FS-SERIES LONG HAND SEALERS

Model: FS-600H, FS-800H, FS-1000H

Distributed By:

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Sealer Sales, Inc.
8820 Baird Avenue
Northridge, Ca 91324
www.sealersales.com

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General Information

Thank you for purchasing our FS-Series Long Hand Sealers.

This owner's manual contains information relating to your sealer. The manual will provide you with basic information concerning both operation and maintenance of your new machine. Please read it carefully as failure to do so may result in bodily injury and/or damage to the equipment.

Please fill in the information below. You will find the information on the machine identification plate. You will need this information when ordering replacement parts or making technical inquiries.

EQUIPMENT INFORMATION

- Model #
- Purchase Date:
- Reference # (found on packing slip)
- Owner:

Safety Instructions

WARNING! *Below are general safety precautions and warnings that should be understood prior to setting up or operating your equipment. Read and fully understand all instructions and warnings prior to using this unit. Your safety is most important! Failure to comply with procedures may result in serious injury or property damage. Remember:* ***Your personal safety is your responsibility.***

Unsafe practices or unauthorized modifications could result in accidents or property damage. Failure to follow these safety rules and take necessary precautions can result in serious injury as well as damage to equipment.

- Never operate or service your sealer until you have read this manual completely and understand it fully.
- Plug the sealer into a standard 120 Volt, 60Hz wall outlet or surge protector. If you have a 220 Volt unit, please make sure your warehouse has the appropriate electrical requirements.
- Do not use the sealer if the power cord, plug or any other parts are damaged. Be sure not to allow the power cord to drape into your work area. Check that all parts are operating properly and perform the intended functions. Check for any worn parts before starting operation. Check for all other conditions that may affect the operation.
- Always disconnect sealer from power source before servicing, changing accessories or cleaning the unit.
- To provide protection against the risk of electrical shock, the power connection must be properly grounded at all times.
- Do not leave the sealer unattended when in use. Disconnect the sealer from the power source before leaving the work area.
- Sealer is used solely for sealing thermoplastic materials. Using the machine for any other purpose can cause damage to the machine and operator.
- While operating machinery, wear close-fitting clothing and tie back long hair to prevent any external items from getting caught in the machine. Do not wear jewelry when operating the sealer.

- Never touch the heating elements with bare hand while the sealer is plugged into a power source, in operation or just finished operation. Touching heated areas may cause fire and/or severe burns.
- While machine is in operation, do not place fingers, tools, or other foreign objects on or into the machine. Do not place hands or fingers near pinch points. Do not touch machine while it is in operation. Perform all procedures carefully and watch where hands and fingers are at all times.
- The sealer is not water resistant or water proof. Spraying down the machine will damage machine or cause electrical shock. Do not submerge the sealer into water or liquid.
- Do not operate sealer in a corrosive or humid environment.
- Always keep the machine clean and in good working condition. Make sure unit is disconnected from power source before cleaning.
- NEVER use any accessories or parts from other manufacturers. Machine should not be altered or modified using parts that are not genuine authorized parts. Doing so will VOID YOUR WARRANTY.
- ***When replacing the heating elements, always replace the PTFE adhesive under the heating element. A worn PTFE adhesive can cause the heating element to break.*** The PTFE adhesive works as a barrier between the body of the sealer and the element. Never allow the element to come in direct contact with the sealer body as that will damage the timer.
- Never leave the sealer unattended. Be safe, disconnect the sealer from power source before leaving work area.
- Always keep out of reach of children and pets.
- Close supervision is necessary when any appliance is near persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge. This sealer is NOT to be used by children or by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- DO NOT use the sealer outdoors.
- DO NOT use the sealer while under the influence of drugs, medications or alcohol.

SAVE THESE INSTRUCTIONS - REFER TO THEM OFTEN AND USE THEM TO INSTRUCT OTHERS.

Introduction

FS-Series Long Hand sealers are designed for sealing longer materials for specialized sealing needs. The sealers can seal polyethylene, polypropylene, saran, nylon, static shielding bags, and Mylar up to 10mil in total thickness.

Features of the FS-Series Long Hand Sealers

Your Long Hand sealer is equipped with a wide range of standard features and capabilities.

- Impulse sealing - no warm up time needed
- Electronic timer for variable control
- Table top design supported with anti-slip rubber feet
- Seal width: 3mm wide flat heating element
- Option: Round heating elements available for seal and cut applications
- Manufacturer spare parts kit includes: 2 heating elements

How Do FS-Series Long Hand Sealers Work?

Basic Principles
Place material on lower jaw and bring sealing arm to activate sealing process

Our FS-Series impulse sealers fire a short burst of electricity through a specially designed heating wire to weld thermoplastic materials together. The length of the seal time will depend on the sealing characteristics of the bag being sealed. The sealing process is simple: The operator places material on the base of the sealer and brings the sealing arm down to seal.

