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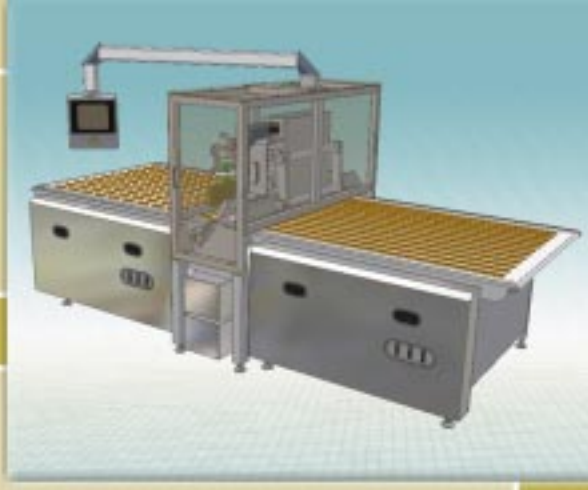

Speed: 0 to 120 cuts/minute

CUTTING SYSTEM

The cutting system has two components: the lateral cutting system (guillotine) and the controls.

Lateral Cutting System (Guillotine)

The guillotine includes one ultrasonic cutting unit. This unit uses four frequency generators to oscillate four titanium blades at 20,000 hertz. Ultrasonic cutting technology presents a number of advantages, including cutting uniformity and speed, reduced maintenance costs, reliability, and flexibility.

Guillotine—Technical Specifications

Guillotine features

Aseptic ultrasonic component assembly including

- 4 frequency generators (2.2 kW)
- 4 aseptic-type converters (sealed)
- 4 titanium boosters
- 4 14” titanium blades
- Up/down blade movement controlled by servomotor
- Stainless steel structure designed to house four 14” titanium blades
- Dedicated operator interface for guillotine
- Acrylic guard with safety switch
- Ultrasonic blade cooling system
- Height-adjustable cutting anvil (width determined according to width of customer’s conveyor)

Controls:

- A stainless steel electrical panel (NEMA 4X) houses the ultrasonic frequency generators as well as the electrical components required to operate the cutting system, including a PLC.
- The same panel houses the operator interface for the cutting system.
- The cutting system requires a 208 V, 3 phase, 60 Hz power supply as well as an 80 psi air supply.

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Here is a brief description of the advantages of using ultrasonic cutting technology:

Uniformity: Cuts made with the ultrasonic cutting unit are straight, clean, and uniform. The energy produced by the ultrasonic vibrations virtually eliminates all friction between the blade and the product being cut.

Speed: Compared to conventional cutting systems, the ultrasonic cutting system is faster and keeps product accumulation on the cutting blade to a minimum. Increased speed means enhanced productivity and no bottlenecks at cutting stations.

Maintenance: Maintenance costs and production downtime are substantially reduced since the cutting blades stay cleaner longer.

Cleanliness: Itrasonic cutting technology uses blades made of titanium, an inert material that does not contaminate the products being cut.

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