



smartAPS is a flexible production scheduling software that generates precise production schedules based on the operation, resource and capacity data configuration. It helps production planners with swift schedule calculations with changes in configuration on 'What -If' cases. smartAPS considers material constraints and production status of running jobs while calculating new job schedules. This allows to reschedule all the jobs in case of any changes that occur abruptly during production.

Built on the combination of powerful heuristic and optimization algorithms this tool deliver results with high accuracy and speed.

Target Industry

smartAPS focuses on Aviation & Defence, Food & Beverage, Electrical & Electronics Assembly, Automobile, Medical device manufacturing Industries.

Key Benefits

- Gain complete visibility into planning and production
- Increase revenues with reduced lead times
- Respond to changes quickly and efficiently
- Create accurate and realistic delivery schedules that creates better customer reliability
- Increase plant capacity with optimized utilization of manpower and machinery

Significant Features

- Support multiple operations in routing
- Support multiple machines with variable capacities, setup and tear back time in routing
- Multiple shift assignment with priorities to machines (top priority is considered as chosen one)
- Holidays consideration to machines
- Auto assign job order quantities to machines in operations based on the machine capacity
- Visual management of operations and machines in the Gantt charts
- Quick rescheduling based on the changes in resources
- Job order Gantt chart view with complete active job order schedules
- Machine Gantt chart view with active machine list grouped on Machine category
- Reports with Load chart based on job order, Machine and calendar dates
- Export to Excel data
- Real time integration with ERP's such as SAP , JDE, MS Dynamic, infor etc. for master and transactional data

Implementation Infrastructure

- Windows based PC, MS SQL Server for enterprise version and MySQL for standard editions
- Integration components based on ERP used.