

## The Art of Fine Planning

opt-Studio® is the premier advanced planning and scheduling system (APS) created by Greycon. A single desktop, with a unified, sleek and powerful user interface, it will provide you with all the necessary fine planning functionality for the Plastic Films, Metals, Nonwovens, Converting, Printing, Paper and Board industries.

opt-Studio is designed to support multi-site scenarios, seamlessly combining Greycon's world-class trim optimisation with the capability to generate optimised block schedules.

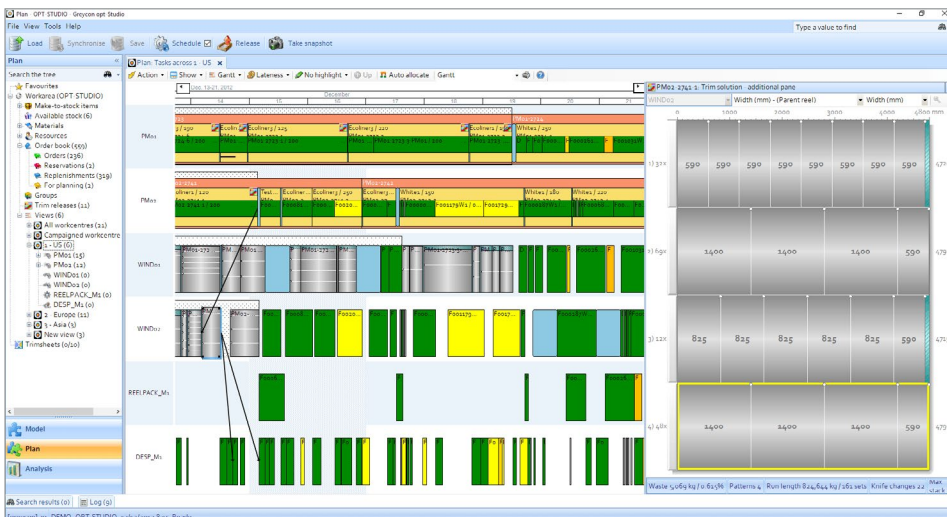
opt-Studio delivers short-term and mid-term planning capabilities for your business. opt-Studio will schedule every stage in complex multi-stage processes, taking into account physical constraints, material availability, planned downtime and operator skill sets.

Greycon's consultants will take care of the whole process, working with you to configure the systems from the initial testing phase through to implementation and aftercare. Greycon will provide the support you need whether it's remotely or on-site in every corner of the world.

### Key Features and Benefits

- Generate an optimised block schedule for a mid-term horizon
- Create a replenishment plan that meets your inventory targets
- Find optimal solutions for your trimming problems
- Define quotas at the block level, to control capacity, revenue and customer service
- Refresh the schedule automatically on every machine in a few seconds, giving full visibility of the impact of your decisions or external events
- Provides Just-in-time material replenishment orders, synchronised with the schedule
- Determine the best date to place orders for raw materials
- Integrate with Enterprise Resource Planning (ERP) systems like SAP, Microsoft Dynamics and JD Edwards
- Provide Available-to-Promise / Capable-to-Promise (ATP / CTP) engine for Order Entry Systems to promise dates for new order enquiries
- Release the short-term plan to the shop floor and receive production updates to monitor the execution
- Compare multiple alternative solutions using what-if capabilities

**Reduce setups 15%**  
**Reduce late orders 10%**  
**Reduce stock-outs 70%**  
**Increase throughput 20%**



### Multi-site Scheduling

opt-Studio is designed to support multi-site scenarios. These capabilities include:

- Multi-site ATP/CTP
- Ability to one-click transfer an order from one site to another
- Site-specific transportation modes and costs part of the optimisation objective function

### Block Schedule Optimisation

The block schedule optimiser simultaneously:

- Creates campaigns for primary lines (e.g. Paper Machines, Extrusion Lines, Board Machines)
- Creates replenishment orders for Make-to-Stock items
- Allocates Make-to-Order demand and replenishment orders in the created campaigns
- Minimises a mix of production, setup, customer service, inventory and transportation costs
- Can optimise simultaneously two linked campaign stages (e.g. Plastic Machines and Cutters)
- Average execution time less than 10 minutes

### Finite Capacity Scheduling

Can schedule complex multi-stage production processes by sequencing the tasks on each workcentre

- Takes into account raw material availability
- Considers requirements of finitely available tools
- Imposes shift patterns on machines and operators
- Can automatically determine the best machine for a task to reduce setups or balance workload
- Allows injection of existing or future (finished/semi-finished) stock at any stage

### Trim Optimisation

Delivers optimal solutions for various types of trimming problems

- Can minimise waste or maximise profit
- Supports different diameter problems (constant, multi-constant)
- Allows optional and all-or-nothing orders
- Optimises across multiple primary machines and sites, while controlling the extent of splitting
- Supports simplex cutters, rewinders and web welders (or skivers)
- Considers standard sizes, which can be added as optional orders to improve the trim
- Contains powerful secondary optimisation algorithms to minimise the number of patterns and minimise knife changes, among others
- Considers various types of multi-pack (bundling) constraints
- Takes into account position constraints in terms of the position on the web
- Can automatically exchange orders between compatible runs to minimise the global trim, without compromising due dates
- Displays solutions graphically and allows the user to override any part of the solution

### ATP/CTP Module

This module explores the schedule and the inventory on hand to suggest a feasible promise date for new order enquiries.

- Considers finished and semi-finished stock as well as the machines involved in the multi-stage production process
- Orders can be sourced from a mix of primary production, semi-finished and finished stock

### Integration

- Out-of-the-box integration with Greycon's GreyconMill and X-Trim
- Integrated with SAP, Microsoft Dynamics and JD Edwards, among others
- Message based integration (inbound and outbound)

### Internationalisation

- Metric and imperial units of measure
- Multiple languages, including Far Eastern character sets
- Full support for Windows' Regional Settings

### Reporting

- Programmable reports with Crystal Reports that can be exported in various formats (Word, Excel, HTML, PDF, etc.)
- Web-based reporting, including the ability to create new reports with no programming
- Import/export all grids from/to Excel
- Printable Gantt Chart

### User Interface

- Modern tab based interface, adaptable text and appearance
- All editors and grids can be configured per user

### Platform

- Windows, 7, 8, 10, Windows Server 2012, 2016 64-bit
- Windows Terminal Server & Citrix compatibility
- Oracle or Microsoft SQL Server database
- Parallel processing on multiple cores

### User Management

- Windows based authentication
- Configurable user permissions controlling access to functionality



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