



ON DEMAND DAC CUTTERS



Model 75 DAC

Features

- Proprietary Digital Actuated Circuitry
- Repeatable park position of blade for greatest cut length accuracy
- Cutting speeds up to 720 cuts per minute
- Precision timing belt for maximum power transfer
- Hardened gears with non-repeating gear engagement
- Low inertia knife holder
- Totalizing piece counter

Digitally Actuated Circuitry (DAC): Engagement and disengagement of the brake and clutch are controlled by a solid state microprocessor. The DAC is a microprocessor based pulse modulated circuit, which is unaffected by variations in temperature and humidity. This proprietary feature reduces your reject rate, saves time, labor and money and increases production. In addition, the single board control makes service easy.

Electro-mechanical Brake & Clutch: Versa DAC cutters include an efficient electro-mechanical brake and clutch unit. The jam proof brake and clutch are separately mounted to provide fast and cool operation, which results in longer life and less downtime. The unit has been designed with a fail safe brake system that engages upon loss of power, preventing free wheeling of the knife when the cover is lifted.

Cutting Accuracy: The most important measure of a cutter's accuracy is the variation in its delay time. Delay time is defined as the time between when the cutter receives a signal to cut and when the knife enters the material being cut. A difference in delay time between cut cycles will yield a difference in length between products cut by those cycles.

The variation of the Versa DAC system has been measured at +/- 0.2 milliseconds. This degree of accuracy ensures the highest achievable cut length tolerance.

A wide range of DAC cutter configurations and cutter/feeder systems are available.

(See back panel for cutter models, specifications, and options.)

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VERSA ON-DEMAND DAC CUTTERS

Versa On-Demand Cutters are available to meet your specific cutting requirements for both on-line and off-line precision cutting of rubber and plastic profiles, and tubing. Versa cutters assure profitable operation of your processing line by the cutting of continuous products into exact lengths at the highest production rates possible. Versa was first to introduce on-demand cutting technology over 20 years ago, and was also the first to develop an electronic brake and clutch actuation system control specifically for the on-demand fly knife cutter.

Versa On-Demand DAC Cutters are available for cutting materials up to a maximum 8" (203 mm) in diameter or width. The table below lists the various models offered, providing the capacity for each model, cut rate, knife speed, cutting torque and standard operating voltage. Other input voltages are available as options.

Versa Machinery cutters are designed to provide years of service in demanding production environments. Versa products are assembled by skilled craftsmen, using the highest quality materials, machined to precise standards. Versa engineers can provide recommendations for the best methods to feed, cut and process your materials.

OPTIONS AVAILABLE

- Left-to-Right configuration
- Heavy duty table with casters and leveling screws
- Direct Length Controls (Standard or High Resolution models)
- Electric Eye Length Control
- X or X-Y slide base, standard or extended length
- Drip or pump product lubrication systems
- Flywheel option with variable knife speed
- Batch piece counter with reset
- Medical or Clean Room package with stainless steel bushings, bushing holder, knife cap, and white powder coating of cabinet

HOW IT WORKS

The material is fed through a pair of closely spaced bushings for maximum support. Precision cutting is performed by a high-speed razor sharp knife.

The knife is parked 180 degrees rotation from the bushings after each cut, ensuring precise control of cut lengths.

Bushings can be precisely bored for different diameter of the tubing. Special bushings can be machined for extruded profiles. One set of bored bushings or two sets of blank bushings are supplied with each machine.

A variety of knives are available to suit a wide range of material requirements.

SPECIFICATIONS

Model	Cut Rate	AC Motor	Knife Speed	Max. Cut Capacity	Voltage	Max. Torque
61*	720 CPM	¾ HP	1300 RPM	½" (13 mm) OD Product	115 V	60 in/lb (6.78 Nm)
60*	400 CPM	¾ HP	1300 RPM	1" (25 mm) OD Product	115 V	125 in/lb (14.12 Nm)
75*	550 CPM	1.5 HP	850 RPM	2" (50 mm) OD Product	115 V	290 in/lb (32.7 Nm)
80*	225 CPM	1.5 HP	820 RPM	3" (75 mm) OD Product	115 V	605 in/lb (68.3 Nm)
Titan I	500 CPM	3 HP	780 RPM	4" (100 mm) OD Product	230 V	1200 in/lb (136 Nm)
Titan II	350 CPM	5 HP	780 RPM	6" (150 mm) OD Product	230 V	1750 in/lb (198 Nm)
Titan III	100 CPM	7.5 HP	780 RPM	8" (200 mm) OD Product	230 V	2600 in/lb (294 Nm)

* Cutters are available as part of a complete system, on a common table with a wide variety of caterpillar or pinch wheel pullers. Systems include a slide base for the cutter for ease of string up and a Direct Length Control system. Complete systems are recommended for flexible extrusions to ensure the cutter can be placed as close as possible to the exit nip point of the puller.



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