PLATAINE®

people-smart automation

FabricOptimizer
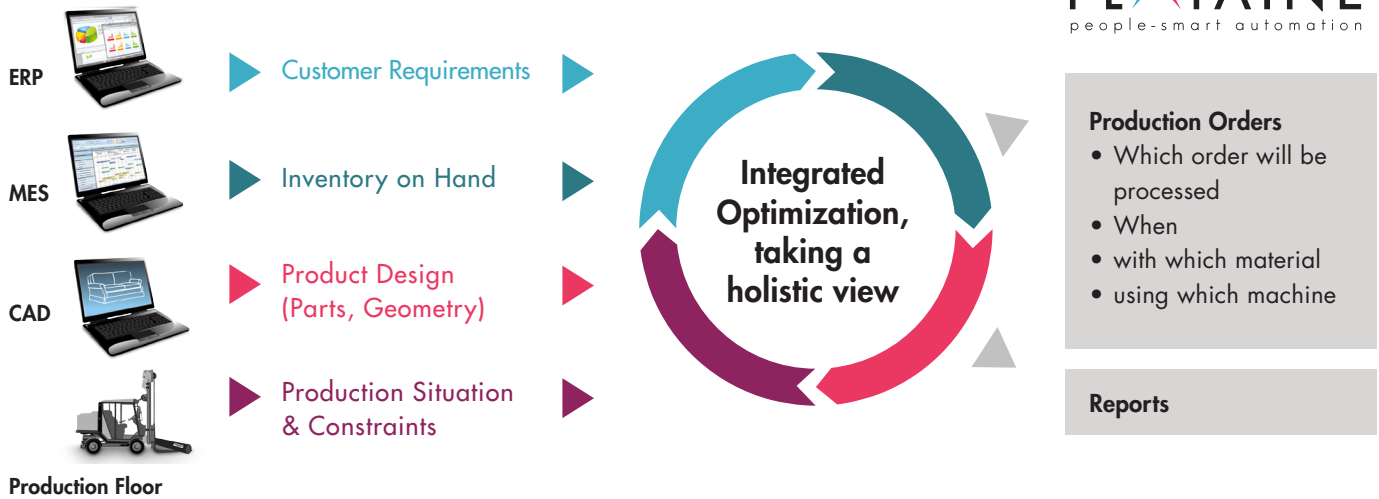### FOR THE FURNITURE & UPHOLSTERY INDUSTRIES

TOTAL PRODUCTION OPTIMIZATION (TPO)
TPO delivers better productivity at lower cost through cloud-enabled automation. Plataine's sophisticated solution automatically produces real-time, optimized, holistic product plans seamlessly integrated with your existing infrastructure.

Benefits

- Automation drives throughput increase
- Over 10% higher material utilization
- Reduce manual tasks and paperwork
- Streamline production, minimizing re-work & scrap
- Higher manufacturing yield
- Shorter production cycles
- Improved product quality

OVERVIEW

FabricOptimizer is part of Plataine's integrated Total Production Optimization (TPO) suite, targeted to specifically address the challenges of the upholstery industry. FabricOptimizer empowers upholstery manufacturers to enhance production using Industrial-Internet-of-Things-enabled automation solution. Context-sensitive algorithms create ready-to-cut production plans integrated with your existing infrastructure, adapting to what makes your company great. FabricOptimizer puts every aspect of production at your fingertips in real time, allowing you to be more competitive by increasing material utilization, improving throughput, and controlling quality.

Key Features

- Optimization based on real-time extensive production data
- Automated ready-to-cut production plans
- Seamless integration with your existing IT systems
- Rich & flexible settings
- Supported common geometry formats
- Shop-floor visibility & reports
- Quick deployment

Context-Sensitive Automation

The next generation of Internet-of-Things enabled automation software. Adapt at the speed of the market.

Total Production Optimization

Enable end-to-end optimization, from ordering inventory to customer delivery and everything in between.

Time is Money. Save Both.

Root out inefficiencies at every level of your operation. That means savings on time, materials, and the bottom line.

Your Intelligent Automation Partner, Delivering the Factory of the Future.

ERP → Customer Requirements →

MES → Inventory on Hand →

CAD → Product Design (Parts, Geometry) →

→ Production Situation & Constraints →

Production Floor

Integrated Optimization, taking a holistic view

Production Orders
- Which order will be processed
- When
- with which material
- using which machine

Reports

Dynamic, Holistic & Real-time: TPO optimally decides WHICH Production order to run, WHEN, using WHICH raw material, on WHAT machine, WHILE creating the optimal nest & production plan.

Key Features

OPTIMIZATION BASED ON REAL-TIME EXTENSIVE PRODUCTION DATA
Dynamically (on the fly) consider and optimize all aspects of the rolls' cutting process at the same time, including: orders and product requirements, product–part geometry, inventory on hand, cutting and nesting requirements and constraints, and more.
Optimize cut plans by dynamic mixing of part models and assigning them to specific roll according to its length, width and remnant utilization considerations.

AUTOMATED READY-TO-CUT PRODUCTION PLANS
Elimination of routine tasks and human errors by automating cut plan generation, integrating with ERP for orders, CAD for styles and inventory management system for material. Predefined scheduler imports files automatically while reducing manual labor.

SEAMLESS INTEGRATION WITH YOUR EXISTING SYSTEMS
Flexible integration layer and interfaces that allow TPO to send and receive all necessary data from and to the adjacent systems such as ERP, MES and CAD/PLM.

RICH & FLEXIBLE SETTINGS
Powerful configuration tools enable to setup FabricOptimizer to match your preferences and needs. Configure business rules such as mixing, nesting constraints (flip, rotation, gap, etc.), import layers, and graphic displays.

SUPPORTED COMMON GEOMETRY FORMATS
FabricOptimizer supports most common geometry formats such as DXF, CEI, PLX-XIN.

SHOP-FLOOR VISIBILITY, TRACEABILITY & REPORTS
Improve traceability and quality by keeping accurate records and logging all cut plans results and history while automating reports for management and shop floor workers. All nested jobs (pending, being processed or completed) are logged for future reference. Additionally, FabricOptimizer provides printouts of the cut plan nests for shop floor workers.

QUICK DEPLOYMENT
Ease system ramp up and ongoing generation of cut plans using advanced tools such as Plan Creation Wizard, easy import of data via excel/csv, and built in library.

"Since going-live with TPO, we have consistently increased our material utilization by over 6% through optimized nesting, and achieved additional savings through methodical reduction of short-end rolls in our warehouse. With TPO, 15% of today's work-orders are nested over more than one roll, utilizing fabric that would have otherwise been written off."

Cliff Thorn,
VP of Upholstery Manufacturing, Ethan Allen

ETHAN ALLEN

ABOUT PLATAINE: Plataine is a leading provider of production optimization software solutions for manufacturers of composite-material, wood, textile and foam products. Plataine's production optimization solutions enable manufacturers to be more competitive by increasing material utilization, improving productivity and shortening manufacturing cycles to ensure on-time delivery of products to customers. Plataine's solutions are used by hundreds of manufacturers worldwide, including Ashley Furniture, Basset Furniture, Century Furniture, Ethan Allen, Flexsteel, Haworth, Interstate Foam & Supply, Lazar Furniture, Steelcase and more. For more information visit www.plataine.com

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