Production Job Tracking Solution (PJTS)

Get complete visibility and control of your shop floor

It is important for manufacturers to perform real-time shop floor job tracking to monitor the progress of production orders as they are executed. PJTS, developed as an add-on to Microsoft Dynamics 365 for Finance and Operations, offers intelligent linking between sales order, production order, BOM, and routes including resources and resource groups that are required in the manufacturing process on a unified platform. With this solution, users get complete visibility and control of their production facility through tracking assistance and updates to key parameters of a job such as next operation, work center, labor hours, setup time, material and resources, and run time.

90%*
Improved Operational Visibility

50%*
Time Savings

65%*
Improved Decision Making

How Does It Work?

Once a production order is generated, a complete job-packet is created by PJTS, which consists of:

» Details related to the sales order, the production order, and the final item to be manufactured
» Route details (operations that include resources and resource groups; operations are displayed in the order of their execution)
» BOM details that include raw materials

Here, the BOM is mapped against route.

Users can update the job status and modify details related to the raw materials and operations, if required. Furthermore, they can track / update key parameters of a job. Validations are implemented such that once an item is consumed or time has elapsed, users can't update.

As users update the details related to the raw materials and operations, the changes made are reflected onto BOM and routes with the appropriate revision number. This is done to maintain a clean history of all the changes made with respect to a particular job. Users can even compare the versions of BOM and routes.

*The numbers provided are based on Synoptek's experience while implementing the solution for clients. They may vary as per the business process.

High-level Functionalities

Job status tracking and updating
Track the progress of each job in real-time, as and when executed. This involves tracking key parameters such as next operation, work center, labor hours, setup time, and run time, and then updating these components.

Raw material consumption
Quickly trace and update the details related to the raw materials consumed in each job.

Notes
Create notes related to any item or sales order and attach it in PJTS.

Production re-routing
Identify entities that are not functioning such as machine downtime, resource unavailability and so on, and re-route production accordingly.

PJTS reporting
Analyze the performance of a particular job using PJTS reporting; for instance, measure actual performance against standard performance to identify inefficiencies and optimize production.

Job listing
Easily select the job that is to be tracked or updated from the job list. Every job has a unique job-id; users can quickly search and filter the jobs based on the job-ids.

Route utilization
Easily monitor and update the details related to the route used in each job.

Status resetting
Reset the status of any job, if required (changes may have an impact in other modules).

Revision history and comparison
Maintain a clean history of BOM and routes by managing various versions of the changes made with respect to a particular job. Get more clarity on BOM usage and route details by comparing various versions.

Key Benefits

Better visibility in too perations with single screen to monitor and manage all the tasks within a specific job in a production order

Time savings with a significant decrease on job status meetings

Improved capacity planning with better understanding into the availability of raw materials and resources

Increased deal-close rate through optimized pricing

Reduced manual efforts with removal of paper-based processes

Improved decision making with in-depth insight into job shop scheduling

About Synoptek

Synoptek is a global systems integrator and managed IT services provider offering comprehensive IT management and consultancy services to organizations worldwide. Founded in 2001; headquartered in Irvine, CA, we have offices and resources across North America and delivery centers in Europe and India.