

Production Planning

Improve long-term planning and shop-floor control with our production planning solution—which works in concert with ToolsGroup **Service Optimizer 99+ (SO99+)**.

// Solution at a Glance

From long-term planning to shop-floor control and machine integration, ToolsGroup production planning software supports manufacturing companies to effectively govern their advanced production planning, scheduling and manufacturing execution. Our lean, flexible and interactive tool is designed to run real-time simulations and thoroughly analyse the results, following intuitive and streamlined workflows.

// Key Features and Benefits

- Increase service level and reliability of promised delivery time
- Reduce lead times, inventory and WIP levels
- Increase resource efficiency and reduce overall set-up time
- Increase productivity and reduce missing materials
- Reduce waste and non-value-added activities
- Enhance enterprise-wide collaboration and communication with suppliers

Production Planning: Long-term Planning to Shop-floor Control and Machine Integration

Planning production and manufacturing to serve the requirements of many different customers requires effective allocation of resources, materials, and production capacity. A good production plan optimizes both customer-dependent processes like on-time delivery and customer independent processes like production cycle time. With so many processes to balance and consider, ToolsGroup's production planning software helps companies optimize their production plans and minimize their production costs.

The backbone of our planning system is its in-memory processing algorithms, an essential feature in highly volatile and dynamic environments. Our modular approach provides maximum scalability and opportunity for tailor-made configuration, in order to suitably fit the application to your specific business context.



How ToolsGroup Production Planning Enhances Your Supply Chain Planning

/ Minimizing production cost: ToolsGroup's digital production planning solution enables rapid and insightful decisions with reference to sourcing, production sites and markets in an interconnected environment. We help managers continuously evaluate and re-assess strategic and operational decisions. Our solution rapidly simulates the optimized production plan in terms of total cost. We consider market demand, availability of constraining resources and cost drivers of the entire logistic and production network.

/ Planning finite capacity: Generate mono- and multi-plant Master Production Schedules and purchase plans in minutes, taking into account the specific production process and planning model.

/ Scheduling finite capacity: Calculate accurate optimized schedules in just minutes, considering production constraints (machines, labor, tools, materials, warehouses) as well as sequencing rules to optimize production and set-up. Alternative scenario simulations and an extremely user-friendly interface support effective and interactive analysis and let the planner graphically adjust and freeze the schedule.

/ Manufacturing execution system: Our Manufacturing Execution System (MES) collects production, process, quality and traceability data from the shop floor. A Web Panel interface and Industry 4.0 integration to your machines ensures real-time and complete control of all production events, availability of KPIs through innovative and standard BI tools. The innovative and easy-to-configure Web Panel interface is designed to smooth interaction with operators and to improve communication with subcontractors.



ToolsGroup Production Planning Capabilities

/ Extended production coverage: ToolsGroup’s production planning solution is a full-coverage modular tool. We cover everything from demand planning to manufacturing execution, machine integration and product traceability.

/ Advanced simulations: Our production planning solution makes it simple to create alternative scenarios and run “what-if” simulations. You can create scenarios in minutes and easily compare the results.

/ Interactive graphical interface: Our intuitive and easy to use interface provides interactive views for analysis and guides planners to directly adjust the schedules.

/ Fast response: Because we use in-memory processing technologies, our engines are extraordinary fast. Our in-memory algorithm can simulate multiple supply chain scenarios constrained by the finite capacity of production resources, assess changes in demand, and consider resource availability and cost drivers.

/ ERP integration: Our solution easily connects to your ERP system and shop-floor devices to acquire your production data.

Service Optimizer 99+ Platform for Service-Driven Planning

Download our brochure to see our entire Service Optimizer 99+ service-driven planning suite.

+	Demand Forecasting & Planning	Demand Sensing	Promotions Planning	Inventory Optimization
	Supply Planning & Optimization	Production & Capacity Planning	Allocation & Replenishment	S&OP

