

Aldica Case Study

Aldica Technologies Pvt Ltd. has a registration Office in Bangalore and a manufacturing facility in Jamshedpur, Jharkhand. Specializing in the production of cast aluminum alloy parts and accessories for automobiles and motorcycles such as hydraulic bodies, air cylinders, cylinder heads, flanges, etc. from aluminum alloy ingots.

Aldica is a supplier to ZF Commercial Vehicles Controls System Pvt Ltd, a German-based company, delivering products to four different locations: Jamshedpur, Lucknow, Chennai (Ambattur), and Chennai (Mahendra World City). Additionally, Aldica performs the machining process for Grab Handles (Front Face) for Shah Hitech, Vardhaman, and other customers.

Challenges

Inventory Management :

With a diverse range of products, tracking inventory levels, raw materials, and finished goods was a big challenge and this was leading to inaccurate procurement & production planning.

Production Operations:

Managing the 4 different furnace operations individually to ensure that its operating at 100% capacity was a big challenge as things were done manually using excel. This was resulting in in-efficient usage of the furnaces which was contributing to down-time.

Quality control:

Performing quality inspections at various stages and recording the information manually (Visual & diametric measurements) and then entering into the system for analysis was taking more time & possibilities of errors.

Die-loading plan:

Creating die-loading plan based on weekly delivery schedule & after taking into consideration the on-going production was cumbersome. This resulted in suboptimal machine utilization and making it hard to identify inefficiencies and make data-driven decisions.

Solution

Enhanced Production Planning and Management:

The Manufacturing module of CREST offered comprehensive functionality to create detailed machine-wise production plans and die-planning for specific timeframes. This enhancement improved machine efficiency, streamlined manufacturing planning, facilitated better procurement planning, and enabled effective die-management.

Die life cycle:

As Aldica had many dies, monitoring the lifecycle of dies is very critical as it has a direct impact on the product quality. Currently this is a manual exercise to understand the Qty produced using each die which was increasing the risk of down-time & production loss.

Sub-contracting:

As the Semi-finished goods need to be moved to sub-contractors for processing, keeping track of the material which has gone out and the material which has come in after processing was done manually and it was a cumbersome process.

Understanding Production Costs:

Manual processes, fragmented data, and lack of real-time updates from various work centers and sub-contracting costs make it challenging to accurately determine the cost of production (Finished Goods Costing). Hours or days are spent manually calculating costs, with uncertainty over the reliability of these figures.

Die life-cycle management:

CREST's integrated Fixed Asset management system, which records machines and dies, provided precise control over the quantity of finished goods produced. Additionally, it generated die-utilization reports, enhancing control over the die life-cycle and resulting in fewer rejections and less downtime.



Automated Sub-Contracting Process:

The production routing task in CREST tracks the sub-contracting process, automatically creating sub-contracting orders during production plan creation. This feature records items moving in and out against sub-contracting orders, while also automatically calculating sub-contracting costs based on receipts. This streamlined process improves inventory tracking accuracy and ensures precise costing of finished goods.

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About Xmplar

Xmplar offers CREST-ERP - an integrated ERP suite on the cloud - that supports practically every important business process. Founded in 2013, we are a young company, with a young team. Our technical and functional members have a good background in business management systems.

CREST solutions can be deployed on both public and private cloud environments. We have customers in India, the Middle East, Africa, and the USA from the manufacturing and Trading & Distribution domains