

# Powering a Digital Solution to Monitor and Manage a MedTech Leader's Manufacturing Facilities across 150 locations globally.

## Client Overview

The client is an American multinational medical technologies corporation based in Michigan. They develop implants, surgical equipment, navigation systems, and other medical device products in various medical specialties.

## Client Objectives

The client was looking to enable integrated plant visibility across legacy and disparate data sources such as ERP, MES, SCADA, etc., from a single system for decision-making on operations across the plant, product, and people hierarchies.

In this journey, 4 plants were selected for development of the system and pilot implementation/testing of the system before a global rollout. The business challenges that had to be addressed were as follows -

- Multiple manufacturing sites with distinct ERPs, MES, SCADA, machine systems
- No standardized metrics and KPI calculations across the organization
- Manual and time-consuming reporting
- No shop floor to top floor visibility to management across sites

## Solution & Implementation

- Proposed and developed a Business Intelligence platform, **YASH Boards**, for Shop floor to Top floor visibility and alignment and to support periodic reporting of strategic metrics for manufacturing KPIs related to Safety, Quality, Cost, Delivery, etc.
- Enabled decision-making to the leadership across People, Plants, and Product hierarchies with better visibility
- Provided the Single source of Truth for all leadership reporting needs and decision making
- Following business benefits are envisaged through the system designed and developed
- Easy accessibility of information for daily production management processes
- Drive standardization of measures, reporting, and daily process optimization
- Less time spent on data collection and analysis, allowing more time to drive improvements
- Data analysis for faster decision-making with aligned data cascaded through tiers
- Eliminate manual data crunching and data errors and automate regular reports
- Enable decommissioning of legacy reporting technologies currently used for plant reporting

## Outcomes

The client realized benefits that included:

- Better accessibility to the production data management process resulted in
- 21% increase in Work-In-Progress Inventory Value
- 43% reduction in scrap volume and
- 5% improvement in RFT (Right First Time)
- Factory staff productivity increased by approx. 14% with aligned data cascaded through tiers
- Automated real-time data reporting and visualization resulted in an 18% improvement in machine OEE (Overall Equipment Effectiveness)

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