

Improving Internal Efficiencies

Bajaj Automotive Ltd (BAL) deployed Rasilant's RFID applications to derive open-ended solutions and enhance processes with walk-through technology

The Bajaj Group is among the top 10 business houses in India and is spread over a wide range of industries, spanning automobiles, home appliances, lighting, iron and steel, insurance, travel, and finance. The group's flagship company, Bajaj Automotive Ltd (BAL), which is ranked fourth among the largest automobile manufacturers around the world, ran into a major roadblock in terms of incompetent time management for inspection operations and complete lack of real-time status data. BAL required a solution that could meet its challenges and help to sync processes to its brand personality. BAL turned to the expertise of Rasilant Technologies Pvt. Ltd—a global RFID technology consulting, services and solutions organisation based in Mumbai. With Rasilant's intervention, BAL was able to bridge this gap in information, and thus enhance operational efficiencies.

Recognising the Business Need

Bajaj Automotive Ltd (BAL) is the fast-growth business manufacturing unit of the Bajaj Group. BAL was facing a number of challenges in its operations, as most processes were being carried out manually, greatly increasing the operational time requirements for logistics and inventory management. This, in turn, led to inefficient synchronisation

At a Glance

Company: Bajaj Auto Ltd, India

Type of Business: Automobile

Location: Chakan, Pune

Vendor: Rasilant Technologies Pvt. Ltd

Benefits of RFID Solution:

- Significant reduction in time taken for goods receipt
- Lesser time for production
- Fast, efficient access to up-to-date information
- Better integrity between BAL and vendor data
- Investment recovered within six months

between vendors' and BAL's data.

The primary cause of high turnaround time was the painstaking manual inspection of all goods coming into BAL premises. This was leading to bottle necks building up at the BAL gate, especially during peak hours. And hence, for Rasilant, this was the main issue that needed to be resolved. This problem kept repeating, as the stamping of authorisation receipts at the BAL gate was being done manually. The manual management, comprising the identification, verification and authentication of materials entering the unit was directly contributing to incompetency in the cycle-count time.

Further, manual receipts were in themselves an effective solution for a company whose operations were as expansive as those of BAL.

Combined with the additional time taken, this practice resulted in negligible availability of real time status data about the material, which was essential to ensure smooth co-ordination between vendor and client. The lack of a state-of-the-art facility, which could be synchronised with BAL's brand personality, also needed to be tackled in order to improve efficiency.

A Rasilant Solution

With its strong background in developing RFID technology solutions, Rasilant set to work developing a smart, effective, cost-effective as well as user-friendly solution. In order to resolve the major issue of high turn around times caused due to bottlenecks at the BAL gates, all vendor vehicles were fitted with RFID tags that



contained information about the vendor and the material inside the vehicle. Boom barriers were installed at the entry and exit gates, which automatically and instantly opened on successfully reading the RFID tag on a passing vehicle. The trolleys carrying the material were also enabled with RFID tags, for easy availability of data describing the type of material. An automated receipt was generated when the desired material reached the assembly point.

BAL Benefits

The applications provided by Rasilant, through meticulous research and a planned integrated approach to technology, resulted in measurable results in terms of the successful delivery of end-to-end RFID solutions. Rasilant's solution considerably reduced the time taken for delivering goods receipts. This decreased the time required for production cycles and increased efficiency in accessing up-to-date information, thus ensuring better integrity between BAL and vendor data. Investment recovery periods were reduced to less than six months. Rasilant successfully provided BAL with an open-ended solution and improved efficiency with its walk-through technology.

Conclusion

Several companies around the globe are deploying RFID solutions in order to bring in greater efficiency in internal operations and improved process data integration. BAL has also considerably improved its production process and its real-time data integration through the RFID solutions provided by Rasilant. Going forward, this will help to boost BAL's productivity as well as process intelligence. 

Source: Rasilant Technologies Pvt. Ltd