Specifications

	FS-600H	FS-800H	FS-1000H
Power	110V/60Hz	110V/60Hz	110V/60Hz
Watts	780W	1050W	1350W
Seal Width	2.8mm	2.8mm	2.8mm
Sealing Length	23.6" / 600mm	31.5" / 800mm	39.4" / 1000mm
Dimensions	28" x12" x 5"	40" x12" x 5"	48" x12" x 5"
Shipping Dimensions	35" x 7" x 12"	43" x 7" x 12"	52" x 7" x 12"
Gross Weight	15-lbs	19-lbs	20-lbs

Getting to Know your Long Sealer

FS-Series Long Hand Sealers are simple and efficient sealing machines.

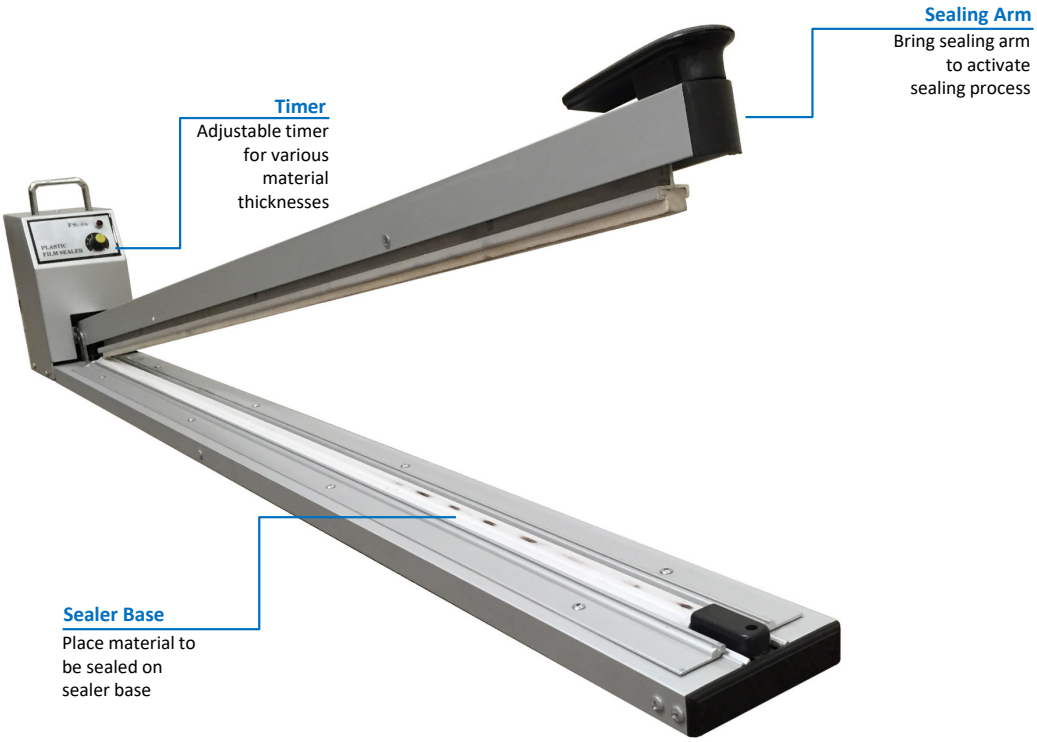

Figure 1. FS-Series Long Hand Sealer Overview

Operating your Sealer

Assembly Instructions

Sealer comes assembled and ready to operate.

Operation

1. Before operating, check the heating element, PTFE cover, PTFE adhesive and the silicone rubber. The heating element should be intact.
2. Insert the power cord into the correct receptacle (110V).
3. Set the timer knob to the lowest setting. Always start with a low setting and increase gradually as needed.
4. Place material to be sealed on the base of the sealer and bring the sealing arm down firmly, but gently. The red light will turn off when sealing time is complete.
5. ***When red light turns off, keep pressing the sealing arm down for an additional 2-3 seconds. For a high quality seal, seals must cool under pressure. We usually recommend a congeal setting of at least 2x that of the heat setting but every bag will have variations. Thicker materials will require a longer cooling (congealing) time.***

Tips for Successful Sealing

1. If the seal is broken or damaged, decrease the sealing time.
2. If the seal is not fully welded, increase the sealing time.
3. If the sealing material sticks to the sealing pad, decrease the congealing time.
4. If the width of the seal is not perfect or does not match the size of the element, increase the congealing time. ***When sealing/timer light turns off, keep pressing the sealing arm down for an additional 2-3 seconds. For a high quality seal, seals must cool under pressure. We usually recommend a congeal setting of at least 2x that of the heat setting but every bag will have variations. Thicker materials will require a longer cool (congealing) time.***
5. Always keep the sealer clean. Remove any residue found on the platform and PTFE cover. Silicone spray may be used for this purpose.
6.  ***When replacing the heating elements, always replace the PTFE adhesive under the heating element. A worn PTFE adhesive can cause the heating element to break prematurely.*** The PTFE adhesive works as a barrier between the body of the sealer and the element. Never allow the element to come in direct contact with the sealer body as that will damage the timer.

7. Occasionally check the condition of the silicone sponge/compression foam for wear or burns. A damaged silicone rubber will affect the quality of the seal.

