

## FMD-24LR FINISHING MILL

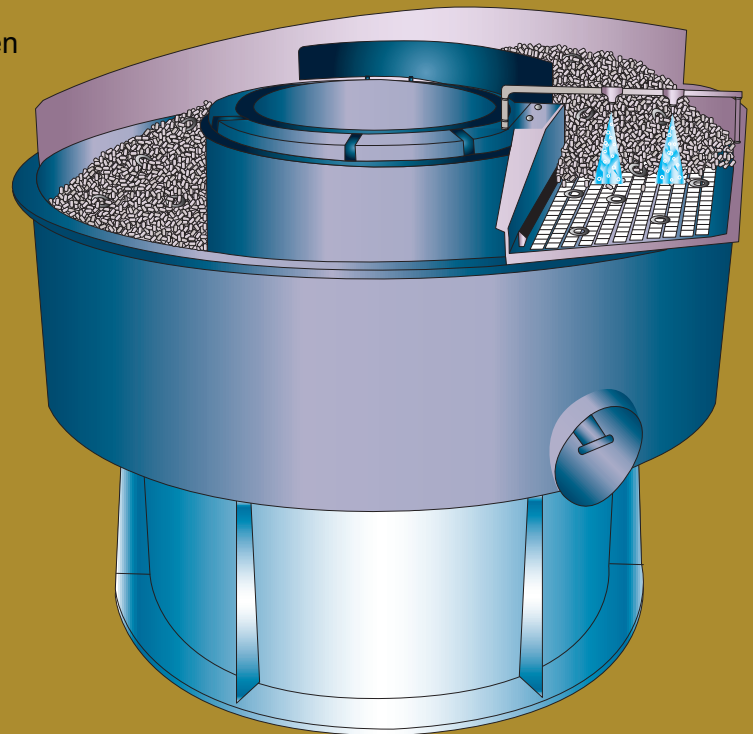
### A NEW GENERATION OF FINISHING MILLS

**T**he Sweco® FMD-24LR Finishing Mill, with semi-automatic internal separation, represents the fastest and most economical method available for accomplishing high quality deburring, descaling, radiusing, polishing, burnishing, chemical treating or fine finishing. A Sweco Vibro-Energy® Finishing Mill combines the best effects of vibratory and barrel motions in a single operation. Vibrating parts and media travel a helical/orbital path in the toroidal finishing chamber. Parts are cushioned by the media at all times.

The combination of vibration and three-dimensional motion provides both shearing and peening actions, the relative proportions of which can be precisely controlled for maximum efficiency in deburring and finishing. The rate at which parts precess through the mill is also adjustable. These control features enable the user to achieve a wide range of surface effects on any type of material.

Vibro-Energy motion is created by offset motor-driven eccentric weights and a spring support system that gives the chamber a high-frequency tilting/rolling movement with combined horizontal and vertical amplitudes. The effect is to provide a more complete dispersion of parts within the media; consequently, more parts can be processed per cubic foot of capacity. Parts travel with maximum protection and virtually no part-on-part impingement.

Metal, plastic, ceramic, and elastomer parts are just a few of the applications that can be processed in a Sweco Finishing Mill.



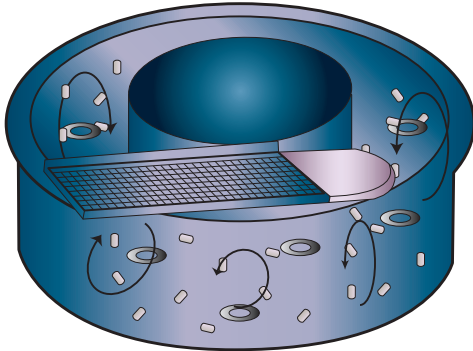
THE SUPPLIED CONTROL PANEL IS  
10 HP VARIABLE SPEED REVERSING  
WITH A PLC TO CONTROL ALL FUNCTIONS



*We Put Technology In Motion™*  
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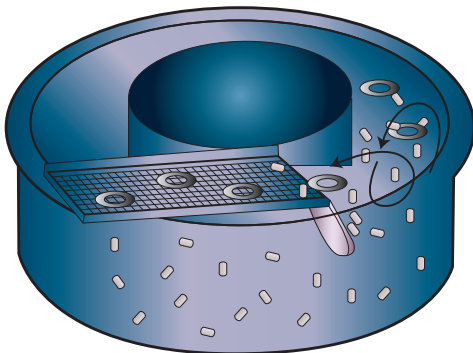
# Reverse Discharge Internal Separation Mill

## Processing



Media moves counterclockwise as parts are processed. Motor weights are set for optimum processing motion. The screen and dam are completely free of the mass and do not hinder parts movement in the toroidal channel.

## Unloading



Mill is stopped and motor direction reversed, reversing the flow of media and parts. As the motor starts in the reverse direction, the motor weights automatically reset for optimum discharge motion. The pneumatic swing dam is lowered, directing parts and media over the screen where parts are separated and discharged while media is returned to the chamber. When parts discharge is complete, the motor is again reversed. The weights again reset themselves. The dam is raised and the mill is ready for the next parts load.

## ***Fastest and Most Economical Finishing Available***

- Unique reversing capability automatically adjusts between best process and best unloading settings
- Three-dimensional motion which processes recessed surfaces not reached by tumblers
- Gentle handling and minimum impingement of fragile parts
- Reduced maintenance costs because of simple design and efficient power use
- Open top for inspection or parts retrieval during process
- Higher capacity per horsepower than other vibrating units
- Compact dimensions save valuable floor space
- Wear-resistant cast polyurethane lining
- Noise attenuating construction
- No transmitted vibration to base - no "walking"
- Capacity: 24 cubic feet of parts and media



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