



110 Fairgrounds Drive • P.O. Box 188 • Manlius, NY 13104-0188 USA • 315.682.9176 • FAX: 315.682.9160

OPERATOR'S MANUAL



Model 78 Pneumatic Wire Stripper

PRODUCTION WIRE PROCESSING EQUIPMENT

****IMPORTANT****

**THIS MACHINE CONTAINS
PNEUMATIC COMPONENTS.**

**IT IS EXTREMELY IMPORTANT THIS
MACHINE BE CONNECTED TO A
CLEAN DRY AND FILTERED AIR
SUPPLY.**

**A SEPARATE REGULATOR AND
FILTER MUST BE INSTALLED
DIRECTLY AT THE MACHINE
CONNECTION.**

**CONTAMINATED AIR MAY CAUSE THE
MACHINE TO MALFUNCTION.
FAILURE TO FOLLOW THESE INSTALLATION
INSTRUCTIONS MAY RESULT IN DAMAGE TO
THE MACHINE THAT WILL NOT BE
COVERED UNDER WARRANTY**

CARPENTER MODEL 78 PNEUMATIC WIRE STRIPPER

INTRODUCTION

Thank you for choosing Carpenter Mfg. Co. Inc. Wire Processing Equipment. For over 50 years Carpenter has been a leader in Wire Processing Technology and Service. Our desire has always been to bring you reliable products. We look forward to a long healthy relationship with you and our company.

The Model 78 can process a wide range of wires as referenced on the following page.

These processing specifications are based upon the most commonly manufactured wires. Special applications may arise with wires that are within the specification limits of the machine but are very difficult or unsuccessful to process. Likewise, wires that exceed the specified limits of the machine can sometimes be processed. Because there are many variables involved in Wire Processing we strongly recommend a FREE Wire Evaluation at our factory followed by a demonstration from a Carpenter representative to insure the ultimate success of your Wire Processing Application.

This operating manual explains how to operate the Model 78. To ensure the best performance of your machine, read this manual carefully until you familiarize yourself thoroughly with its operation and features. After you have read through the manual, keep it available for reference.

Use this manual as a quick and handy reference tool for clarifying any questions that may arise. If you have any questions about this machine or service please let us know.

Our phone number is 315.682.9176, fax number 315.682.9160
Website: www.carpentermfg.com, E-mail: wire@carpentermfg.com

Carefully unpack the Carpenter Model 78.

We recommend that you keep the original box and packaging as it will protect the machine for future transportation if necessary.

CARPENTER MODEL 78 PNEUMATIC WIRE STRIPPER

IMPORTANT NOTICE

The products in this shipment left our facility in good working condition.

Their safe delivery is the responsibility of the carrier that delivered this shipment to you.

Our stated shipping terms are F.O.B. our facility at 110 Fairgrounds Drive, Manlius, NY 13104.

According to applicable laws, the responsibility for this shipment was transferred to you as soon as the carrier accepted the goods at our warehouse.

If concealed damage is discovered after unpacking this shipment, you must submit a damaged freight claim with the carrier.

Carpenter Mfg. Co., Inc. cannot submit your claim for you.

In order for you to collect for concealed damage, the carrier must be notified within 5 days of the date you receive this shipment.

You must leave the damaged items and packing material as is (i.e. return all merchandise and all packing material to the shipping container) until the claim has been inspected by the carrier.

Also, the carrier will not accept a claim if the goods have been moved from the point of the carriers delivery to another street address.

If you have any questions or problems, please give us a call at 315.682.9176.

CAUTION

This equipment comes equipped with a
LEXAN Safety Guard.

The machine will not operate unless
the Safety Guard is installed on the Model 78.

****IMPORTANT****

Do not attempt to defeat the function
or purpose of the Safety Interlock Switch.

Serious injury to the operators' eyes, fingers or other body
parts may result from attempts to operate this equipment
without the Safety Guard installed.

CARPENTER MODEL 78 PNEUMATIC WIRE STRIPPER

****IMPORTANT****

PLEASE READ ENTIRE INSTRUCTIONS BEFORE OPERATING MACHINE

The Model 78 is designed to strip many types of extruded insulations from wire. The Model 78 also offers full or semi-strip capabilities and provides accurate, clean, nick-free stripping.

SPECIFICATIONS

AIR SUPPLY	60-100 PSI or 4.1-6.8 BAR	**CLEAN AND FILTERED AIR ONLY**
MAXIMUM WIRE DIAMETER	.250" or 6.35mm	
WIRE SIZE	10-32 AWG or 5.27mm – 0.05mm	
STRIP LENGTH	0.063 to 1.000 inches or 1.6mm to 25.4mm	} Metric Labeling Available Upon Request.
PULL OFF LENGTH	0.063 to 1.000 inches or 1.6mm to 25.4mm	
MINIMUM WIRE LENGTH	.500" or 12.7mm plus strip length	
CYCLE TIME	0.3 seconds	
DIMENSIONS	2.7"W x 5.8"H x 12"D or 69mm W x 147mm H x 304mm D	
WEIGHT	6.5 lbs. or 3 kg.	

