



## MODEL RC-3000 HIGH SPEED DRINKING STRAW CUTTER

- Increased Production Rates
- Improved Cut Quality
- Length Tolerance +/- 0.015”  
(with non-contact laser Doppler)

Model RC-3000  
Drinking Straw Cutter  
(Patent Pending)

The Versa Machinery Model RC-3000 high speed drinking straw cutter is designed to operate at line speeds up to 2,000 FPM. The cutter overcomes the inherent problem of cut deformation that occurs at high line speeds with flyknife cutters, due to knife residence time. The RC-2000 produces clean square cuts without flaring or other deformation of the cut end.

The RC-3000 cutter uses a high resolution encoder signal to synchronize its speed with that of the extruded material. Versa Machinery offers a companion high speed caterpillar puller, high resolution encoders, and a non-contact laser Doppler measuring system that can be used with the RC-3000 to maximize performance. (See the Versa Model High Speed Puller product brochure for puller details.)

The RC-3000 operates with 3 or 4 knives depending on the straw length. It is designed to allow a complete set of knives to be changed in approximately one minute.

A high speed straw extractor increases the speed of the straws after they are cut, ejecting them downstream so that they can be captured in a controlled manner.

The RC-3000 drinking straw cutter operates at line speeds up to 2,000 FPM, allowing production rates to approximately 180,000 pieces per hour, or higher depending on straw length.

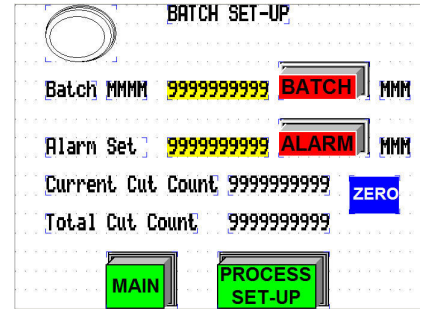
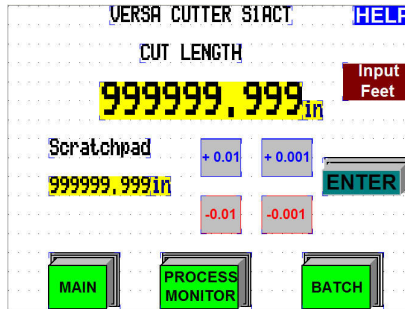
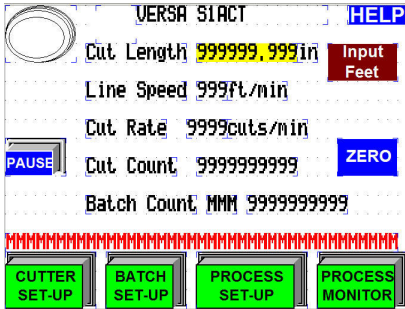
### Versa Machinery

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# VERSA HIGH SPEED DRINKING STRAW CUTTER SYSTEMS

Measure and cut your drinking straws to exact lengths automatically at the fastest line speeds achieved to date using the Model RC-3000 cutting system. The RC-3000 was designed specifically for cutting drinking straws. The method of cutting eliminates the problems experienced with flyknife cutters due to the time the knife is in the product. At high line speeds flyknife cutters hold the product from moving, potentially deforming the end of the straw during the time the knife is passing through it. The RC-3000 overcomes that problem by utilizing knives that move at the same speed as the tubing. Knife speed is automatically synchronized to the tubing speed, producing clean, square cuts.

For best performance Versa Machinery recommends the use of a non-contact laser Doppler measuring system. The laser Doppler measures the actual speed of the tubing, eliminating errors that can occur due to slippage between the tubing and the puller belts. The result is precise part measurement and smooth continuous operation.



## SYSTEM FEATURES

- Easy to setup and easy to operate
- Touch screen operator interface for easy setup
- Touch screen displays line speed, cutting rate, and cut counter
- Two servo drives and servo motors control cutter wheel motion
- Continuous cutting at speeds up to 2,000 feet per minute
- Knives can be changed in one minute
- Reliable 24/7 performance

## HOW IT WORKS

The material is fed through a funnel shaped inlet guide that supports the tubing up to the cutting location.

The integral cut length control receives measurement pulses from an encoder with measuring wheel, or a laser Doppler to synchronize the knife speed to the speed of the material.

A high speed extractor assembly increases the speed of the cut straws and ejects them downstream for collection.

## SPECIFICATIONS

Max. Line Speed	2,000 FPM
Encoder Requirements	5,000 Pulses Per Foot or Greater (Non-contact measuring system available)
Motors Drives	(2) 2.5 Kw Servo Motors (2) 3 Kw Servo Drives

Operator Interface	5.6" Color Touch Screen with 32 MB Flash Memory
Electrical Requirements	230V/3ph/50Hz or 60Hz
Overall Dim.	33"L X 45"D X 50" to 58"H

\* Material O.D. must be maintained within +/- 0.005".



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