



Lakshmi Machine Works

# How NS Envision™ helped to drive success in Operational Technologies

Lakshmi Machine Works (LMW)

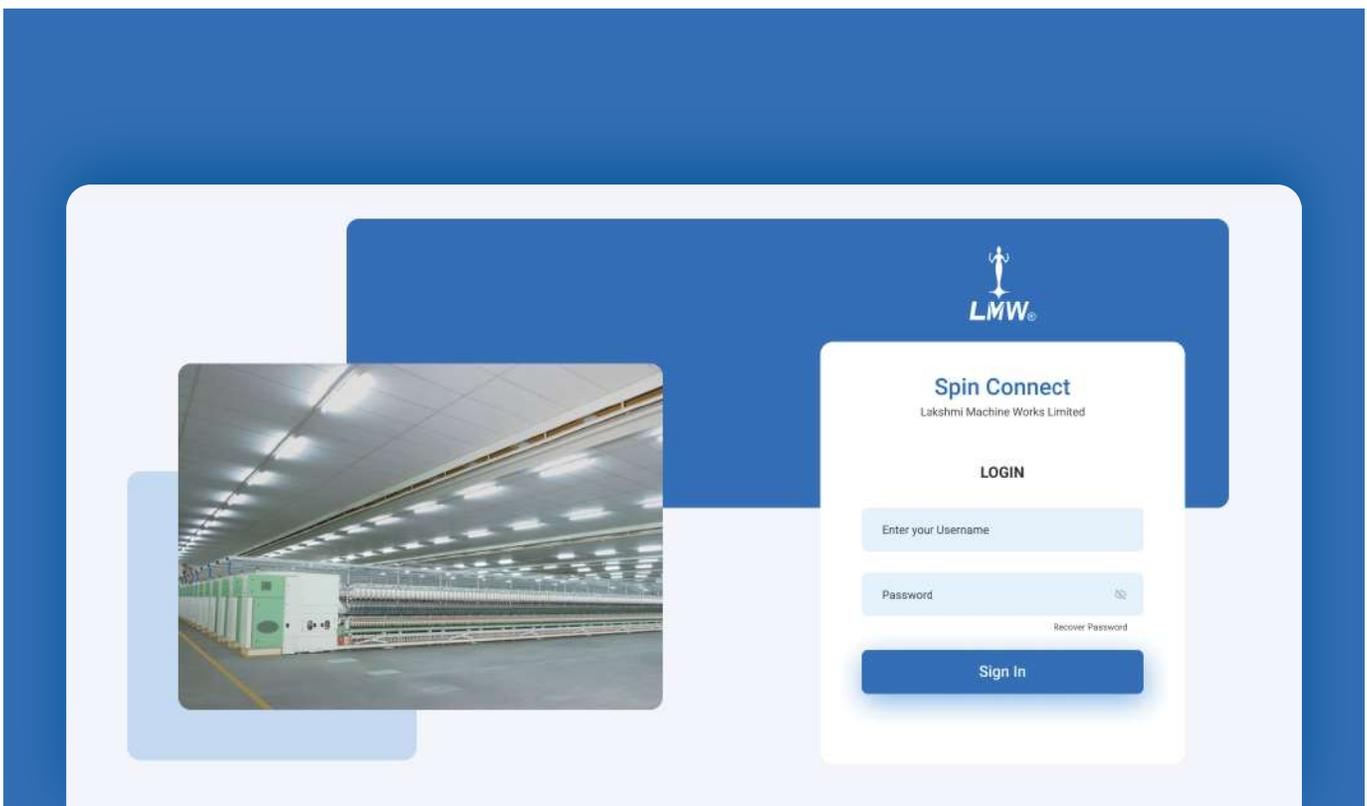


**UX Design Case Study**

# Industrial IoT portal Design for LMW

**Lakshmi Machine Works**, a leading Textile Machinery Manufacturer in India, is one of the three in the world to produce the entire range of Spinning Machinery. In 1962, the LMW, was established to provide Indian textile mills with the latest Spinning Technology. It caters to the domestic market and exports products to the Asian and Oceanic regions.

LMW diversified into CNC Machine Tools and is a brand leader in manufacturing customized products. LMW Foundry makes Precision Castings for industries over the world. LMW has added the Advanced Technology Centre to manufacture components for the Aerospace Industry.



## Kick-off Workshop

During this workshop, we discussed the challenges of client's, listed them out, and considered all of them during the re-designing of the web application.

In the re-designed application, we provide intuitive and informative designs which cover crucial information with modern KPIs and include new screens such as Utility management, Material Tracking, etc.



## Challenges

Spin Connect Edge is a textile industry management application that follows a domain-centric approach, where the end-user requires training to operate it. The presentation and categorizing of data were not appropriate, because of which it was necessary to streamline machine efficiency collected through the KPIs in a centralized station.

## Solutions

As a UI UX Designer, we have implemented design thinking principles and proposed an intuitive design. We have implemented the Drilldown approach with which the end-users will obtain crucial parameters in their respective dashboard. It helps the users visualize and articulate the performance of plants from a holistic point of view, i.e., from plant to unit, unit to device, and device to a specific parameter which helps LMW identify the gaps. Now with the current UI Spin Connect Edge can generate the reports and details of the product KPIs within a few mouse clicks without any training.

## Benefits

1. Increase in Productivity - with fewer clicks
2. Ease of use - As the design is intuitive and self-explanatory
3. Drill down approach - Drill down design provide LMW to analyse the KPI's to holistic to specific
4. Accessibility - Production KPI's are accessible everywhere, anywhere, with any device.
5. Utilization and Wastage information with the drill-down approach.
6. The KPIs in the dashboard can be configured based on user preferences.



## Stories

The **LMW** and **NSP** had multiple joint sessions and also a collaboration with other departments as a result we understand there is a need of considering the UX feedback and repossession of the product with new architecture and ease of Use User interface.

NSP has implemented design thinking and has come up with User Interface, which is role-based. It provides different KPIs as per the user preference in their respective dashboard which is drilled down where users can articulate and analyze the performance of the plant anywhere and everywhere with any handled device.

