.

Adjusting Stitch Length:

The maximum stitch distance is 7mm (0.27 inches). Adjust the stitch length using the dial located on the machine body. Rotate the dial to select the desired stitch length. For thicker materials, a longer stitch length is generally recommended.

Universal Fit

Meet Your Different Sewing Process Requirements



Fabric is not included.



Figure 3: Detail of the stitch length adjustment dial on the TFCFL Industrial Sewing Machine. This image highlights the numbered dial used to control the length of each stitch, with a maximum setting of 0.3 inches (approximately 7.6mm).

Using the Presser Foot:

The presser foot can be lifted manually (6mm / 0.24 inches) or via the knee control (13mm / 0.5 inches). The knee control allows for greater lift, which is beneficial when working with very thick materials or multiple layers.

Sewing Operation:

1. **Power On:** Ensure the machine is properly connected to a power source and turn it on.
2. **Position Fabric:** Place the fabric under the presser foot.
3. **Lower Presser Foot:** Lower the presser foot using the lever or knee control.
4. **Start Sewing:** Gently press the foot pedal (if applicable) or engage the motor to begin sewing. Guide the fabric smoothly. The machine can reach a maximum speed of 3000 stitches per minute.
5. **Reverse Stitching:** Use the reverse lever for back-tacking at the beginning and end of seams to secure stitches.

Sewing Assistant

Double-thread Large Rotating Hook



Figure 4: The TFCFL Industrial Sewing Machine in operation, demonstrating its use for sewing fabric. This image shows a user guiding fabric under the needle, highlighting the machine's capability for high-speed sewing.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your TFCFL Industrial Sewing Machine.

Lubrication:

This machine features an oil pump automatic lubrication system. Regularly check the oil level in the reservoir and refill as needed using high-quality sewing machine oil. Ensure the oil is clean and free of debris. Proper lubrication prevents wear and ensures smooth operation.

Cleaning:

- **Lint and Dust:** Regularly remove lint and dust from the bobbin area, feed dogs, and needle plate using a small brush or vacuum cleaner.
- **Needle Plate:** Remove the needle plate periodically to clean underneath it.
- **Exterior:** Wipe down the exterior of the machine with a soft, dry cloth. Avoid using harsh chemicals.

Needle Replacement:

Use needle type DP*5 No. 17. Replace the needle regularly, especially if it becomes bent, dull, or if you experience skipped stitches or thread breakage. Ensure the needle is inserted correctly with the flat side facing the back.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle insertion, bent needle, wrong needle type, improper threading.	Re-insert needle correctly, replace needle, use correct needle type (DP*5 No. 17), re-thread machine.
Thread Breakage	Incorrect threading, too much tension, dull needle, poor quality thread, burrs on needle plate.	Re-thread machine, adjust tension, replace needle, use good quality thread, check for burrs.
Uneven Stitches	Incorrect tension, lint in tension discs, worn feed dogs.	Adjust tension, clean tension discs, inspect and replace feed dogs if necessary.
Machine Jams	Thread tangled in bobbin area, fabric pulled too hard, incorrect bobbin winding.	Clear tangled thread, ensure fabric feeds smoothly, re-wind bobbin correctly.
Unusual Noise	Lack of lubrication, loose parts, foreign object.	Lubricate machine, check for loose screws, remove any foreign objects.

If problems persist after attempting these solutions, please contact customer support.