MACHINE CONTENTS

¼" Air Line w/ #3413 Fitting
1pc. #3337 Hex Wrench

SAFETY GUARDING

The Model 78 comes equipped with a LEXAN guard. The machine will not operate unless the guard is installed. ****IMPORTANT** DO NOT ATTEMPT TO DEFEAT THE FUNCTION OR PURPOSE OF THE SAFETY INTERLOCK SWITCH. SERIOUS INJURY TO THE OPERATOR'S EYES, FINGERS OR OTHER BODY PARTS MAY RESULT FROM ATTEMPTS TO OPERATE THE MODEL 78 WITHOUT THE SAFETY GUARD INSTALLED.**

AIR SUPPLY

60 - 100 P.S.I., CLEAN DRY AND FILTERED AIR ONLY.

**IT IS EXTREMELY IMPORTANT THIS MACHINE BE CONNECTED TO A
CLEAN DRY AND FILTERED AIR SUPPLY**

**A SEPARATE REGULATOR AND FILTER MUST BE INSTALLED
DIRECTLY AT THE MACHINE CONNECTION.**

**CONTAMINATED AIR MAY CAUSE THE MACHINE TO MALFUNCTION. FAILURE TO FOLLOW
THESE INSTALLATION INSTRUCTIONS MAY RESULT IN DAMAGE TO THE MACHINE THAT WILL
NOT BE COVERED UNDER WARRANTY**

MACHINE SET-UP

Install the ¼" air line, provided, into the #3413 Fitting located on the back of the machine. Connect air line assembly to a CLEAN AND FILTERED air source.

CARPENTER MODEL 78 PNEUMATIC WIRE STRIPPER

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BLADE DEPTH / WIRE SIZE

The adjustment knob used to set the blade depth is located in the center on the front of the machine. You will first need to measure the inner conductor of your wire. There is a reference chart located on the top of the machine for standard gauge sizes with decimal equivalents. The Blade Depth Knob functions the same as a standard micrometer. It is recommended that the blade depth value be set .002" - .005" over the measured value for the test strip to avoid the blades scrapping the inner conductors of the wire. After making a test strip adjust the blade depth in or out to achieve desired results.

STRIP LENGTH

The adjustment knob for strip length is located on the lower right side of the front of the machine. There is a reference chart with a line indicator, located on the right side of the machine, to aid in initial set up. Refer to the chart and turn the knob clockwise to increase the strip length or counter clockwise to decrease strip length. After processing a test piece you may have to adjust this setting accordingly.

PULL LENGTH

The adjustment knob for pull length is located on the lower left side of the front of the machine. There is a reference chart with a line indicator, located on the left side of the machine, to aid in initial set up. To increase the pull length, turn the knob counter clockwise. To decrease the pull length, turn the knob clockwise. The Model 78 will perform both a full strip and a semi-strip. To achieve a full strip be sure that the pull length value is greater than the strip length value. Ex. If Strip length is 1/2", pull length could be 5/8". To achieve a semi-strip, determine the length of the pull and set machine to that value. A semi-strip value will always be less than the strip length value. Ex. If Strip Length is 1/2", pull length could be 1/4".

CLAMP PRESSURE

The Clamp Pressure Knob is located on the back of the machine. This adjusts the pressure on the wire clamp located in front of the blades. It is necessary to have just enough pressure to hold the wire stationary during the stripping process. This setting will be trial and error; less pressure for smaller wires and more pressure for larger wires. Turn the knob clockwise to increase pressure and counter clockwise to decrease pressure.

WIRE SUPPORT POST

The Wire Support Post is located on the front of the machine in front of the Wire Clamps. Loosen the Thumb Screw and adjust the post up or down to position the wire level with the Trigger/Stop.

WIRE ENTRY

The wire enters through the opening in the Safety Guard and between the clamps and blades. Once it touches the Trigger/Stop the machine will activate. The wire may enter through the guard from the top and in or straight in. This technique will depend upon what is most comfortable for the user.

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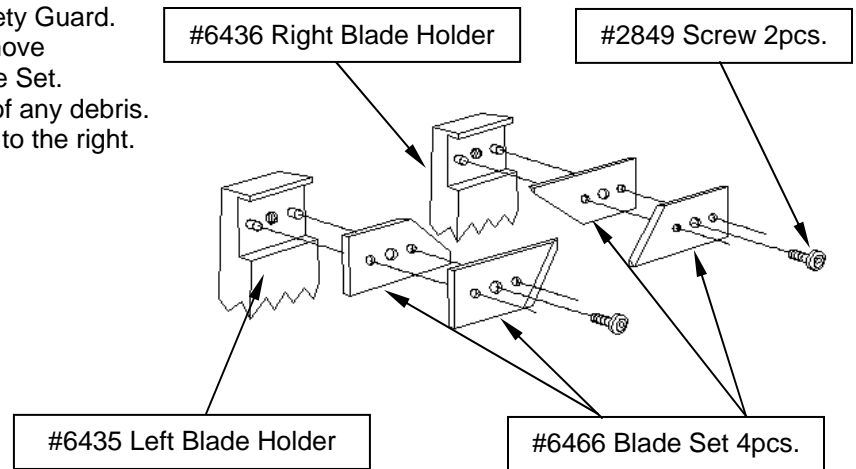
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AIR BLAST PORTS

There are 2 air blast ports located on the front right support near the wire clamps. These are used to blow slugs out of the machine during the stripping process. For optimum performance be sure this area is free from debris.

