

# INMATE/CT™

## In-Line Cutting to Tempering

INMATE/CT™ improves productivity and throughput by fully automating processing from Cutting to Tempering. Cut glass is conveyed directly from the glass cutting line to the tempering furnace, eliminating the need to rack glass as it travels between these workcenters. This not only speeds up processing, but greatly reduces the possibility of scratching or breaking caused by excessive handling.

INMATE/CT™ allows you to process tempered requirements more efficiently by eliminating the need to sort and rack cut glass. Operators easily build tempered loads by viewing a TV monitor display and placing each lite within a batch on the load bed as shown on the display. This streamlines production of tempered requirements since ALL glass

identification, load bed layout, and off-load identification is provided. INMATE/CT™ increases operator performance by allowing them to process tempered loads quickly and accurately.

Orders are first scheduled for production and then optimized in OPTIMATE™ to insure maximum glass yields. Using the breakout sequence of the optimized layouts, INMATE/CT™ then determines the best orientation of the pieces to meet roll distortion requirements and to optimize the load bed.

Once a production schedule is optimized, it is available to the cutting machine operator via the local area network. When an optimized layout has been cut and conveyed to the breakout table, the Breakout Display will automatically display that layout. At a glance your breakout personnel can easily see which lite is to be loaded first onto the conveyor feeding the load bed of the tempering furnace, as each lite is identified by a sequential loading number. To insure

the orientation of each lite placed on the conveyor is correct, it is loaded base first. A sequence number is also displayed on the tempering furnace Load Display showing where each lite is to be placed within a tempering load. As a load exits the tempering furnace, the Off-Load Display identifies each lite within that load to assist off-load personnel in either packing or racking tempered lites. Optional labels can be printed in sequence order at Off-Load, if required.

INMATE/CT™ is parameter driven, permitting you to customize the system to best utilize your unique tempering furnace requirements.

Settings such as those listed below are easily entered as system parameters to insure maximum tempering furnace performance and productivity.

- Tempering load bed size
- Minimum and maximum piece size
- Glass color and thickness
- Roll spacing
- Roll distortion
- Space between or around lites

These settings are identical to those used in BEDMATE™, PMC Software's Load Bed Optimization software.

INMATE/CT™ provides in-line processing, with no racking prior to processing at Tempering. Bottom line - INMATE/CT™ insures the highest quality tempered product by assisting with roll distortion considerations and reducing the chances for rejects that occur with the traditional process of racking and unranking glass between cutting and tempering. It also expedites the entire cutting and tempering operation, making it possible to schedule and reproduce any remake requirements well in advance of delivery deadlines.



### Maximum efficiency

Eliminates racking of glass from Cutting to Tempering

Decreased turnaround time

Elimination of glass racks frees valuable floor space and allows for more efficient operation

Fully configurable to your tempering furnace requirements

### Puts an end to sorting of glass for production

TV display assists operators in loading the furnace for optimized use

### Increased productivity

Increased operator efficiency

Eliminates excessive handling of glass

Frees employees of routine, time consuming tasks

### Cost savings

Reduces possibility of scratching or breaking due to handling

Decreases the manpower required to process tempered lites



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