

## WoodOptimizer FOR THE FURNITURE & UPHOLSTERY INDUSTRIES



### TOTAL PRODUCTION OPTIMIZATION (TPO)

TPO delivers better productivity at lower cost through cloud-enabled automation. A fully integrated end-to-end solution for optimizing plywood cutting through dynamic nesting and cut-path optimization.

### Benefits

- Higher material utilization
- Increased router productivity by 10%-30% through optimized cut-paths, increased cutting speed and reduced idle time
- Reduced WIP (Work-in-Process) inventory
- Shorten Order-to-Delivery time
- Automating routine manual tasks eliminating errors

### OVERVIEW

WoodOptimizer for plywood cutting industries, seamlessly bridges the gap between ERP/MRP, CAD and the production floor. WoodOptimizer creates ready-to-cut production plans by retrieving critical information from both the ERP/MRP and CAD systems and optimally selecting the sheets to be used. Based on that information, WoodOptimizer's sophisticated algorithms automatically produce optimized production plans. WoodOptimizer is offered as a Service - the SaaS model offers minimal upfront expenditures, faster time to value and ongoing payments that are closely coupled with your savings.



#### 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.

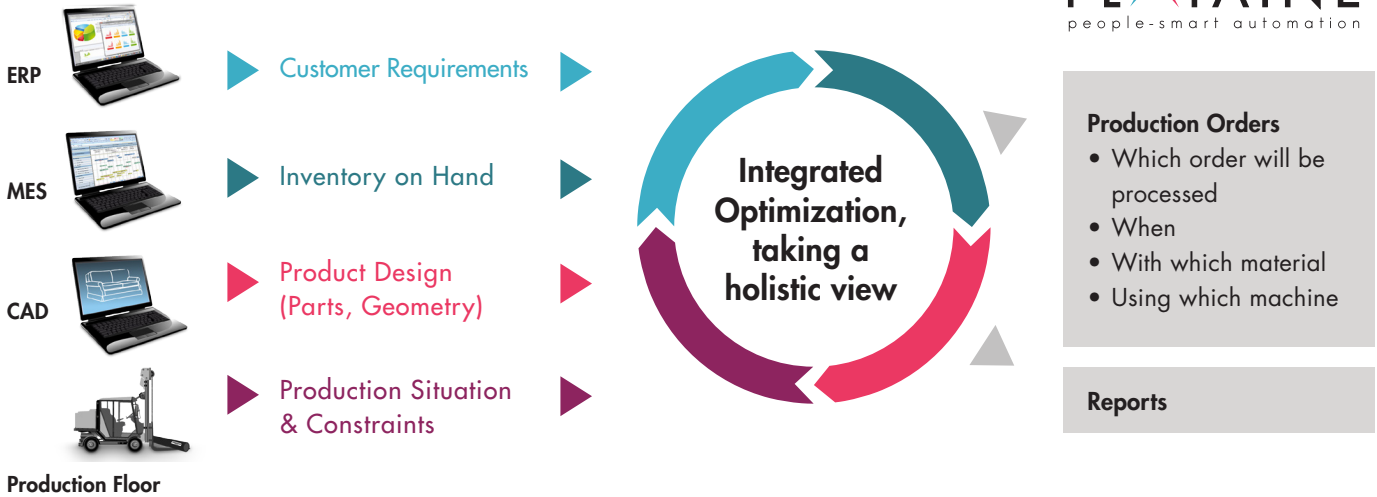


#### Time is Money. Save Both.

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

### Key Features

- Integrated automatic cut plans
- Toolpath and CNC integration
- Cut plans optimization
- Rolling nest
- Production scheduling
- Rich & flexible settings
- Quick deployment and ramp up



**Production Floor**

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

### INTEGRATED AUTOMATIC CUT PLANS

Eliminates routine tasks and human errors by automatically receiving the actual order details and generating ready to cut production orders including integration to SolidEdge and SolidWorks.

### TOOLPATH & CNC INTEGRATION

Integrates to most CNC machines and controller models and provides toolpaths, highly efficient G-codes and automatic multiple heads selection.

### CUT PLANS OPTIMIZATION

WoodOptimizer's servers continuously search in the background for improved nesting alternatives for given kits combinations to quickly provide an optimal cut plan in any given situation.

### ROLLING NEST

WoodOptimizer automatically creates a continuous cutting environment while orders stop or start within the same sheet. When a work order is generated, the application selects the best machining order to minimize waste and produces nests with both vertical and horizontal roll over between styles.



Sheet 1      Sheet 2      Sheet 3      Sheet 4

### PRODUCTION SCHEDULING

Automatic assignment of work to the appropriate work center and machine, providing manufacturing information to shop floor stations and collects real time progress reports.

### RICH & FLEXIBLE SETTINGS

Set up WoodOptimizer to match your preferences and needs using powerful configuration capabilities of tools, heads, machines, vacuum, rollers and more.

### QUICK DEPLOYMENT AND RAMP UP

Easy system ramp up and ongoing generation of toolpaths, easy integration to CAD systems such as SolidEdge and SolidWorks.

"We have seen a 17% to 18% increase in wood yield with WoodOptimizer"

*David Lewis, VP Upholstery Manufacturing, Drexel Heritage*

DREXEL HERITAGE

"TPO reduced plywood scrap by 60% and WIP parts inventory by 90%"

*Larry Goad, Residential Upholstery Division Manager, Bernhardt Furniture*

BERNHARDT

"Utilizing WoodOptimizer's RollingNest feature, an order that originally consumed 25 sheets of plywood was done using only 19 sheets"

*Shea Teague, Manufacturing Manager, Southern Furniture*

SOUTHERN FURNITURE COMPANY

**ABOUT PLATAINE:** Plataine Technologies 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.