



PERFECT SCORE TECHNOLOGIES

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Aculite Bullet Edge Deletion Combo

Model: ABED

Designed for Automated Glass Scoring and Low-E Edge Deletion

The **PST Aculite Combination Score/Delete** Table is a high-speed CNC glass processing system designed to automate glass sheet transfer, squaring, optimized scoring, and Low-E coating removal. With precision servo-driven motion, integrated conveyor systems, automatic squaring, and dedicated scoring and edge-deletion heads, the system provides accurate, repeatable processing while reducing manual handling and maximizing glass yield.



Key Features & Benefits

- Automated glass scoring and Low-E edge deletion in one integrated system.
- CNC scoring of 20+ geometric shapes, including circles, arcs, rectangles, ellipses, triangles, polygons, and custom profiles.
- Automatic glass transfer and squaring with integrated three-belt conveyor system.
- High-density composite tabletop with abrasion-resistant carpet.
- Heavy-duty welded steel frame with replaceable nylon edge trim.
- 3 HP or 5 HP air flotation provides backup glass movement if the conveyor system is temporarily unavailable.
- Precision aluminum bridge and rail construction with hardened, ground linear ways.
- High-resolution digital servo drives provide fast, accurate positioning.
- Automatic cutting-oil dispensing system with adjustable needle valve.
- Computer-controlled Low-E deletion head with abrasive fiber wheel and integrated dust extraction.
- DXF import capability for custom shapes.
- Software-controlled machine setup minimizes mechanical adjustments.
- Integrated optimization software maximizes glass yield across multiple orders, glass types, and sheet sizes.
- Fill Pack capability further improves material utilization.
- Built-in diagnostics, setup functions, job reports, yield reports, and cut-preview capabilities.

Available Configurations

Model	ACULITE BULLET COMBO	
	Shipping Specifications	
	Weight (Lbs.)	Dimensions (LxWxH)
ABED-72x96	3250	148 x 115 x 86
ABED-102x144	3500	182 x 137 x 72
Score & Delete	Auto Squaring	Air Float
ABED-72x96	✓	3 HP
ABED-102x144	✓	5 HP

Precision & Performance

- Maximum straight-line scoring speed: 4,000 IPM
- Acceleration: Up to 90 in/sec²
- Glass scoring tolerance: $\pm 1/64$ "
- Edge deletion tolerance: $\pm 1/32$ "
- Edge deletion width: 3/4"
- Edge deletion speed: 1,000–3,000 IPM
- Standard transfer belt speed: 120 ft/min
- Scoring capability: Up to 1/2" glass
- Minimum compressed air requirement: 90 PSI

Integrated Low-E Edge Deletion

The computer-controlled edge deletion head removes Low-E coating from the designated perimeter of the glass using an abrasive fiber wheel. An integrated vacuum system captures Low-E dust during the deletion process. Once the coating is removed, the cutting head scores the glass according to the programmed cutting pattern, creating a streamlined automated process from coating removal through glass sizing.

Controls & Software

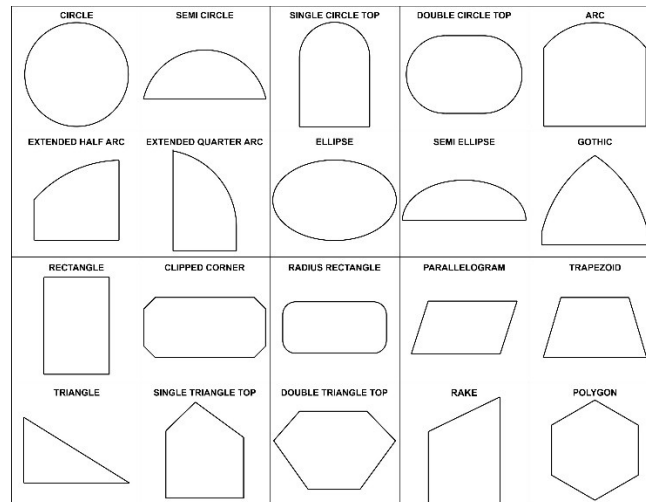
- 5-axis CNC control architecture.
- High-speed computer with wide-screen touchscreen monitor.
- Sealed, air-filtered and voltage-protected control cabinet.
- PST DPS motion-control electronics and digital servo controllers.
- Software-adjustable speed, acceleration, home position, squaring, cutting resolution, edge alignment, skew, and tool offsets.
- Optimized cutting across multiple orders, glass types, and sheet sizes.
- 20+ standard geometric shapes.
- AutoCAD DXF import for custom shapes.
- Job reports and summary yield reports.
- One-year telephone technical support included with the software license.

Specifications

Max Glass Size	ABED-72x96 (72" x 96") - ABED-102x144 (102" x 144")
Max Glass Thickness	Air float < 3.8" , Max scoring glass thickness ½" deletion
Scoring speeds	Max 4,000 fpm - straight line
Edge Deletion speeds	1,000 – 3,000 inch / min
Edge deletion surface width	¾" deletion width
Acceleration	Max – 90 ips/s
Glass Scoring Tolerance	+/- 1/64"
Edge Deletion Tolerance	+/- 1/32"
Transfer Belt Speed	Standard - 120 ft / per min
Electrical Requirements	220V / 3 ph / 40 A breaker , optional 460 volt
Compressed Air	min 90 psi

Glass Shape Library

The integrated shape library supports a broad range of standard profiles, including:
Custom shapes can also be imported through DXF files.



Typical Applications

- Low-E glass fabrication
- Insulating glass manufacturing
- Architectural glass production
- Mirror and specialty glass processing
- Automated shape cutting
- High-volume glass optimization and production

Why Choose the PST Aculite Combination Score/Delete Table?

- Combines scoring, Low-E deletion, transfer, and squaring in one automated system.
- Reduces manual glass handling and production labor.
- Improves cutting accuracy and repeatability.
- Maximizes glass utilization through advanced optimization.
- Automates complex shapes that would be time-consuming to produce manually.
- Designed for reliable, continuous production in demanding glass fabrication environments.