



### Factory Planning & Scheduling

# INCREASE Throughput

#### ADEXA GIVES YOU NEW INSIGHT AND CONTROL:

- Cost of goods sold
- Days in inventory
- Days sales outstanding
- Fixed asset utilization
- Revenue growth
- Plant utilization
- Overtime premium
- Manufacturing equipment utilization
- Finished goods lead time
- Cycle time by channel
- Direct material cost
- Customer turnover
- Burdened direct labor
- Order fill rate
- Order to invoice lead time

#### THE CHALLENGES YOU FACE

For manufacturers in “make-to-stock,” “build-to-order,” and “build-to-forecast” environments, it’s critical to properly allocate your limited equipment resource capacity. That means prioritizing work orders and sequencing the schedule for optimal throughput across the factory. And when changes arise -- such as rush orders, unplanned maintenance, or other disruptions -- you need automated solutions to recalibrate and re-synchronize the production flows.

Without a proper planning and scheduling solution, you face high WIP inventories, heavy overtime levels, idle labor, and bottlenecks across the factory floor. How can you reduce cycle times and lead times and keep the factory running smoothly? Adexa has the answer.

#### THE ADEXA SOLUTION FOR FACTORY PLANNING AND SCHEDULING

Adexa offers the industry’s best solution for creating constraint-based planning that optimizes your plant-level production plans and continuously synchronizes them with changing supply and demand factors. With Adexa, you can create a constraint-based detailed plan of operations that is fully aligned with customer demand, current plant conditions, and strategic business objectives.

Within the four walls of your plant, Adexa solutions for Factory Planning and Scheduling enable each of your sites to make their own decisions to optimize resource utilization, reduce manufacturing cycle times, allocate components, and improve other production processes. That means greater reliability and feasibility of production schedules -- even when supply and demand are uncertain.

Adexa helps you sequence jobs across all plant resources to meet your production requirements and stay in step when changes inevitably occur.

### THE ADEXA VALUE PROPOSITION

Adexa solutions for Factory Planning and Scheduling help you increase your throughput and lower your inventory levels by maximizing the use of your constrained resources. Driven by accurate and reliable plant scheduling, you can improve your on-time delivery performance and customer satisfaction by minimizing cycle times. What's more, you can lower inventory by optimizing work-in-process and improve equipment utilization through smart job sequencing.

- Improve manufacturing machinery utilization
- Synchronize WIP with demand to lower inventories
- Reduce use of overtime
- Re-route products for cost or availability optimization
- Optimize manufacturing utilization at the line/work center
- Minimize the impact of repair or maintenance work on production lines
- Automate detailed shop floor sequencing and dynamically resequence based on new information.
- Reduce change-over times
- Support proper manufacturing sequences for each product
- Identify and eliminate idle labor at some workstations and bottlenecks at other workstations
- Minimize the high cost of downtime from unplanned machine stoppages, unplanned overtime, and maintenance costs

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#### Adexa's Worldwide Locations

##### North America

Los Angeles, CA  
 Toronto, ON

##### Europe

Germany

##### Asia

Japan  
 South Korea  
 Taiwan

**Figure 1. Factory Planning and Scheduling**



Adexa delivers solutions that synchronize corporate planning with operations planning and execution on a local and enterprise level, to ensure all assets are utilized to achieve strategic objectives. This enables manufacturers to reduce the cost of goods sold, shorten lead-times for orders and reduce inventory costs with improved supply chain collaboration and management. Real Solutions...Measurable Results.

