TATA

Case Study | CEIT

PROVIDING FOUR LEVELS OF TRACEABILITY WITH ONE SOLUTION

THE CUSTOMER PARTNERED WITH TATA TECHNOLOGIES FOR A TRACK AND TRACEABILITY SOLUTION TO CAPTURE THEIR COMPLETE PRODUCTION HISTORY.

THE CHALLENGE

Suffering from a lack of traceability, which caused product rejections from original equipment manufacturers (OEMs), the client sought a manufacturing execution systems (MES) implementation partner to help overcome this challenge and more. Project goals were to:

- Reduce after-sales quality issues.

- Improve the quality of the vendor management process.

- Provide unit-level traceability of bearings from the raw material supplier through to finished goods.

- Better utilize existing resources.

- Gain analysis capabilities.

THE COMPANY

A leading bearing manufacturer, with an international footprint, who manufactures more than 150 million bearings annually in more than 1,000 different sizes. Headquartered in India, the organization is also the flagship company of a global conglomerate.

THE SOLUTION

Scope

- Required interfacing with Rockwell Automation® programmable logic controllers (PLCs) at the line level.

- Encompassed more than 20 touchpoints on the shop floor, including 10 barcode printers and 16 barcode scanners to establish traceability.

- Required integration with SAP® for material master, batch production and finished goods invoice data.

- Included traceability covering supply chain, approximately 100 vendors, raw material inward, internal/external operations and finished goods.

Deliverables

- Provided supplier-end traceability at the batch level for a batch size ranging from 1,500-40,000 components and capturing information pertaining to raw material-supplied/bought-out parts like balls, cages, grease, etc.

- A traceability solution (the first of its kind for the bearing industry in India) that captured the complete production history for five different product types with more than 20 variants.

THE RESULT

Improved root cause analysis for batch quarantine

Provided unit-level traceability

Provided MIS reporting for better usability, resource utilization and analysis

Improved quality of vendor process

ABOUT US

Tata Technologies is a global engineering and product development IT services company that is focused on fulfilling its mission of helping the world drive, fly, build and farm by enabling manufacturing companies across the automotive, aerospace and industrial heavy machinery verticals realize better products and drive efficiencies in their businesses. There are two components to our value proposition – managing and delivering outsourced engineering services and products for our manufacturing clients, and helping them identify and deploy technologies that are used to conceptualize, design, validate, build, test, benchmark and realize better products. For more information, visit **www.tatatechnologies.com**.

Engineering a *better world*.