



## Econo-Cutter

*Your Efficient yet Economical Choice in Sheeters*



WE BELIEVE IN **PRECISION**. WE BELIEVE IN **RELIABILITY**. WE BELIEVE IN **RESULTS**.

## Contech Econo-Cutter

This economical sheeting system is ideal for low volume sheeting and dispensing a wide variety of material from paper and cloth to bubble and foam packaging materials. It provides a simple, low cost solution to converting roll material into sheets.

### Options:

- Single or Dual Unwind— weight capacity up to 100 lbs.
- Powered Unwind— 500 lb. single or dual.
- Photo Eye— Pre-stages your next sheet
- Pendant— 3 or 6 button.
- Width Sizes— 30", 60", or 72"

- Easy set up and operation
- Saves time and labor costs
- Free standing or overhead applications.
- Cuts clean with 1/4" accuracy.
- Batch and length control, convenient foot pedal is

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## MACHINE OVERVIEW

### Unwind Station

The basic function of the unwind station is to support a roll of material and provide web tension while the material is being unwound. Contech has many designs available to accommodate different material roll parameters. The weight, diameter, width and core diameter are all factors in specifying an unwind stand. The working elements and operation of the station are similar through all designs. The 100 lb. unwind station provides a support system for rolls of material weighing up to 100 lb. The material is mounted to the unwind mandrel using tapered core inserts. The material is then routed into the EconoCutter. To load material onto the unwind mandrel press the blue button in the end of the retaining pin while pulling the pin. Open the hinged material support block and remove the shaft. Place the roll of material flat on the floor behind the unwind stand. Position the roll so that it will unwind from the top after being mounted. Place one core insert onto the shaft. Insert the shaft through the material core and place the second core insert on the shaft. Force the core inserts into the cores and tighten the setscrew. Lift the material roll onto the support blocks, close the hinged covers, and replace the pins.

### Drive Roller

The Drive Roller is the roller that increments and measures the material. Roller position is provided to the control computer by an encoder attached to the Increment Drive Shaft. Acceleration, deceleration and, length information is calculated by the computer which, controls the DC drive card, powering the Increment Roller.

### Cutter Blade

The Cutter Blade is the circular blade that travels the width of the machine, performing the cutting action. The cutting system uses a pneumatic cylinder to provide blade movement. To perform a single cut, the pneumatic cylinder must travel the complete width of the machine. During the cut cycle, the blade is pushed from one end of the Cutter Head Support Tube to the other. An electrically activated 3-position 5-way pneumatic valve controls the direction of airflow into the cylinder. Located on the exhaust ports of the valve are adjustable flow mufflers that restrict the flow of air out of the cylinder. By restricting exhaust air of the cylinder, speed and force of the blade can be maintained throughout the entire cut cycle. Internally, a piston is forced back and forth through the cylinder by airflow supplied by the control valve. Air is forced into opposite ends to move different directions. Limit Switches are mounted above the Cutter Head to provide position sensing. Two switches are used in the unit to provide end-of-travel limits for the actuator. The coils are operated by 24VDC outputs supplied at the I/O board. The electric valve operates by moving an internal spool that redirects airflow. The spool operates in one of three positions: left, center, and right. When a coil is activated, the spool is pushed into position and airflow is directed to the cylinder expelling the return air from the cylinder and driving the cutting blade.



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