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Aculite Bullet CNC Glass Cutting System

Model: AB

Designed for High-Speed, Automated Shape Cutting & Optimized Glass Production

The **Aculite Bullet** is a high-performance CNC glass cutting system designed for glass fabricators, mirror manufacturers, and insulating glass producers requiring fast, accurate, and automated production. The system combines optimized glass cutting, 3-axis shape scoring, automatic sheet squaring and transfer, and a comprehensive shape library to maximize production efficiency and glass yield. Available in **72" × 96" and 102" × 144"** cutting configurations, the Aculite Bullet can be configured as a complete production line with automatic free-fall loading, breakout equipment, and sorting controls.

Key Features & Advantages

- **High-speed CNC scoring** at up to **4,200+ inches per minute**.
- **2.5-axis cutting head** provides X, Y and random-direction scoring, with steered pneumatic head, for complex geometric shapes.
- **Precision cutting accuracy** to approximately **±1/64"**.
- Processes glass from **single strength up to 1/2" (12 mm)**, depending on configuration.
- **Built-in belt conveyor transfer system** automatically moves glass onto and off the cutting table.
- **Automatic squaring and positioning** helps ensure accurate sheet alignment before cutting.
- Heavy-duty **all-welded steel construction** using tubular steel framing.
- Precision aluminum bridge and rail assemblies with hardened linear guideways.
- **High-resolution digital servo drive system** provides fast, accurate positioning with reduced electrical complexity.
- Automatic cutting-oil dispensing system with adjustable flow.
- High-capacity **air flotation system** assists with handling large and heavy glass sheets.
- PST-licensed optimization software supports **20+ geometric shapes**, optimized cutting across multiple orders, glass types, and sheet sizes, and standard DXF import capability.
- Software-controlled setup and diagnostics reduce the need for mechanical adjustments.
- **Manufactured in the USA** with North American-sourced components.

Key Benefits: High-Speed CNC Shape Cutting | Automated Glass Handling | Optimized Glass Yeild | ±1/64" Cutting Accuracy
At a Glance: 2.5-Axis CNC Cutting • 4,200+ IPM Scoring • 20+ Shape Library • Automatic Squaring & Transfer

Automated Glass Handling

The Aculite Bullet can be configured with an **automatic four-station free-fall loading system** to reduce manual glass handling and increase production throughput. The complete system can also incorporate a breakout table, free-fall racks, harp storage racks, and a breakout sorting monitor. PST currently offers automatic multiple-station free-fall loading as an available configuration for the Aculite Bullet product line.

Breakout & Sorting

A dedicated breakout table provides an efficient location for separating scored glass lites after cutting. The optional **breakout sorting monitor system** can identify storage locations and cutting information for the breakout operator, helping streamline sorting and reduce paperwork.

Precision Cutting System

The Aculite Bullet's cutting bridge is constructed from heavy-wall aluminum extrusion and incorporates precision linear guideways. The bridge and cutting head are servo driven for rapid positioning and accurate scoring. The cutting head accommodates scoring in multiple directions and is designed for quick access to the scoring wheel and cutting-oil system.

Optimization Software

The included Aculite software is designed to maximize glass utilization while simplifying production scheduling and machine operation. Features include:

- 20+ standard geometric shapes
- Square and rectangular lite optimization
- Shape cutting
- Multi-order optimization
- Multiple glass sizes and types
- Fill-pack optimization
- DXF file import
- Job and yield reporting
- Cut preview and order management
- Machine diagnostics and setup functions
- Software-based adjustment of operating parameters

Shipping Specifications

Model	ACULITE BULLET	
	Shipping Specifications	
	Weight (Lbs.)	Dimensions (LxWxH)
AB-72x96	2700	176 x 110 x 80
AB-102x144		

Model Options

Model	Maximum Glass Size	Air Float
AB-72 x 96	72" × 96"	3 HP
AB-102 x 144	102” x 144”	5 HP

Machine Specifications

Specification	Standard
Maximum Glass Thickness	1/2" (12 mm)
Maximum Scoring Speed	4200+ IPM
Cutting Configuration	2.5-Axis
Scoring Patterns	X, Y & Random
Cutting Tolerance	±1/64"
Automatic Squaring	Standard
Transfer Conveyor	Standard
Shape Cutting	Standard
Optimization Software	Included
DXF Import	Standard
Digital Servo Drive System	Standard

Available System Configurations

Aculite Bullet 72 × 96

- CNC 2.5-axis shape cutting table
- Maximum sheet size: 72" × 96"
- Automatic belt transfer and squaring
- Optimization and shape-cutting software
- Available with automatic four-station free-fall loading
- Breakout and sorting system options

Aculite Bullet 102 × 144

- CNC 2.5-axis shape cutting table
- Maximum sheet size: 102" × 144"
- Automatic belt transfer and squaring
- Optimization and shape-cutting software
- Available with automatic free-fall loading
- Breakout and sorting system options

Optional Complete-Line Equipment

The Aculite Bullet can be configured as a complete automated glass-processing line with:

- **Aculite Bullet CNC Cutting Table**
- **Automatic Four-Station Free-Fall Loading System**
- **Free-Fall Retrieval/Loading Table**
- **Breakout Table with Air Flotation**
- **Breakout Sorting Monitor**
- **Free-Fall Racks**
- **Harp Storage Racks**

Why Choose the Aculite Bullet?

- **High production speed** for demanding glass-processing operations
- **Automated material handling** reduces operator involvement
- **Shape-cutting capability** eliminates the limitations of manual cutting
- **Optimized nesting** improves glass utilization and reduces scrap
- **Precision servo motion** provides repeatable cutting accuracy
- **Heavy-duty construction** is designed for continuous production environments
- **Expandable system configuration** allows the equipment to be matched to production requirements