

# Advanced Scheduling for Discrete Manufacturing Solutions

## Synchronize Your Shop Floor Resources

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To help you build the right jobs at the right time, you need to quickly schedule and sequence all the activities in your work centers so you can meet your due dates. Advanced Scheduling helps small and midsize engineer-to-order, make-to-order, make-to-stock and mixed-mode manufacturers like you meet your targeted delivery dates.

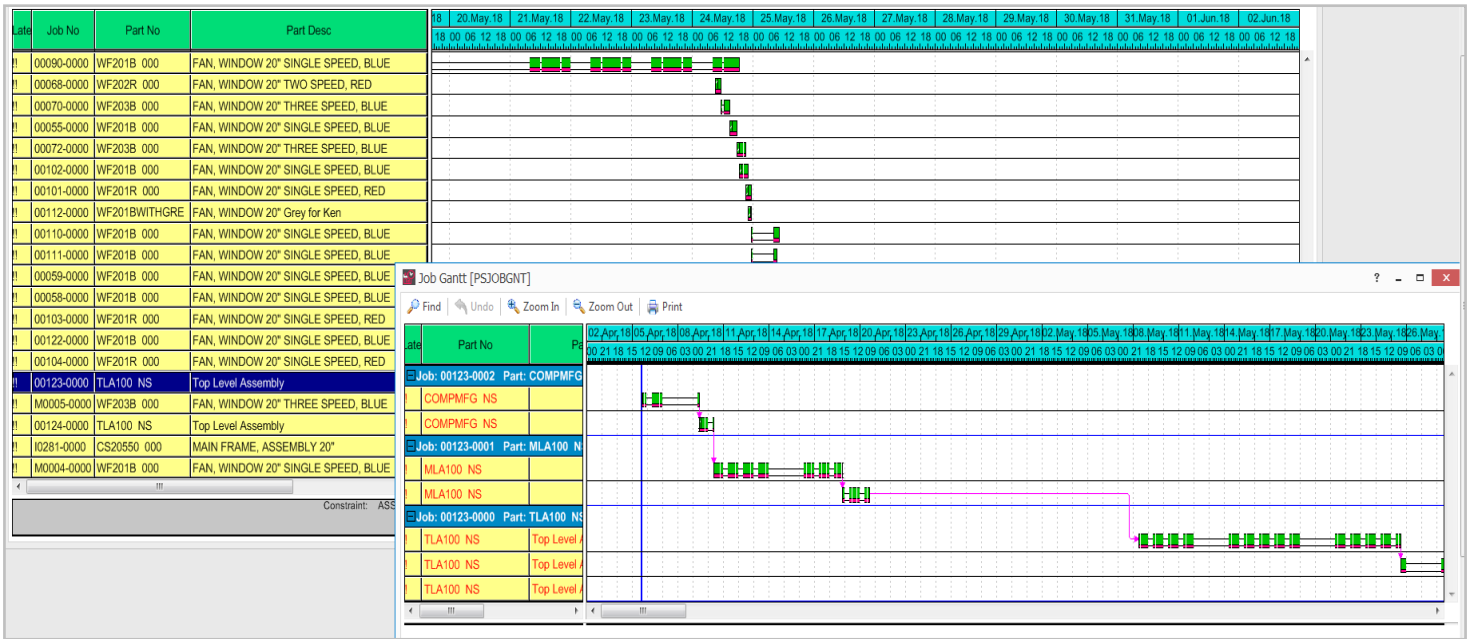
The highly automated Advanced Scheduling application shares a common real-time database with Aptean Discrete Manufacturing Solutions for superior coordination. As a result, it draws up-to-the-minute information from your ERP back office. In turn, purchasing, order entry and other ERP functions have real-time visibility over shop floor schedules and can be adjusted accordingly.

Advanced Scheduling combines Theory of Constraints methodology and powerful optimization technology to achieve maximum shop floor throughput. Using a drum-buffer-rope scheduling approach, Advanced Scheduling helps identify your shop's critically constrained resource, exploit that resource, buffer and protect it, and keep it running by subordinating other resource schedules to that bottleneck.

In addition, you have the option of constraining schedules based on additional resources in the bottleneck work center, any number of secondary work centers, and/or the availability of any kind of purchased material.

### Benefits

- Prioritize, sequence, and schedule job operations in one step across work centers within capacity and material constraints.
- Improve customer service levels, lower costs, minimize late jobs, and increase profits.
- Perform scheduling and rescheduling runs more quickly. Large scheduling runs can be performed in five minutes or less.
- Keep your entire organization in synch by sharing real-time information across a common ERP/SCM database.
- Maximize throughput by buffering constraints, assemblies, and shipping.



Advanced Scheduling features state-of-the-art scheduling algorithms, previously available only to the largest and most advanced manufacturers. Its memory-based processing provides superior performance while minimizing late jobs and maximizing throughput. You can also rely on Advanced Scheduling to help you determine precise need dates for purchase materials.

Your scheduling staff will enjoy the easy-to-use, drag-and-drop Gantt chart facility for viewing and editing schedules. The Gantt chart tools (i.e., Schedule Board) seamlessly link work center views with job order views and easily pegs individual job tasks to their related sales order or other top-level demand. You can edit by dragging and dropping, including moving tasks to alternate machines or work centers. Furthermore, scheduling and rescheduling runs can be completed rapidly - generally in five minutes or less.

## Learn More

To learn more, contact your Account Manager or email us at [info@aptean.com](mailto:info@aptean.com).



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