SPECIFICATIONS

Parameter	Value
Model	SM 6-9 (Product Model Number: sf-34)
Maximum Speed	3000 S.P.M (Stitches Per Minute)
Number of Needles	1

Parameter	Value
Needle Type	DP*5 No. 17
Maximum Stitch Distance	7mm (0.27 in)
Presser Foot Stroke (Manual)	6mm (0.24 in)
Presser Foot Stroke (Knee Control)	13mm (0.5 in)
Rotary Hook Type	2 times the thread volume of the rotary hook
Lubrication Method	Oil pump automatic lubrication
Gross Weight	35 KG (77.16 lbs)
Net Weight	29 KG (63.93 lbs)
Outer Packaging Volume	580 x 250 x 530 mm (22.83 x 9.84 x 20.87 in)
Product Dimensions	23 x 21 x 10 inches
Country of Origin	USA

Product Specification

Material:

Cast Iron, Aluminum

Treatment

Hot Treatment,
High-density Processing

Lubricating Oil:

Cast Iron, Aluminum

Sewing Speed:

Cast Iron, Aluminum

Sewing Foot Stroke

5.5mm/0.22in (Manual);
13mm/0.5in (Knee)

Stitch Length Control

Max. 8mm/0.3in

Stitch Method

Straight Line

Needle Type

DP*5 16-21#

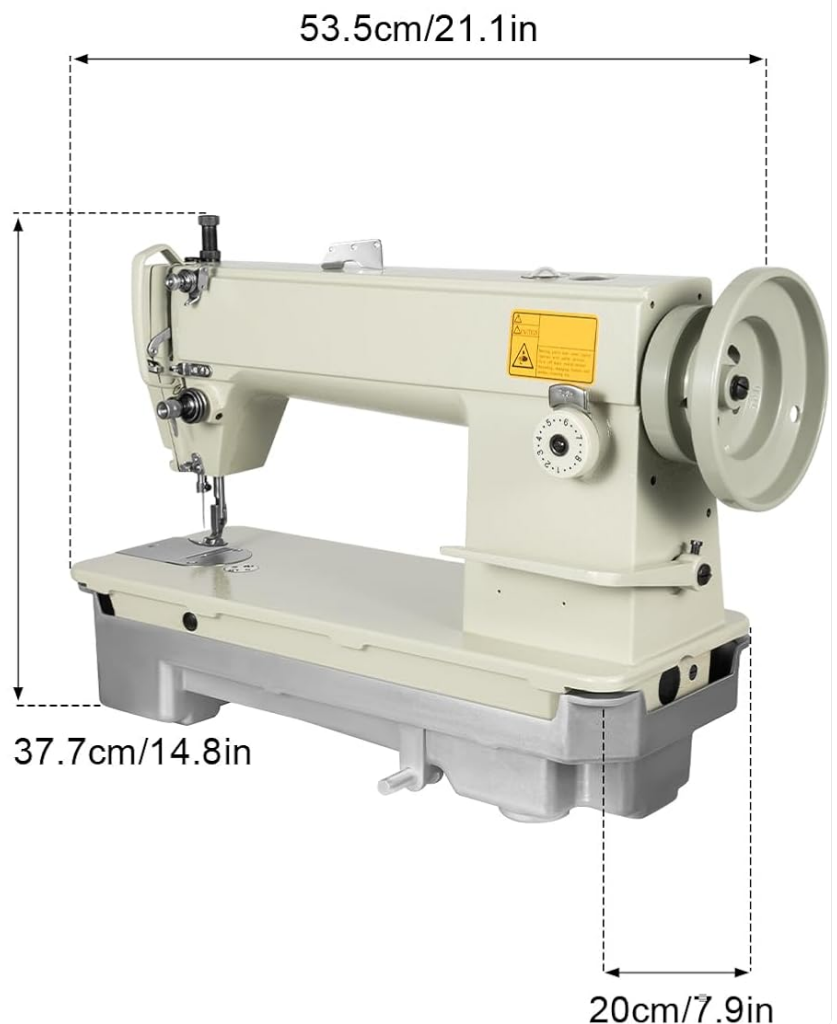


Figure 5: Detailed product specifications and dimensions for the TFCFL Industrial Sewing Machine. This graphic provides key measurements and material information.

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact TFCFL customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Contact Information: Please visit the official TFCFL website or refer to the contact details provided in your product packaging for support.

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