

Product Information Note

OptiVision Trim OptiMISER



OptiVision Trim OptiMISER allows paper and continuous web manufacturers to realize highest return on investment in shortest time by significantly reducing finishing losses.

Improve Your Business with Trim Optimisation

Honeywell's Trim OptiMISER™ is a highly advanced, fully-featured fine planning and scheduling software system that provides optimal solutions to complex sheet and roll trim problems, under OptiVision Product Suite of Applications for Pulp & Paper and Flat Sheet Industry. Trim OptiMISER™ allows Honeywell's customers to help reduce costs and increase productivity. It is specifically designed to let the user balance the conflicting objectives of winder yield, finishing yield, finishing equipment throughput, inventory and order fulfillment. All control information can be configured and fine-tuned by the user.

Trim OptiMISER produces a one step optimization of winder schedule and patterns and finishing routings (cascaded with Sheeter and Re-Winder schedules wherever applicable or on demand) for any mix of roll and sheet orders based on equipment specifications, edge trim rules, expected losses and mill practices. Sheet orders are entered as finished size and ordered weight. Roll orders are entered as ordered weight or number of rolls. Trim OptiMISER supports multiple units of measure.

Benefits

Trim OptiMISER benefits span across multi-stage equipment operations in reducing and controlling costs by :

- Eliminating material losses
- Shortening Production set up time
- Improving Finishing equipment throughput
- Optimizing Over-make and under-make
- Responding quickly to real-time changes in density, product quality, etc with re-trim
- Better utilization of schedulers
- Providing a single window to all trim planning requirements (winders, re-winders, sheeters, etc)

- Meeting variety of needs by being highly configurable
- Generates reports and helps in Trim analysis

Solution Capability

- Optimal winder trim yield
- Minimizes number of logical patterns
- Avoids single-set patterns
- Low edge trim loss
- Quantity produced targeted on ordered quantity, stays within trades tolerance
- Capability to full control the trade-offs between the above conflicting objectives
- Ability to re-trim to accommodate production variances
- Solution Edit capability

Features

Finishing Capabilities

- Re-winder
- Simplex cutter or precision sheeter
- Trimmer
- Extruder
- Duplex sheeter or duplex cutter
- Bi-Winder

Features to improve results

- Optional (stock, inventory) orders, user-specified preference
- Schedule Rewinding, if not enough slitters
- Trim around "bad-spot" in the web
- Patterns sequenced to reduce the number of slitter changes

User Controls for fine control

- Optimisation Policies & Parameters: to choose or not choose an option or even to balance the optimisation objectives
- Order values and options
- Equipment values and options

- Roll or core diameter changes
- Wire/felt side inter-trimming
- Allow multiple sizes in a parent roll
- Accommodate rolls per pack
- User controls preference for rewinding as a solution
- Order can specify always rewind or never rewind

Sheet Finishing Features

- Optimization is on winder loss plus edge trim loss
- Weight at winder considers edge trim and sheeter processing losses
- Full control over sheet multiples in cutter rolls
- Produce cutter parent rolls at constant or variable diameter
- Make sheets of nearly the same width in the same cutter roll
- Trade-off of width versus weight controlled by user
- Cutter backstand loading considers:
 - Order overproduction or underproduction
 - Winder loss
 - Number of patterns
 - Weight under the knife
- Routing through cutter, sheeter and trimmer:
 - Automatically determined for best utilization
 - User-specified for each order
- No roll produced at winder above specified weight
- Edge trims specified by equipment and sheet size
- Inter-trim with shipping rolls
- Fully utilizes quantity tolerance to give better results
- Near width combining and Side-by-side trimming
- Opportunity for backlog balancing at time of trim optimization

Roll Finishing Features

- Can be setup to produce according to customer or company specific order tolerances or exactly to ordered quantity levels.
- All the rewinding features are available
- Option to always produce in packing multiples, when creating trim pattern for narrow rolls and bundling them
- Restrict the number of narrow rolls in a pattern

Orders

- Any mix of roll, trimmed or untrimmed sheet orders
- Imperial and metric units
- Ability to trim by weight, number of rolls, or by length
- Over-make and under-make tolerance specified for each order or globally
- Premium zone (non-edge, partial edge, preferred edge, etc) request
- Hot Orders
- Multiple core sizes and core types
- Order selection using multiple criteria
- Inter-trim codes for finer control

- User specified options :
 - Parent roll size
 - Grain direction

Rewinding Functions

- Improves winder throughput by automatically routing larger base roll sizes to rewinder
- Automatically plans and schedules
 - when not enough slitters on winder
 - Rolls too narrow to be cut on the winder (dead-zone)

The screenshot shows the 'Logical Patterns Full Screen Edit' window. It features a menu bar (File, Edit, View, Favorites, Tool, Action, Help) and a toolbar. Below the toolbar are dropdown menus for 'Sequence By', 'Ship Date', 'Cuts By', and 'Cuts By Order Item'. The main area contains a table with columns for 'PAT SETS', 'NUM PLAN/DECIDE', 'ORDER ITEM', 'SHIP PROMISE', and 'P. FROM P. EDGE'. The table lists 12 rows of data, each representing a different roll configuration with various parameters like sequence numbers, dates, and roll specifications.

Trim Pattern Display

System & Support Capabilities

- Supports both Metric and Imperial Units
- Localisation for Asian character support (Unicode)
- Microsoft windows compliant
- Online help documentation
- Reporting capability
- Training & support
- Professional support & consulting options

Support Services

This product comes with worldwide, premium support services through our Benefits Guardianship Program (BGP). BGP is designed to help our customers improve and extend the usage of their software applications and the benefits they deliver, ultimately maintaining and safeguarding their software investment.

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For More Information

Learn more about how Honeywell's Trim OptiMISER can manage quality data visit our website www.honeywellprocess.com/software or contact your Honeywell account manager.

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PN-17-19-ENG
January 2017
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