



# Sub Plate Cutting

Optimization Software for Flat Glass Fabricators

Sub Plate Cutting software  
exclusive equipment partner:



Balance the flow of glass through the cutting process and alleviate bottlenecks common during break out with Billco's new cutting table featuring an integrated breaker bar and HP3's Sub Plate Cutting software.

This patent pending process utilizes BatchBan's dynamic algorithm to force Y-breaks and divide each stock sheet into smaller sheets to break out, called sub plates. A constant, but manageable flow of glass is transferred to the breakout table while the remaining sheet is cut into further sub plates.

The quality of the break out is improved by reducing the incidence of healed scores. Remakes can be triggered instantaneously and provided the right timing; remakes can be cut on the same stock sheet. Paired with HP3's BatchBan Cutting, the highest possible yield is maintained while improving the overall efficiency of the cutting process.

## Balances Glass Flow

*Alleviates any bottlenecks in the cutting process by sending smaller sub plates to breakout in a manageable and constant flow.*

Throughput is determined by the speed and efficiency of your slowest station. In most cases, this is determined at the breakout table. As the industry trends towards larger glass, this places a larger burden on breakout. Sub Plate cutting balances the workload being transferred to breakout, giving operators a more steady stream of glass to break out.

## Improves Breakout Quality

*Reducing the amount of time between cut and breakout gives operators fresh scores for quicker, easier and improved breakout.*

The quality of the breakout is improved by reducing the possibility of scores healing. When a score heals, or sits idle too long, it is more difficult to break out and results in hairline fractures along the edge of the glass. These are often missed initially and result in downstream quality issues. Sub plate cutting minimizes the chance of this happening.

## Improves Efficiency

*The balance in workload leads to the highest utilization of your facilities most valuable resources, your labor and equipment. A breakout operator is no longer waiting for the cutter and vice versa.*

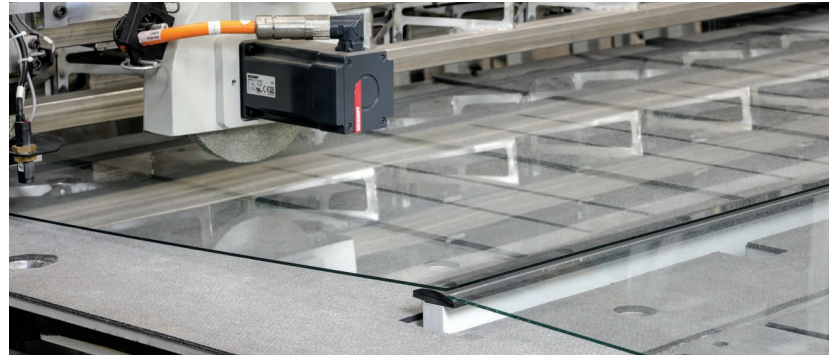
While individual sheet and glass yield is important, Sub Plate cutting shifts focus to the overall flow of your cutting operation by helping to balance the workload at each station, minimizing any bottlenecks and improving the efficiency of the cutting process.

## More Features >

*\*Patent Pending*



## hp3 Sub Plate Cutting



### Instant Remakes

*Sub Plate Cutting applies BatchBan's dynamic logic to every individual sub plate, meaning every sub plate is optimized dynamically. If a remake is queued and the timing is right, it can be cut on the next available sub plate.*

By design BatchBan's dynamic algorithm optimizes each individual sheet of glass. During Sub Plate Cutting, the sub plates become the new "sheets" and are optimized individually. If a remake is triggered on a leading sub plate, the remake could potentially be cut on the next queued sub plate. Additionally, if a remake cannot be added to the same sheet, the software will scan any remnant, if Billco's Remnant Storage System is installed. If remnant can be utilized, it will be queued to be cut next.

### Eliminates Breakout of Large Scores

*Dividing large lites of glass into smaller sub plates, eliminates long scores that can be difficult for a breakout operator to handle.*

As the industry trends towards larger glass, the length of score runs increases too. Depending on the type or thickness of the glass, these make breakout increasingly difficult for the operator. By dividing the sheet into more manageable sizes, the breakout operator can handle the glass quicker and easier.

### Increases Overall Yield

*Sub Plate Cutting balances workflow, minimizes quality issues downstream and improves the overall plant-wide yield.*

The benefits of Sub Plate Cutting improve yield beyond the cutting station. By eliminating bottle necks in work load, preventing the occurrence of improper breakage and utilizing the patented BatchBan software, plant-wide yield is improved greatly.

*\*Patent Pending*

*Sub Plate Cutting is available as an add-on to HP3's patented BatchBan Cutting Software when paired with Billco's Cutting Table featuring an Integrated Breaker Bar.*

**Learn more about Billco's New Cutting Table:**

### Processing Capabilities

**Maximum Glass Size:** 72"x96", 108"x144", 130"x204"  
**Glass Thickness Range:** 2.2-19mm  
**Bridge and Head Drive:** Linear Motor  
**Volume:** High

### Industries

Architectural, Coating, Mirroring, Shower Doors, Specialty

### Key Advantages

Higher Acceleration and Deceleration: Delivers precision and speed for smooth and reliable cutting  
New Cutting Head with Frameless Motor: Lighter but more powerful head design  
Robust Table: Heavy-duty design for reliable and high ROI

### Outstanding Features

Servo-Driven Belt Drive System  
Integrated Breaker Bar  
New Cutting Head Oil Delivery System  
Blue Film Removal, optional  
Re-Designed Edge Deletion System, optional



For more information on Billco's Cutting System, contact your Billco Solutions Specialist.

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