MPM ENGINEERING LTD.

RESEARCH ENGINEERING SALES

Trimmer Optimizer

MPM's *Trimmer Optimizer* finds the optimal trim solution for a flitch based on the defined board products.

To do this, the *Trimmer Optimizer* incorporates four key elements: image analysis, external inputs (e.g. PLC controls), product definition, and sawmill machinery modeling.

Image Analysis

The detection and application of surface features is used in the processing and optimization routines.

For example, depending on the scanning equipment used, the twist and crook of the flitch faces can be accurately modeled.

External Inputs

An interface is available for our optimization system to receive data from various external locations. This data can be used in conjunction with our internal optimization system, or can be just recorded in the databases for reporting purposes.

For example, a PLC can be used to tell the optimizer the grade information of the flitch from a grader or MSR.

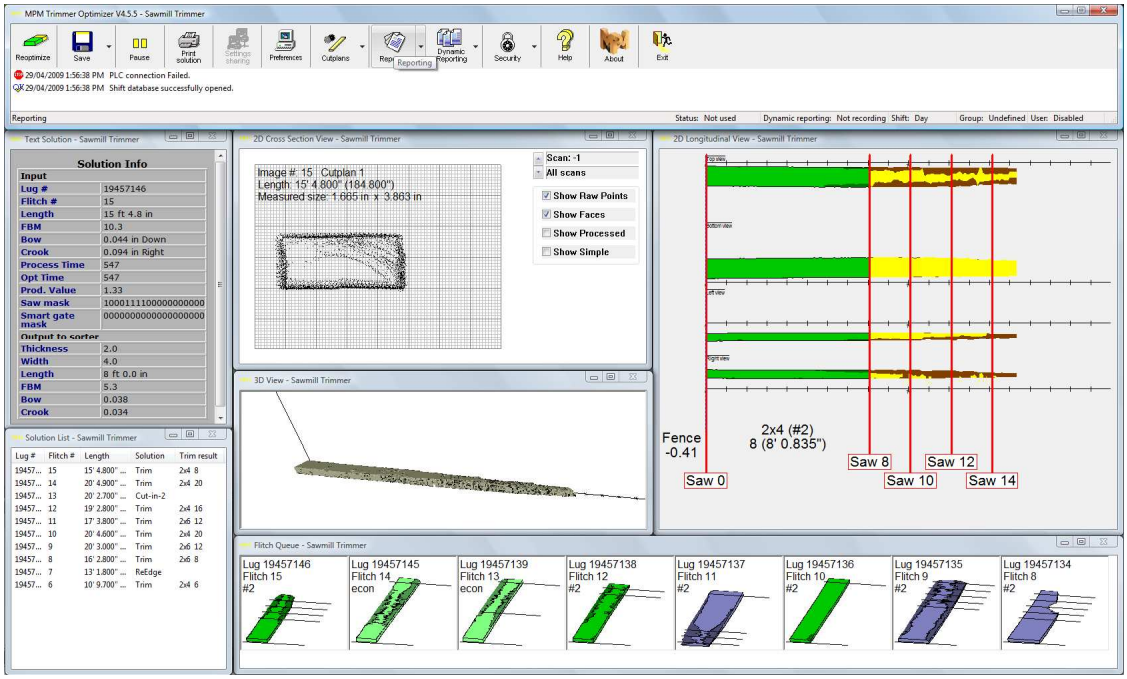
Product Definition

Full product definitions, organized into groups and grades, are used in the product fits for determining the best solution. Using settings such as *Wane*, *Length*, and *Value*, a multitude of situations can be optimized for.

Sawmill Machinery Modeling

MPM's optimization systems contain detailed machine models in order to closely represent the sawmill process – and the Trimmer Optimization system is no exception. Whether the sawline is skewing, ripping-in-two, or cutting-in-two, our machine models are manufacturer specific and configured to all limits defined by the customer and manufacturer's recommendations.

Key Features:



- Scanner type independent for customer flexibility.
- Simulations can be run off-line to evaluate different parameters and machinery configurations.
- Optimization can be based on price or volume while allowing product priority to attain specific production requirements.
- Optimizes using a variety of downstream machine types/brands and their specific features. (*Trimmers*, *Edgers*, *etc*.)
- Optimizes for a more detailed product by considering *Compound Wane, Saddle Wane, Wane Equivalency, Bow, Crook,* and *Twist*.
- Optimizer solutions can either be *Trim*, *Re-edge*, *Cut-in-two*, or *Rip-in-two*.
- Both green and dry mills supported with the addition of dry mill *Planer Runs* and *External Grader Information.*
- Designed for line speeds of up to 150 lugs / minute.
- Colour scanning starting to be incorporated.
- A variety of graphical displays help the user to analyze a solution.
- Extensive and customizable production reports.

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