



## ACT\* SERVO CUTTER/PULLER SYSTEMS

\*(ADAPTIVE CUTTING TECHNOLOGY)



Model S1ACT-218

**Automatic cutting mode selection.** Versa's exclusive ACT software automatically selects On-Demand mode, Cam mode, or Flywheel mode cutting, from operator entered line speed and cut length figures. These three cutting modes cover a wide range of cutting requirements at speeds up to 3,000 cuts per minute (up to 6,000 CPM with two knife option). ACT systems automatically select the best mode of operation for each application.

**On-demand mode:** For applications requiring slower cut rates, the knife comes to a full stop after each cut, in a preset "Home" position, for maximum cut length accuracy.

**Cam mode:** For applications requiring higher cut rates, where there is not sufficient time to stop the knife in the "Home position, the knife slows after making each cut, moves toward the "Home" position and then returns to full speed to make the next cut. This allows the machine to cut relatively short lengths at full knife velocity without having to come to a full stop between cuts.

**Flywheel mode:** For applications requiring extremely high cutting rates, the knife is rotated at a constant speed.

**A wide range of ACT Servo/Servo system configurations are available.**

(See back panel for system specifications and options.)

### **Versa Machinery**

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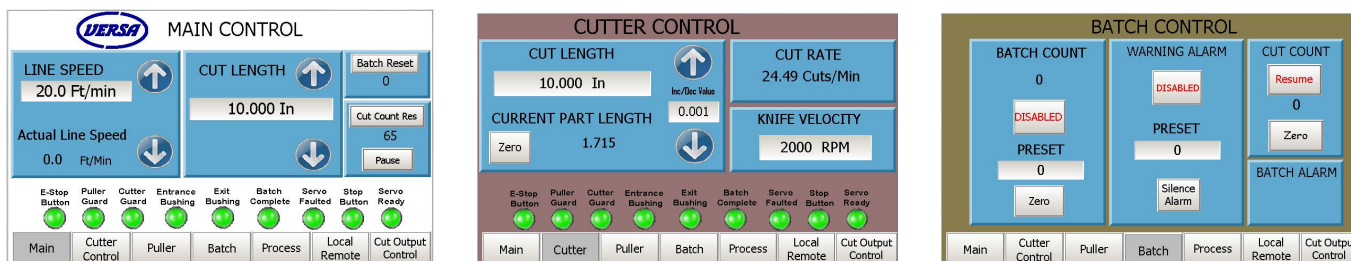
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# VERSA ACT SERVO CUTTER/SERVO PULLER CUTTING SYSTEMS

Feed, measure, and cut your extruded products to exact lengths automatically. Versa Servo Cutting systems with ACT (Adaptive Cutting Technology) software provide a broad range of cutting capabilities. The system's ACT software performs the necessary calculations to determine the best cutting mode for each application. The operator simply enters the line speed and cut length through an easy to use panel view interface. The ACT software does the rest.

Versa Servo systems with ACT are complete cutting systems consisting of a Servo cutter, Servo pinch roll or caterpillar feeder, with integral Cut Length and Batch Controls. Maximum material capacity is up to a full 3" (76.2 mm). The operator interface is designed to allow easy set-up and quick changes for manufacturers that process a wide variety of products. Typical machine setup screens are shown below.



## SYSTEM FEATURES

- Easy to program automatic operation
- Touchscreen interface for easy setup
- Accurate cutting of plastics and rubber tubing, shapes, and profiles to 3" (76.2 mm) O.D.
- Length counter adjustable from .001" to 999.999"
- Continuous cutting at speeds up to 3,000 cuts per minute (6,000 CPM with two knife option)
- Status of safety interlocks displayed on screen
- Reliable 24/7 performance
- Integrated feed system with length control and batch counter.

## HOW IT WORKS

The material is gripped by a pair of rollers or caterpillar belts and pushed through closely spaced bushings for precision cutting by a high-speed razor sharp knife.

The Servo controlled feeder provides precise control of the line speed. The feeder Servo is electronically linked to the cutter Servo to provide accurate control of cut lengths.

Three modes of operation provide flexibility for cutting a wide variety of products.

Bushings are available in a variety of sizes to match the diameter of the material. One set of bored bushings or two sets of blank bushings come with each machine.

## SPECIFICATIONS

|                  |                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Cutting Rate     | Up to 3,000 Cuts/min.                                                                                                           |
| Cutting Torque   | Up to 276 lb-in peak (31.18 NM)                                                                                                 |
| Cut Length Range | 99999.999" or 99999.999 mm                                                                                                      |
| Feeder Options   | 2"W X 4" Dia. Pinch Wheel<br>2"W X 9"L Caterpillar<br>2"W X 18"L Caterpillar<br>4"W X 9"L Caterpillar<br>4"W X 18"L Caterpillar |

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Feed Range              | Geared for application, up to 700 FPM                                                              |
| Electrical Requirements | 230V/1ph/50Hz or 60Hz<br>400/460V options available                                                |
| Bushings                | 1.25", 2.25" or 3.25" O.D.                                                                         |
| * Maximum Material Size | Model S1ACT, 1" (25.4 mm) O.D.<br>Model S2ACT, 2" (50.4 mm) O.D.<br>Model S3ACT, 3" (76.2 mm) O.D. |

\* Material hardness, wall thickness and construction may limit maximum size.



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