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Scalable IoT data collection helps drive manufacturing for a maker of drivetrains

“We achieved our initial targets: together with the Deloitte Team we integrated our SAP®-based MES with the production machineries and we certificated them according to the Industry 4.0 guidelines. Thinking about the future, we defined a digitalization roadmap that includes several future projects based on the SAP® Leonardo IoT platform such as big data analytics, statistical process control (SPC), conditions-based and predictive maintenance, and energy management”

—Nicola Crotti, IT Director, Bondioli & Pavesi

QUICK STATS

- Production companies: 12
- Clients: 8,000
- Countries served: 80

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THE ISSUE

Power transmission manufacturer Bondioli & Pavesi aimed for a complete digital integration of machines, lines, and 13 separate plants to increase productivity, reduce process inefficiencies, and gain an economic edge.

THE SOLUTION

Bondioli & Pavesi combined the physical and the digital to collect machine status and energy consumption from several types of production machines in a unique platform that can natively communicate with the ERP system. Developed with help from ABO Data, now part of Deloitte, the platform provides the company’s proprietary MES with the data it needs to improve operations, quality, and maintenance.

SAP technologies leveraged

- SAP Leonardo IoT
- SAP Cloud Platform
- SAP ECC
- SAP Fiori®

THE IMPACT



SAP Leonardo capabilities have allowed Bondioli & Pavesi to acquire data, including energy consumption, from different machines, standardize data in the cloud, and make it persistently available at factory sites



Analytics automatically calculate equipment effectiveness, driving predictive maintenance decisions and empowering a statistical process control (SPC)-ready solution



The solution is highly scalable, both in terms of number of machines connected and machine types



Production information is available in the cloud, to provide full visibility across multiple plants

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