

## Production Scheduler

AI-BASED ALGORITHMS TO OPTIMIZE PRODUCTION PLANS, INCREASE THROUGHPUT, REDUCE WASTE, AND IMPROVE ON TIME DELIVERY



### OVERVIEW

Production Scheduler acts as a Digital Assistant, that schedules work orders to optimize factory resources, integrating planning and scheduling with the factory floor, and optimizing production resources such as materials, equipment, machines and tools.

Production Scheduler, part of Plataine's TPO (Total Production Optimization) suite of applications, uses AI-based algorithms to generate an optimal schedule while leveraging historical and real-time data, bottleneck prediction, equipment efficiency and expected duration for tasks, to continuously improve the schedule enhancing throughput and on time delivery.



Connected to  
the production  
floor



Proactively  
adjusted schedule  
in real time



Seamlessly integrated  
with all other TPO suite  
applications

### TPO Suite

Plataine's TPO (Total Production Optimization) is a modular suite that offers Industry 4.0 solutions to solve production challenges by utilizing Plataine's Digital Assistants, delivering alerts & smart recommendations in real-time to digitalize and optimize manufacturing processes.

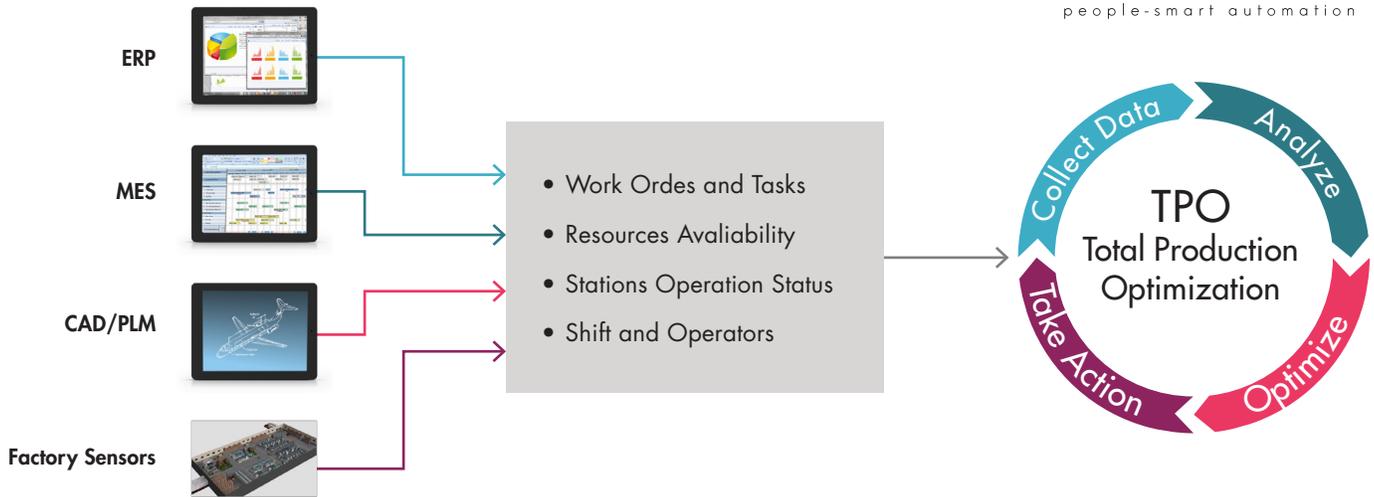
Plataine's TPO suite of applications include Material & Asset Tracker, Shelf-life Manager, Tool Manager, Quality Manager, WIP Optimizer, Supply Chain Manager and FabricOptimizer.

### Benefits

- Maximized production efficiency while avoiding bottlenecks
- Updated automatic scheduling based on production inputs & progress
- Compare planned vs. actual
- Increased material and resources utilization
- Improved on-time delivery

### Key Features

- **Interactive Gantt visualization**
- **Enhanced and intuitive functionality:** easy drag & drop, schedule tracking, export reports, lock and unlock tasks
- **Auto-scheduling:** automatic context-based response. Shop floor changes including machine breaks, long delays etc.
- **Continuous optimization** and reaction to changes and unexpected events
- **Reports** on actual progress



Production Scheduler fits into your current ecosystem: constant and automatic info gathering to generate the optimal production schedule.

## Product Features

- Intuitive user interface
- Capacity driven plan
- Forward & Backward scheduling
- Critical resources consideration to minimize bottlenecks
- Validation of assigned tasks
- Assigned tasks displayed for each station
- Cloud based: access anytime, anywhere
- Planned vs. Actual view
- Customized schedule to reach your KPIs
- AI-based work order completion prediction
- Early detection alerts of tasks running late
- Validation replaces identification and alert
- Schedule is optimized and continuously re-optimized

The screenshot shows the "PRODUCTION SCHEDULER" interface for "TPO Composite Factory A". It features a "TASKS" table and a Gantt chart below it.

STATUS	PROJECT	WO	NAME	DUE DATE	TYPE	MATERIAL
Scheduled	FlatT	WO-BNWOFL-813	WO-BNWOFL-813-Bag...	05/02/2022	Bagging	
Scheduled	FlatT	WO-BNWOFL-813	WO-BNWOFL-813-Cut...	05/02/2022	Curing	

The Gantt chart below shows a timeline from 5:00 AM to 9:00 PM for Friday, 26/05. Resources listed include "Cut&KHZ", "LayupLeft", "Bagging", and "Autoclave". The chart displays task bars for various work orders, with some bars highlighted in green and others in red, indicating task status and timing.

**ABOUT PLATAINE:** Plataine is the leading provider of Industrial IoT and AI-based optimization solutions for advanced manufacturing. Plataine's solutions provide intelligent, connected Digital Assistants for production floor management and staff, empowering manufacturers to make optimized decisions in real-time, every time. Plataine's patent-protected technologies are used by leading manufacturers worldwide, including Airbus, GE, Renault F1® Team, Stelia North America, Muskogee Technology, IAI, Triumph, General Atomics, TPI Composites and Ethan Allen. For more information, visit: [www.plataine.com](http://www.plataine.com)