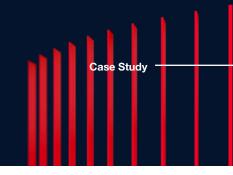
# Off-Road Division of Leading Tire Manufacturer in Asia



## Digitalization of Manufacturing Systems

# Challenge

- Absence of a digital solution to address traceability and excess material consumption.
- Lack of real-time visualization of KPIs from each step within the subprocess.
- Low RFT and lack of accurate data reporting and planning platform to manage production.

#### Solution

- Implemented a Digital Shop Floor solution to trace the movement of materials in real time.
- Deployed a customized connected shop floor solution to capture user inputs through HMIs and scanners.
- The solution captured key elements around planned vs. actual losses, raw material weight addition, quality and process parameters, along with labor deployed.
- · Integrated the user input data with the sensors and PLC signals, enabling accurate process genealogy.
- Operator Assistance Screens and reports specifically designed from user perspective to be leveraged by shop floor operators to make informed decisions about day-to-day operations and schedules.

### > Outcomes

- Improved RFT (Right First Time) by 20% using end-to-end traceability and analytics.
- · Reduced excess material consumption by up to 60% with real-time alarms and control.
- Enhanced OEE by 10% and workforce productivity through actionable recommendations.
- Enabled monitoring of utility costs with real-time monitoring of steam, nitrogen, and electricity use.



© Hitachi Digital Services LLC 2024. All Rights Reserved. HITACHI and Lumada are trademarks or registered trademarks of Hitachi, Ltd. All other trademarks, service marks and company names are properties of their respective owners HDS-CBE-FL-Material-Informatics-Solutions-10Apr24-B