

LINEALMATE™

Lineal Optimization for Window Manufacturers



LINEALMATE™ is a powerful and extremely flexible software system that generates optimal yields when cutting lineal material. Manufacturers of all styles of windows are taking advantage of the speed and simplicity of LINEALMATE™ to minimize cutting waste, conserve manpower and tighten control over production and inventory.

LINEALMATE™ lets you use less stock, thereby increasing the efficiency of each sawing center. While LINEALMATE™'s features and benefits as an independent software system are unmatched by any competitive system, when teamed with linear positioners, machining centers and automated welders, even greater accuracy and higher speeds are achieved.

The fundamental requirement of any optimization system is improved yields. LINEALMATE™ users are achieving the highest yields in the industry with cost reductions of 10 % or more; simply by getting the most out of every length of standard linear stock they buy.

LINEALMATE™ also has the power to analyze the impact of cutting from different lengths to guarantee even higher yields. The system also allows optimization of leftover "tail" pieces from previous runs, further reducing waste.

LINEALMATE™'s flexibility lets you create production schedules within your Business System of the volume and in the sequence best suited to your operations. Schedules can contain any mix of window styles and colors in the order you choose. To expedite optimization, sets of schedules can be optimized at different workstations.

An optional powerful formula-based Window Breakdown ability allows LINEALMATE™ to compute cut length requirements based on up to ten different window dimensions, as required for oriel windows. Its unique conditional formulas make it possible to maintain a single breakdown yet accurately define a wide

range of different configurations and options.

During the window explosion process, LINEALMATE™ carefully assigns bin locations to each piece, based upon the particular configuration of carts used at your sawing centers. As a piece is cut, the saw operator simply inserts the part into its bin. Once all cutting is complete, the carts contain all the necessary window components in the sequence of your existing carts. By maintaining your existing sequence of pieces within the carts, your assembly area will not have to change present processing methods.

A verification of formats exists to allow you to transfer cutting requirements from your existing computer into LINEALMATE™. "Bridging" eliminates the possibility of typing errors or omissions that can occur with manual data entry.

LINEALMATE™'s wide range of reports provides various levels of insight into such things as current inventory levels, optimization results and cutting/welding instructions. Reports in easy-to read layouts are available in both hard copy and on-screen formats, so you print only the information needed. The information available through LINEALMATE™'s reports greatly simplifies inventory inquiry and cut-to-size optimization.

With LINEALMATE™, the computer does most of the work – and the software is extremely easy to use. The complete system is menu-driven so the choices are always right in front of the user. All entries are checked for validity before processing.

Simplified controls allow you to set such parameters as saw blade thickness (kerf), leading and trailing trim requirements and minimum-length clamping rules on a saw-by-saw basis. Using this technique, inventory lengths are specified as they are actually ordered from your supplier so loading instructions match the tags on the inventory carts.

Optimal yields

- Increased efficiency of each sawing center by using less stock
- Optimization considers leftover "tail" pieces from previous runs with Tail Optimization add-on
- Calculates the impact of cutting from different stock lengths

Faster Optimization

- Real-time information simplifies production tasks
- Provides total scheduling flexibility
- Processes sets of schedules from different workstations simultaneously
- Reports improve scheduling and control of production and inventory

Seamless integration

- Formula-based configurator
- Simplifies interface to your business system
- Interfaces with automatic saws and welders for full plant efficiency

Easy implementation and use

- Permits use of your own sorting methods
- All necessary window components reach the assembly area in the sequence of your existing carts
- Configurable rules defined for each saw
- "Bridge" eliminates re-keying of order information



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