



Your Intelligent Automation Partner  
Delivering the Factory of the Future

Total Production Optimization Solutions  
for Furniture & Upholstery

## TOTAL PRODUCTION OPTIMIZATION

### Cloud-enabled Manufacturing for Businesses that Aim for New Horizons



Manufacturing in the Furniture & Upholstery industries demand cutting edge precision and maximum yield of expensive materials. Plataine's Total Product Optimization (TPO) technology offers unprecedented capabilities to do both, augmenting every step of the production process through the Industrial Internet of Things (IIoT). TPO leverages RFID technology, state-of-the-art sensors, and proprietary algorithms to work with your existing infrastructure to maximize efficiency and precision, from raw materials to customer delivery.

### Solution Benefits

- Increased manufacturing throughput by more than 5%.
- Reduced tool changing and machine set-up times.
- Improved quality & quality control is achieved by maintaining full traceability from raw material to end product.
- Enhanced visibility and real-time view of the production floor.
- Reduced re-work & waste due to our Artificial Intelligence algorithms and award-winning optimizers.

## IIOT & THE PLATAINE ADVANTAGE

### Bridging the Gap Between Management, Engineering & Production

Our breakthrough intelligent-automation technology sits between ERP, PLM/CAD, and the shop floor, providing new capabilities at every step of the production process. Raw materials are indexed by batch, shade, production quantity, and dimensions, among many other configurable metrics. This data syncs with engineering data from CAD, allowing for significant material savings through enhanced remnant utilization, order mixing, and the ability to combine multiple orders back-to-back on the same roll, increasing our customers' corporate bottom line every year.



**PLATAINE OPTIMIZER**  
Context-aware actions & recommendations in real-time

**PLATAINE ANALYTICS**  
Reports, alerts, insights, learning

**DATA COLLECTION**  
Range of data sources, protocols and methods of collection

*Plataine's solutions turn data into knowledge, and knowledge into decisions allowing real-time data and context driven actions*

### The Plataine Methodology

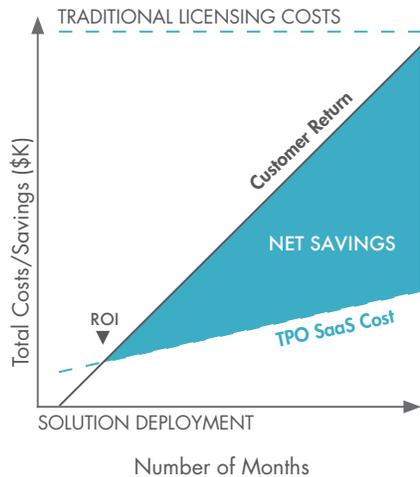
**Step 1: Automatic Data Collection and Digital Tracking** - allows manufacturers to regain control and visibility by backend systems' dashboards & reports, gain increased traceability and better costing evaluations.

**Step 2: Real time information and "context-aware" knowledgebase** – instant alerts and notifications for supervisors allow real-time data-driven actions.

**Step 3: Context-aware, optimized and automated decisions and actions** – by integrated solutions from production planning to execution.

**Get the Most From Your Investment with Plataine's Software-as-a-Service Delivery Model**

Plataine's Software-as-a-Service (SaaS) delivery model harnesses the cloud to provide secure, risk-free, and more cost-effective manufacturing solutions that seamlessly integrates with the processes and hardware that make your company great.



**SaaS Benefits**

- Immediate ROI – With the SaaS model Plataine's customers to achieve ROI straightaway.
- Minimal Upfront Expenditure – No need to pay for the software upfront, meaning a faster ROI.
- Enterprise-Class Security – Cloud solutions offer maximum security for when your network being compromised is not an option.
- Let Us Handle the Details – Our team of application experts are available to you to help solve any problem, big or small.
- No More Downtime – We handle the upgrades on our end, eliminating machine idling and maintenance requirements.

ETHAN ALLEN

"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*



BASSETT

"We have no inventory of frame parts anymore; frames that are cut today are upholstered tomorrow"

*Mark Jordan, VP of Upholstery Operations, Bassett Furniture*



BERNHARDT

BERNHARDT

"TPO reduced plywood scrap by 60%, Work-In- Process (WIP) parts inventory by 90% and reduced labor numbers at Bernhardt"

*Larry Goad, Residential Upholstery Division Manager, Bernhardt*

IFS



"Plataine's integrated solution helped us fully automate our cutting processes from entry to production, while offering our operators ready-to-cut, optimized nests for all products, materials and machines in our production line...Plataine's system benefits include over 20% savings in fiber consumption, over 10% savings in foam consumption, and an increase of 30% in foam-cutter throughput. We are now consistently seeing foam bun yield percentages in the upper nineties"

*Steve Bowman, CNC Programmer, Century Furniture*

SAM MOORE



"What really stands out is TPO's simplicity. It is user friendly from the supervisor to the operator, and that alone generates a faster response time to the shop floor. I think it has been a great investment that allows us to grow as the company grows. I'll put it this way, the operators like it and complain when they have to switch over to other systems to finish an order for a frame that hasn't been converted to TPO yet!"

*Jason DeLong, Design Engineer, Sam Moore Furniture*

Plataine is the leading provider of Intelligent Automation software for advanced manufacturers, leveraging IoT and Artificial Intelligence Technologies. Plataine's Total Production Optimization (TPO) solutions bring the world of IoT to furniture & upholstery industries and leverage state of the art patent-protected technologies, to enable manufacturers on-time delivery and significantly improved bottom lines. Plataine's solutions are used worldwide by top-tier manufacturers using plywood, fabric and/or foam.

FOR MORE INFORMATION

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