Project of digitalization and improvement of the logistics system in the production site.

The project provides for the intervention in the logistics area through the installation of an automated storage system (automated warehouses) and the implementation of software equipment in order to innovate the materials management process at the beginning and the end of production process.

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TRASCAR: DIGITIZATION AND EFFICIENCY IMPROVEMENT PROJECT OF THE PRODUCTION PLANT'S LOGISTICS SYSTEM

The company has initiated a gradual digitization process with the goal of transforming the entire unit into a Smart Factory. The project involves upgrading the logistics area through the installation of an automated storage system (automated warehouses) and the implementation of software tools to innovate the material management process both upstream and downstream of the production process.

The project was realized with the purchase of 2 Modula Lift model ML75D vertical automated warehouses. The commissioning of the new logistics department necessitated the interfacing of the Modula software with the management IT infrastructure.

The software upgrade required a concurrent hardware technology upgrade to handle a larger data load and to enable use by the logistics, operational, and administrative department managers, each according to their own competencies and needs.

The anticipated objectives have been fully achieved with the commissioning of a new and more efficient logistics department equipped with state-of-the-art systems for the storage of materials and components, specifically:

- Automation of all picking and storage operations with real-time inventory updates;
- Monitoring of potential stock-out situations and sending alerts for reordering;
- Information on component locations and dynamic updating of positioning based on usage history to optimize picking operations with minimal energy expenditure;
- Real-time inventory status;
- Definition of picking and handling histories;
- Capability to generate statistics useful for future planning and setting business strategies.