

MANUFACTURING PLANNING

Factory Planner

Challenge: Synchronizing factory production plans and schedules

As customer demand changes, shop floor dynamics including manufacturing resource status and material availability can dynamically shift. Without the ability to quickly synchronize factory production plans and schedules, companies will be challenged to optimally meet these changes in demand. Planners and buyers must be enabled with the right solution in order to create efficient material plans that are aligned with factory schedules and that provide synchronized material flow through the factory. The right solution also ensures that plans are tailored to meet customer delivery requirements and other key operational and financial objectives critical to success.

Solution: JDA Factory Planner

JDA® Factory Planner is designed to provide intelligent decision support for production planning and scheduling functions. The solution helps develop optimized production plans for a single plant or multiple plants, departments, work cells or production lines by scheduling backward from the requirement date and forward from the current date, while simultaneously considering material, capacity and due date constraints. The solution streamlines and aligns the activities of production control, manufacturing and procurement planning teams by automating mundane tasks and shifting the focus to more important value-added activities. By using JDA Factory Planner, your planners and schedulers can intelligently improve manufacturing facility performance to meet business objectives such as enhancing due-date performance, reducing lead times, improving throughput and decreasing inventory and operating expenses.



◆ Key Benefits:

- Enables fast, advanced planning and scheduling
- Eliminates factory synchronization challenges by generating capacity and material plans simultaneously
- Automates production planning workflows and best practices across various industries
- Provides a highly scalable, extremely fast planning engine that generates plans and detailed schedules in real time, which is not possible with traditional enterprise resource planning (ERP) solutions
- Provides coexistence with ERP and manufacturing execution systems using industry-standard integration protocols

Key Benefits continues on next page >



The problem-oriented planning technique in JDA Factory Planner goes beyond simple constraint-based planning and exception-based reporting. Your planners are provided with a holistic view of your factory plans and comprehensive demand, supply and capacity key performance indicators (KPIs). Based on business priorities and feasibility, planners can concentrate on a specific area first and then drill down into the details to understand specific issues. JDA Factory Planner is designed to provide time-phased reporting on factory KPIs, which enables planners to take corrective measures for short-term and long-term planning.

Comprehensive support for both finite and infinite capacity planning

Unlike most planning systems, JDA Factory Planner considers both material and capacity constraints together, enabling your planners to generate high-quality plans through multiple planning options:

- Infinite capacity planning creates a plan with the ideal level of resource capacity needed to meet customer demand. JDA Factory Planner flags overloaded resources so users can take remedial action in order to meet delivery dates.
- Constraint-anchored optimization provides planners with a choice of automated load-balancing algorithms to create an optimal finite-capacity constrained plan based on various material flow and capacity utilization policies.
- Simultaneous capacity and material optimization introduces a new planning approach based on turnaround times, enforcing maximum utilization of critical resources by maintaining tight production cycle times and order-by-order planning.

Key Benefits continued

- Offers capable-to-promise delivery date quoting, simultaneously considering material and capacity constraints
- Provides deep and wide bill of material, alternate routings, routing distributions and routing attributes
- Provides alternate parts, use-up parts, phantom parts (kitting), attributed parts, subcontracted parts, sequence-dependent setups and split demand across alternate procurements
- Provides procurement plan and purchase order management, including expedite, de-expedite and cancel functions
- Offers a workflow-oriented user experience that helps planners accomplish complex tasks in a consistent and repeatable manner
- Provides a concise, consolidated view of material and capacity issues with drill-down capabilities into affected orders, problem parts and bottleneck workstations
- Provides the ability to create customizable views of production, inventory, costs, problems and explanations
- Offers a rich user interface providing summary views of the plans generated, along with synchronized material and capacity resolution workflows
- Provides a custom report wizard with grouping, summarization and filtering capabilities
- Provides integrated tools to fully automate planning, sequencing, incremental updates, interactive what-if scenarios and manual overrides
- Offers a wide variety of analysis tools that are continuously updated with real-time changes in the material or capacity plan
- Offers one-button export views to spreadsheets for even greater reporting flexibility
- Provides multiple levels of authorization definable by user
- Offers ability to compare the plan KPIs across different what-if scenarios



Real results

Companies that rely on JDA Factory Planner to synchronize production plans and schedules and to optimize production planning can realize significant benefits, including the following:

- Improved manufacturing efficiencies across the supply chain by institutionalizing a repeatable production planning process
- Reduced manufacturing cycle times, inventory levels and response times to customer demand
- Improved throughput and reduced waste due to planners coordinating production plans with material and capacity constraints
- Ability to quickly react to interruptions in execution with rapid response capability
- A lean and efficient enterprise driven by synchronized planning and execution

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