

Thermal Barrier Machinery

DAMPERMILL™ PRODUCT INFORMATION

Debridger for High Performance Dampers



PRODUCT OVERVIEW

The Azon Dampermill™ is a specialized milling machine designed for precision processing of insulated, thermally broken aluminum dampers filled with AzoCore™ polyurethane. After the AzoCore has cured within the louvers, the Dampermill simultaneously cuts controlled sections of aluminum along the bottom and side surfaces. This three-cut operation creates a discontinuity in the aluminum profile, forming a thermal break that greatly minimizes the conductive heat transfer through the damper assembly.

KEY FEATURES

Performance and Cutting

Three 7.5-HP, 3,600 rpm motors with 1.375-inch (34.9 mm) arbor for precise cutting

Multi-axis adjustment for three-saw debridging with two 9-inch side blades and one 15-inch center blade

Material Handling and Adjustability

Dual 1-HP electric power feed units for consistent extrusion movement

Durable elastomer surface wheels to enhance grip and feed rate performance

Adjustable rollers for consistent cut depth

Operator Controls and Safety

Operator-side controls for easy access to saw height, lateral adjustments, and power feed units

Integrated safety features including interlocked sliding doors, blade guards, and chip removal

Doors remain locked and do not open while blade is spinning

Durability and Maintenance

Engineered for reliable, high-throughput operation with minimal maintenance

Blade lubricator minimizes friction between material and blade, extending tool life

Air system ensures aluminum chips are blown away to prevent them from scratching louvers

TECHNICAL SPECS

Throughput Capacity: >130 Feet per minute

Number of Cutters: Three

Minimum Extrusion Width: 4 inches

Maximum Extrusion Width: 10 inches

Manual Setup: Yes

Chip Collector Connection: 6" OD Outlet

Machine Footprint: 90" W x 63" D x 71.5" H

Electrical Requirements: 480V/3~/60Hz FLA 26

- Min Vacuum requirements: 1000 cfm@ 5 in.wg
- Min Compressed air requirements: 50 cfm@80 psi

Bottom Cutter:

Blade Diameter: 15 inches

Motor: 7.5 HP, 3525 RPM

Cutting Height Travel: 0-0.5 inches

Cutting Width Travel: 2.5-5 inches

Maximum Cutting Width: 5 inches

Side Cutters (2):

Blade Diameter: 8 or 9 inch options

Motor: 7.5 HP, 3525 RPM

Cutting Height Travel: 0-2 inches

