

# AUTOMATIC UNIVERSAL LINER SIZER

ITEM #40021

# PLSU3

The PLSU3 is the latest in Automatic Liner Sizer cutters for the HVAC Industry. The gear driven slitter and a pulley driven cross cut blade create a powerhouse to tackle all specialty insulations. This new cutting action will allow the PLSU3 to accommodate virtually all insulation types on the market including closed cell products, cotton fiber, Neoprene, Elastomeric Foam & more.

**THE MOST  
VERSATILE AND  
COST EFFECTIVE  
INSULATION  
CUTTING OPTION  
IN THE INDUSTRY!**

## **MATERIAL HANDLING**

The drive rollers of the PLSU3 also run in reverse for easier material loading/unloading.

## **UNIVERSAL WORKFLOW**

The portable controls allow for one machine to work for both 'Left to Right' and 'Right to Left' flows. The PLSU3 can also be manually operated if desired in addition to automatic operation.

## **CUTTING ASSEMBLY**

The PLSU3 comes standard with 1 pulley driven cross cut blade for cutting to length and 1 gear driven slitter for cutting various widths. Additional slitters can be added (4 total slitters max per machine).

## **FRAME ASSEMBLY**

The insulation rack will hold one roll of insulation standard as shown.

## **ACCURACY**

The PLSU3 is built to maintain a tolerance of + or - 1/4" of length desired as well as slitting accurately to desired widths.

## **EASE OF ADJUSTMENT**

Convenient flip top Plexiglas guards allow easy access for multiple slitter positioning with new safety sensors on Blade enclosures for added protection. The settings for both width and length are made easily and quickly by the mechanic. Material handling is minimized.

## **HIGH PRODUCTION**

PLSU3 will slit material at the rate of 40 linear feet per minute. Where material is to be cut to length as well, a full roll of insulation can be sized in less than 5 minutes.

## **RELIABILITY**

Duro Dyne's experience with manual insulation cutters provides the technical know-how for producing a powered machine which will perform to the high standards required. Many PLSU3 insulation cutters are already providing contractors with efficient trouble free production in shops throughout the country.



**Fast, accurate automatic  
duct liner cutter.**

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02/2024

**DURO  
DYNE**®

## SAFETY

The PLSU3 is designed with operator safety in mind. Guards and interlock switches minimize the possibility of accidents caused through operator error.

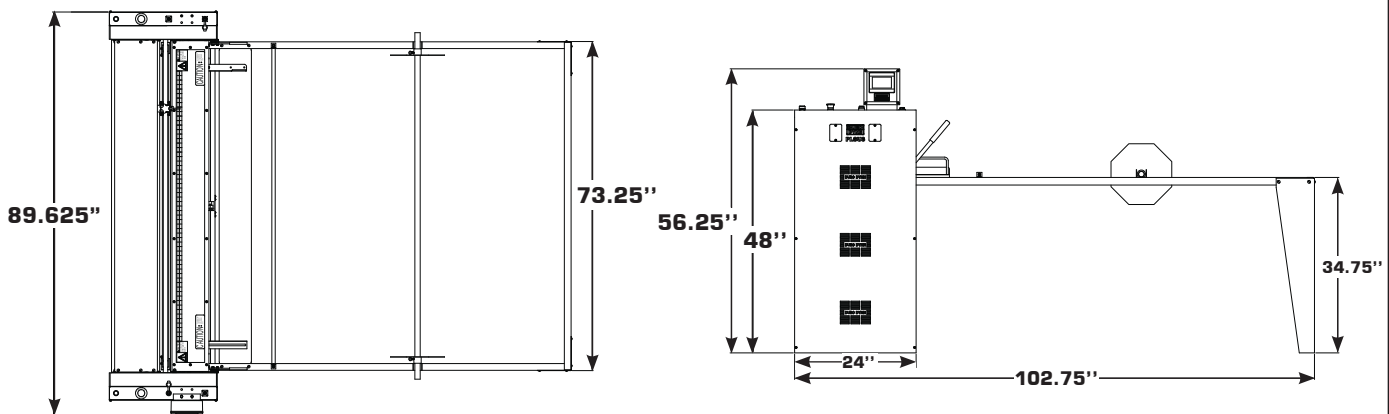
- Integrated E-Stop safety circuits to lock out machine air and mechanical operations.



## SERVICE

Duro Dyne, through its regional offices, sales engineers and select distributor organizations, assures you of assistance when required. Our service department technicians are available to help you keep your machine operating in top condition at all times.

## DIMENSIONS



## FEATURES

- Durable pulley driven cross cut blade for cutting to length
- 1 gear driven slitter for cutting various widths. (4 total slitters max can be added for additional cost)
- An insulation frame is designed to keep liner square and hold 1 roll standard.
- Micro switch interlocks on all guards for safety.
- Reliable pneumatic controls
- Proven 24-volt components for all control circuits.

## SPECIFICATIONS

- Cradle accommodates liner roll up to 60" width, 40" diameter
- 66" long; 1-1/2" diameter automatic tensioning cable cylinder for cross cut blade.
- 1 crosscut assembly, 1 slitter assembly
- Electrical requirements: 110 volt, 15 AMP
- Air requirements: 80 P.S.I.

## OPERATION

Place a roll of liner material on the cradle and feed the leading edge of the liner between the pinch roller and the feed roller.

- New universal design allows the HMI to mount on either side of machine for Left to Right or Right to Left operation.
- New encoder and PLC operation to ensure accurate desired material length.
- Integrated safety switches and solenoids dump valve for operator protection.

To set the width, loosen knob on the slitter assembly and slide the assembly to proper position, retighten the knob.

To set the length, use the HMI touch screen programmable display. Type in cut size and desired quantity for Automatic/Manual run mode. The insulation will advance through the rotary knife slitter until it reaches the pre-set length. The liner is then automatically stopped and crosscut to length.

As the cut liner is removed from the machine, it automatically restarts. The next piece is slit as it advances through the machine toward the length sensor where it will stop and be cut to length. Removal of the liner starts the next cycle. The machine continues in this mode of operation until the program is completed in the HMI touchscreen.



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