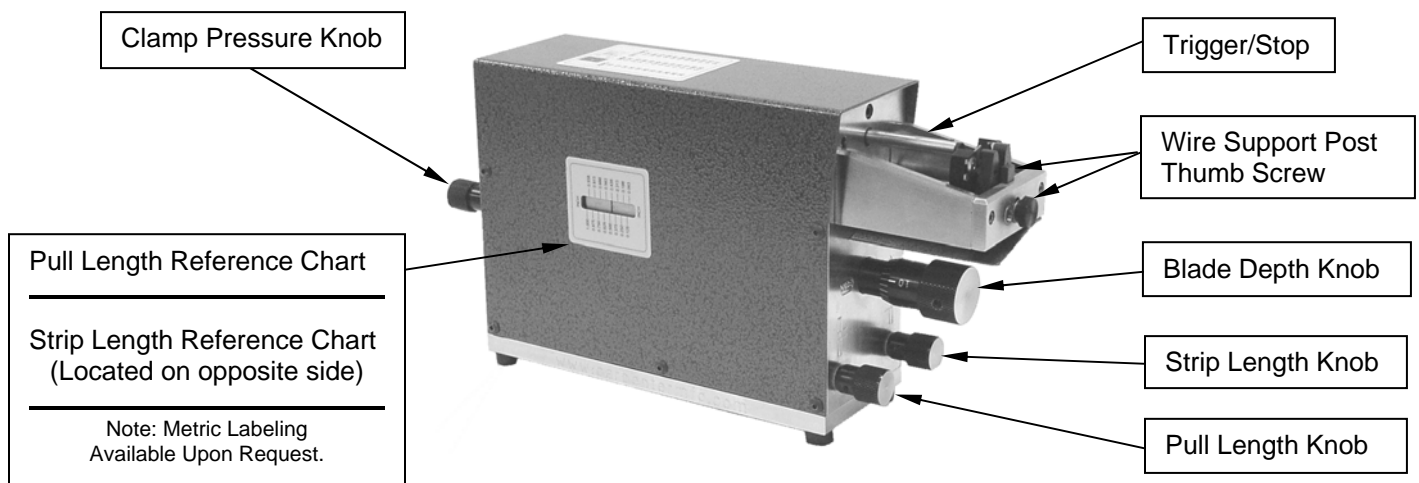
BLADE CHANGE

1. Disconnect air supply to machine and remove Safety Guard.
2. Using **#3337** Wrench (supplied with machine), remove 2pcs. **#2849** Screw and remove 4pcs. **#6466** Blade Set.
3. Make sure the Blade Holders are clean and clear of any debris.
4. Install the new Blade Set as shown in the diagram to the right.
5. Reinstall 2pcs. **#2849** Screw and retighten.
6. Install Safety Guard.



OPTIONAL FEATURES

#78FP Foot Pedal Kit



PLEASE NOTE THE MODEL 78 IS PICTURED WITHOUT THE SAFETY GUARD FOR DEMONSTRATION PURPOSES ONLY.

CARPENTER MODEL 78 PNEUMATIC WIRE STRIPPER

WARRANTY

Carpenter Mfg. Co., Inc. manufactures its products to be free from defects in materials and workmanship. Should any defect occur within 1 year after shipment, Carpenter Mfg. Co., Inc. will at its option, exchange or repair the defective device.

Repairs or adjustments to equipment under warranty can be performed at our factory or at the customer location, at the option of Carpenter Mfg. Co., Inc. In most cases a 1-2 day turn around time will be necessary to repair equipment at our facility. When equipment is returned to our factory for repair or replacement, freight charges will be borne by the customer. Repaired or replaced equipment will be returned at Carpenter's expense via U.P.S. ground service. If alternate shipping is requested by the customer, the difference in shipping charges will be billed to the customer.

This is a limited warranty and is in lieu of all other representations and expressed and implied warranties (including the implied warranties of merchantability and fitness for use.) Under no circumstances shall Carpenter Mfg. Co., Inc. be liable for any incidental or consequential property damages or losses subsequent to misuse or improper maintenance of this equipment.

Not covered by this warranty are:

- Consumable parts (blades, belts, guides, springs, inserts, stripping wheels, etc.).
- Cosmetic problems (nicks, scratches, etc.).
- Damages caused by any repairs or modifications by unauthorized personnel.
- Abuse.
- Damage caused by shipping.
- Damage caused by environmental and/or atmospheric conditions.
- Damage caused by the use of contaminated compressed air.