

MAT[™] (Material & Asset Tracker) FOR THE COMPOSITE PART MANUFACTURING INDUSTRY



Plataine's Manufacturing Optimization (Tracking as a Service) platform delivers better productivity at lower cost through cloud-enabled automation. Plataine's sophisticated software platform brings real-time visibility of critical mobile assets, automatically produces real-time, optimized, holistic production plans utilizing your existing infrastructure.

Benefits

- Enhanced visibility by tracking critical assets in real-time
- Improved quality & quality control by maintaining full traceability of the Digital Thread from raw material to end product
- Audit data is available at all times
- Defect repetition prevention by automatically tracking tool utilization and work cycles
- Paperless and streamline production processes
- Increased staff efficiency by creating a paperless production environment
- Reduced re-work & waste

OVERVIEW

MAT (Material & Asset Tracker) is part of Plataine's integrated Manufacturing Optimization Solutions, targeted to specifically address the challenges of composite part manufacturing. MAT[™] enables composite manufacturers to enhance production using Industrial IoT and AI-based optimization solutions. Context-sensitive Digital Assistants create ready-to-cut production plans integrated with your existing infrastructure, adapting to what makes your company great. MAT[™] puts every aspect of production at your fingertips in real time, allowing you to be more competitive by increasing material utilization, improving productivity, controlling quality while increasing manufacturing throughput.



AI-based Digital Assistants

The next generation of IoT - enabled manufacturing optimization software. Adapt at the speed of the market.



Full Production Traceability

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

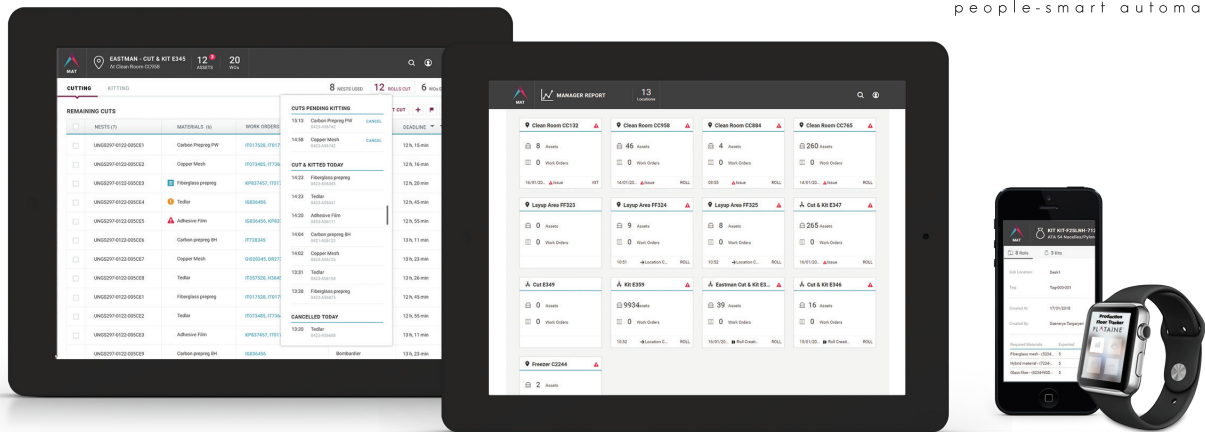


Real-time Alerts and Insights

Get real-time alerts and actionable recommendations to immediately identify quality issues before they escalate.

Key Features

- Track assets' location: raw material pre-preg rolls, kits, tools and layup molds
- Manage material and assets shelf life
- Provide production insights to operators and managers
- Handle asset relationships and part genealogy
- Perform impact analysis when quality concerns arise
- Configure customized alerts
- Trace assets' history of events and quality information
- Real-time visibility into the production floor using Live Map



Mobile Technology Replaces Paper, Enabling Real-time Reporting, Collaboration & Actions

Key Features

TRACK ASSETS LOCATION

Track the location of assets as they move from one station to another throughout the manufacturing process: rolls, kits, resin buckets, resin kits, core splices and tools. MAT™ integrates to RFID and other shop floor sensors to collect real-time, context-aware information of assets' location and condition.

TRACK SHELF LIFE OF ASSETS

Automatically calculating exposure time and expiration of composite material. Extend shelf life parameters (expiration date and exposure time) based on authorization control.

TOOL TRACKING

Real-time visibility of high-value mobile assets using a variety of tracking technologies to track changes to tools' location, condition, conformity status, availability and autoclave cycles, creating an automated log of each tool's usage and maintenance data.

CONFIGURE CUSTOMIZED ALERTS FOR COMPOSITES

Alerts for assets that are close-to or exceeded expiration date and exposure time; Short rolls alert for improving material utilization; Maintenance cycle alerts for tools, and more.

GAIN FULL ASSETS' TRACEABILITY

View assets that were added to other assets (following the "Digital Thread" up to the raw material). Export asset history log into excel or csv for audit purposes.

REAL-TIME VISIBILITY INTO THE PRODUCTION FLOOR USING A LIVE MAP

Presents all movement of assets within the tracked locations including a summary view enabling better control of the production floor.

EASY INTEGRATION WITH EXISTING SYSTEMS

Quick integration with ERP, Inventory Management Systems and other existing systems to ensure the continuity of information flow, avoiding the need to re-enter data.

"It was our goal to optimize our processes and deploy an IIoT-based solution to cut-down costs, identify problems on the factory floor, and take necessary actions to prevent them from accruing. Together with Plataine we set the best possible processes in place, allowing us to gain full visibility and traceability over material, WIP, tools and finished products, and to reduce re-work, improve our manufacturing yield and our overall efficiency"

*Thierry Ducro,
head of procurement and
supply chain at HHACMC*



ABOUT PLATAINE: Plataine is the leading provider of Industrial IoT and AI-based optimization solutions for advanced manufacturing. Plataine's solutions provide Material & Asset Traceability and Digital Assistants that empower manufacturers to make optimized decisions in realtime, every time. Plataine's patent-protected technologies are used by leading manufacturers worldwide, from every level of the supply chain, including Airbus, GE, IAI, Triumph, General Atomics, TPI, Hengshi, PCC, Steelcase and Argosy International. Plataine partners with Google Cloud, Siemens PLM, GE Digital, McKinsey & Company, the AMRC with Boeing and CTC-Stade (an Airbus Company), to further advance the 'Factory of the Future' worldwide.