



Planvisage Product Case Study: **SUNDARAM FASTENERS Limited**

Quick Reference



Sundaram Fasteners Limited

Company Name

Sundaram Fasteners Ltd.

Manufacturing Industry

Fasteners, Radiator caps.

Revenue

Over USD 400 Million

Location HO

Chennai, India

Solution

Sundaram Fasteners limited selected Planvisage SCM solution to improve their supply chain visibility. One of the objectives was to find out expected capacity shortage and sequence the orders on the heat treatment based on priority and material availability.

Implementation Time

The solution was implemented in 12 weeks

Software Specs.

Windows 2008 server
IIS Webservice
Microsoft .Net Framework 4.0



About Planvisage

Planvisage is one of Asia's leading solution providers for manufacturing companies who face supply chain challenges.

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Client Overview – Sundaram Fasteners Ltd (SFL)

Sundaram Fasteners Limited has grown into a global leader, manufacturing critical, high precision components for the automotive, infrastructure, windmill and aviation sectors. Their varied range of products encompasses fasteners, powertrain components, sintered metal parts, iron powder, cold extruded parts, radiator caps and wind energy components. They have won the trust of both OEM and aftermarket customers in highly competitive markets like India, China, Germany, USA, UK, Italy, France and Brazil.

SCM Issues

SFL implemented SAP ERP system to handle all their transaction. But it was not able to handle constraint based production planning and scheduling. This lead to problems as below:

- Each plant had their own excel file to do planning. S&OP had to manually consolidate to get the expected dispatches.
- Plan prepared on day 1 of the month becomes redundant on day 5 because of changes in customer schedules
- Material requirement was checked manually before releasing the order to shop floor
- Not able to get expected material shortage so that corrective action can be taken before shortage happens
- No visibility to orders and hence dynamic batch creation for heat treatment was a nightmare
- Unable to get the expected load on each of the resource based on pending orders
- Unable to utilize the idle capacity of resources effectively
- No visibility to schedule the subcontractors

Planvisage Solution

Sundaram Fasteners selected Planvisage SCM solution to improve on order acceptance and adherence. The main objective was to prioritize orders, dynamic MOQ, improve resource utilization, reduce stock-out and delivery of SKU's to depots based on the safety levels.

Benefits

Sales Department got the following benefits

- Quicker S&OP planning and re-planning from 2 days to minutes

- Quick re-synchronizing to market and supplier dynamics
- Demand netting based on forecast, stock and orders in SKU and group level
- Provide visibility if order is getting delayed in advance
- Sales orders accepted by production got executed
- Realistic commitments were given to customers based on the capacity calculations
- Delivery adherence rate improved substantially

Purchase department got the following benefits

- Know production plan in advance for proper planning of raw material requirement
- Consolidated Coil requirement for the next 3 months

Production department got the following benefits

- Simultaneously consider Primary/alternate material and capacity constraints
- Production plan made flexible to alter based on customer requirement changes
- Forging plan is sequenced based on the dimension from higher to lower or lower to higher to optimize the setup time.
- Arriving at economical lot sizes for production to optimize stock
- Ability to re-plan in Weekly and Daily horizon for all the orders
- Shift-wise sub-contracting plan for the entire time horizon
- Proper batching and sequencing based on material property has reduced the no of set ups at Heat treatment.
- Heat treatment loading sequence is based on upstream constraints.
- Graphical view of schedules in a Gantt chart
- Graphical display of load on each resource
- Reduced number of stock outs as the visibility is established
- Better visibility to S&OP team on what is being produced and dispatched at the factory as all the plants are in common planning solution
- Resources waiting for material came down drastically as a result of proper planning
- Proper utilization of resources and sequencing resulted in better OEE
- Number of setups were reduced as a result of better sequencing
- FG Inventory came down as a result of better economical lot sizing
- WIP value came down as a result of better sequencing
- Assigning priority for the items which is available in the subcontractors.