8.  Be sure to turn off the power or unplug the unit before replacing any parts.

Maintenance

The following maintenance procedures should be followed to ensure the longevity of your FS-Series Long Hand sealer.

Inspection and Cleaning

1. Inspect your machine daily.
2. Use a clean cloth to remove any plastic residue remaining on the top PTFE cloth.
3. When replacing the elements, always check the condition of the bottom PTFE adhesive.
4. Check the condition of the silicone rubber for wear and burns. A damaged silicone rubber will affect the quality of the seal.

Replacement Kit Instructions

Our FS-Series Long Hand sealers will require new heating elements and PTFE from time to time. Heating elements will break through wear and tear. A good rule of thumb is to replace the bottom PTFE adhesive every time you change your heating element. The top PTFE adhesive prevents the plastic or other thermoplastic material you are sealing from sticking to the heating element.

Replacement kits are available from your distributor. Kits include (2) heating elements, (2) ½" PTFE adhesives, and (2) 2" PTFE covers. Optional round wires are available for seal and cut applications (shrink wrapping, etc).

For replacement kit part #s, refer to your model #.

	FS-600H	FS-800H	FS-1000H
Replacement Kit	RK-24H-FS-600H	RK-32H-FS-800H	RK-40H-FS-1000H
Heating Element	HE-24-3-FS-600H	HE-32-3-FS-800H	HE-40-3-FS-1000H
PTFE Adhesive	TA-24	TA-32	TA-40
PTFE Cover (2")	TC-24-5mil-2	TC-32-5mil-2	TC-40-5mil-2
Silicone Rubber *(not included in RK)*	SR-FS-600H	SR-FS-800H	SR-FS-1000H

To install your replacement kit on your sealer, turn off power and unplug sealer.

Removing Worn Parts

1. Remove the heating element cover.
2. Loosen the screws on the PTFE cover plate.

Figure 2. Remove heating element cover

Figure 3. Remove PTFE cover plate

3. Remove the PTFE cover to expose the heating element.
4. Remove the heating element by removing screw on mounting spring. Repeat on the other end.
5. Peel off the PTFE adhesive under the heating element.

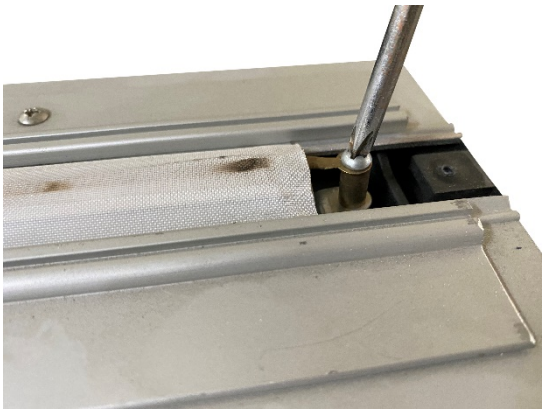

Figure 4. Remove heating element from mounting spring

Installing New Replacement Parts.

1. Remove the backing of the liner found on the PTFE adhesive.
2. Apply it to the sealer's sealing platform. The PTFE adhesive must always extend past the sealing platform by approximately ¼" to ½" on both ends. Bend down the excess on both ends. ***(The PTFE adhesive acts a barrier between the metal body and the heating element. Never allow the heating element to come in direct contact with the sealer's body because it will damage the timer.)***

3. Place a new element on top of the PTFE adhesive by fitting one eyelet of the heating element on one mounting spring followed by the other mounting spring. Using a screwdriver to flex the mounting spring inward will ease the placement of the element on the mounting spring. Check the element to ensure it is tight and intact.
4. Replace the PTFE cover over the heating element.
5. Tighten the screws to affix the PTFE cover plate.

Parts Diagram

Figure 5. Spare Parts Diagram Overview

Troubleshooting

Problem	Possible Causes	Solution
No sealing Timer light off	1. Disconnected power cord 2. Power cord is broken 3. Transformer is broken	1. Check or change plug 2. Replace power cord 3. Replace the transformer
No sealing Timer light are on	1. Heating element is broken 2. Poor contact at mounting spring 3. Microswitch malfunction 4. Microswitch adjustment needed	1. Replace the heating element 2. Clean, tighten or change the mounting spring 3. Replace microswitch 4. Adjust microswitch
Burnt PTFE cloth	1. Timer malfunction 2. Timer setting too high	1. Replace timer 2. Decrease timer setting
Broken heating element	1. Worn PTFE adhesive	1. Replace PTFE adhesive
Wrinkled seal	1. Seal time is set too high 2. Cooling (congeal) time is too short	1. Decrease timer setting 2. Increase congealing time
Imperfect seal	1. Worn PTFE cloth 2. Worn silicone rubber	1. Replace PTFE cloth 2. Replace the silicone rubber
Burnt seal	1. Seal time is set too high	1. Decrease seal time
No seal	1. Seal time is set too low	1. Increase seal time
Seal sticking to PTFE cloth	1. Worn or dirty PTFE cloth 2. Worn or dirty silicone rubber	1. Replace or clean PTFE cloth 2. Replace or clean silicone rubber