



Case Study

Advance Production Planning for volatile demand product

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**Kaptiche enabled
SMART production
planning with real-time
data analysis improved
60% of Overall
production efficiency**

About the Client:

The Leather Manufacturing company based in North America with many production units capable of producing leather tote bags and exported their products all over Europe and Asia

Business Challenge:

On every production cycle, the company used to pre-plan their further new productions based on their planning and scheduling towards key actions like raw material procurement, sufficient inventories and their mechanical efficiencies.

Due to market demands and sudden changes in their new orders, the company couldn't able to proceed according to their pre-plans which leads them to run rigorous and continuous production on their last minute schedule.

The company's sales figures are not enough to predict their potential customers for future sales. Consequently, the company failed to update their pipeline with proper inventories. The company sometimes over-exceeds the actual demand & shortfalls in production due to lack of sales figures and volatile market demands.

The Manufacturer failed to settle in their logical decisions towards machine's performance & total labor efficiencies.

Kaptiche's Solution:

Kaptiche – an intelligent process automation based solution helped them to resolve their problems by providing various solutions discussed below:

- Kaptiche with business intelligence provides advance planning and scheduling plan which discuss about their total bag production count in quarter & proper time delivery schedule to supply chain units.
- Kaptiche helped their production floor management to calculate their available capacity for uninterrupted production in the floor.
- Kaptiche – AI based solution helped them to be active and alert in their management to know the differences arise between priorities and final production map.

Business benefits:

kaptiche with process automation facilitates intelligent manufacturing which helped them to track their entire inventories. With the help of accurate data, the operation team can be ready for any hindrance. The company usually orders and stores raw materials like chromium for tanning process, chemicals for crusting process, ammonia, hydrogen sulfide, solvent vapors, etc. At the time, the ordered goods will be received from the different vendors. Kaptiche – an intelligent data capture solution helped them to capture the respective invoices, and with its automatic data classification feature enables to classify & compare the invoices to verify with respective purchase orders and also ensures them to identify the goods missing accounts.

Sometimes, the company needs excess volume of raw materials for some chemical process which leads to inadequate raw material situation. Kaptiche with advance machine learning capability help them to estimate their total inventory volume and facilitate them to maintain their inventory related data system with updated material availability information.

The company needs to capture information regarding total productivity of resources used and their downtime. At every individual floor machine setup, Kaptiche fixed iPads or

cameras to record the HMI data. HMI generally provides information like time duration of soaking process, liming, unhairing, and de-liming. Kaptiche captured these data to provide overall operating time by comparing the captured metric data & time with expected processing time. And also it helped them to measure total speed losses occurred in process.

Business benefits:

- Kaptiche helps them to predict whether they utilized the complete capability of equipment's associated with demand forecasts.
- Kaptiche with process automation keeps them with updated raw material requirement information. So that, the firm can able to order adequate amount and no need to order excess amount which nearly saved them thousands of dollars.
- Kaptiche helped them to identify the bags deficit and their demands. With that, the company can able to produce bags according to the requirements with respect to current trends, which makes sure them to be standardized position in their business level.
- Kaptiche enabled SMART production planning with real-time data analysis and improved Overall production efficiency.
- Kaptiche used to predict the number of resources to be needed to manufacture bags according to the vendor requirements and company can able to know which resource is used to do, from whom we get false numbers and all during production.

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