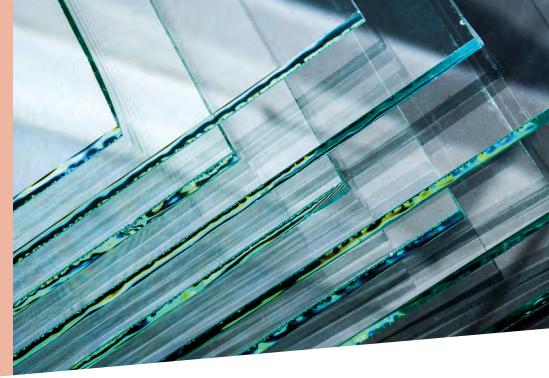


BEDMATE™

Load Bed Optimization for Temperers



Maximizing the efficiency of your tempering furnace insures maximum performance and increased profits.

BEDMATE™ is an easy to use highly efficient optimization program designed to increase tempering furnace load bed yields. This provides cost savings through reduced energy usage and eliminates the need for additional tempering lines or shifts. Through the use of this powerful tool, your tempering furnace operators will spend significantly less time figuring out how to build a tempering load, freeing their time to perform more productive tasks.

BEDMATE™ and RACKMATE™ virtually eliminate the need to sort and stage glass for tempering. Your tempered needs will be automatically sorted and racked for processing by color and thickness, taking into account special requirements such as roll distortion and pattern glass. Lites come off the cutting line in tempering sequence and off the tempering line in schedule sequence.

Flexibility is provided through the use of BEDMATE™'s menu driven screen. Your optimization personnel have control to process tempered schedules based on color, thickness, direction to be tempered, spacing around each lite, starting distance from edge of load conveyor, load bed effective size and a host of other criteria that maximizes the tempering furnace's performance. The system is fully configurable to the specifications of your tempering furnaces.

BEDMATE™ creates a pictorial layout for each load to be tempered in an optimized schedule. These layouts are displayed on a large TV monitor to assist your loading

personnel. Layouts identify each lite of glass to be loaded, its location on the load bed and the spacing required around its perimeter. If a third surface of glass or different logo specifications are required, the system designates these specific requirements at the Load End display by appending this information to the Rack/Slot information. If required, these layouts may also be printed to assist your personnel.

Once BEDMATE™ has optimized each tempering schedule, RACKMATE™ assigns harp rack slot numbers to store cut glass for processing, eliminating the need to sort glass for tempering and greatly improving the tempering department's productivity and throughput.

In addition to the use of harp racks, any buggy, cart or rack used in your facility may be considered. This feature provides a means of storing large quantity orders on available carts or racks, freeing up harp racks for custom orders.

A second monitor placed at the Off-Load end of the furnace displays new rack assignments, which automatically route tempered lites to the next workcenter such as insulating or shipping. For lites going directly to Shipping, the display indicates Boxing information instead of Rack/Slot information. This monitor is also used to identify gaps caused by damaged or missing lites. Through the implementation of TRACKMATE™ these lites may be rejected and automatically incorporated into a special reject file for processing.

BEDMATE™ provides a complete and meaningful set of reports to assist your personnel in processing your tempering requirements.

Maximized bed coverage

- Massive improvement in load bed coverage
- More material finished in less time
- Decreased turnaround time

An end to excessive sorting

- Lites racked off the cutting line in tempering sequence
- Tempered lites at off-load racked in schedule sequence

Cost Savings

- Reduced energy costs
- No need for additional tempering lines or shifts

Ease of use

- Full-color display at load and off-load
- Display provides operator with all necessary information to process each lite of glass
- Roll distortion considered in positioning

Consistency

- Configurable rules
- Consistent, timely solutions
- Never an "off day"



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