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Application Report >> Industrial Positioning Systems >> ARATEC® – The Positioning Solution System

Faster and More Accurate Positioning

Bosch modernizes several industrial vehicles with PSI Technics' ARATEC® Positioning Solution System.

The Challenge

Modernization and optimization of five stacker cranes and three shuttle cars:

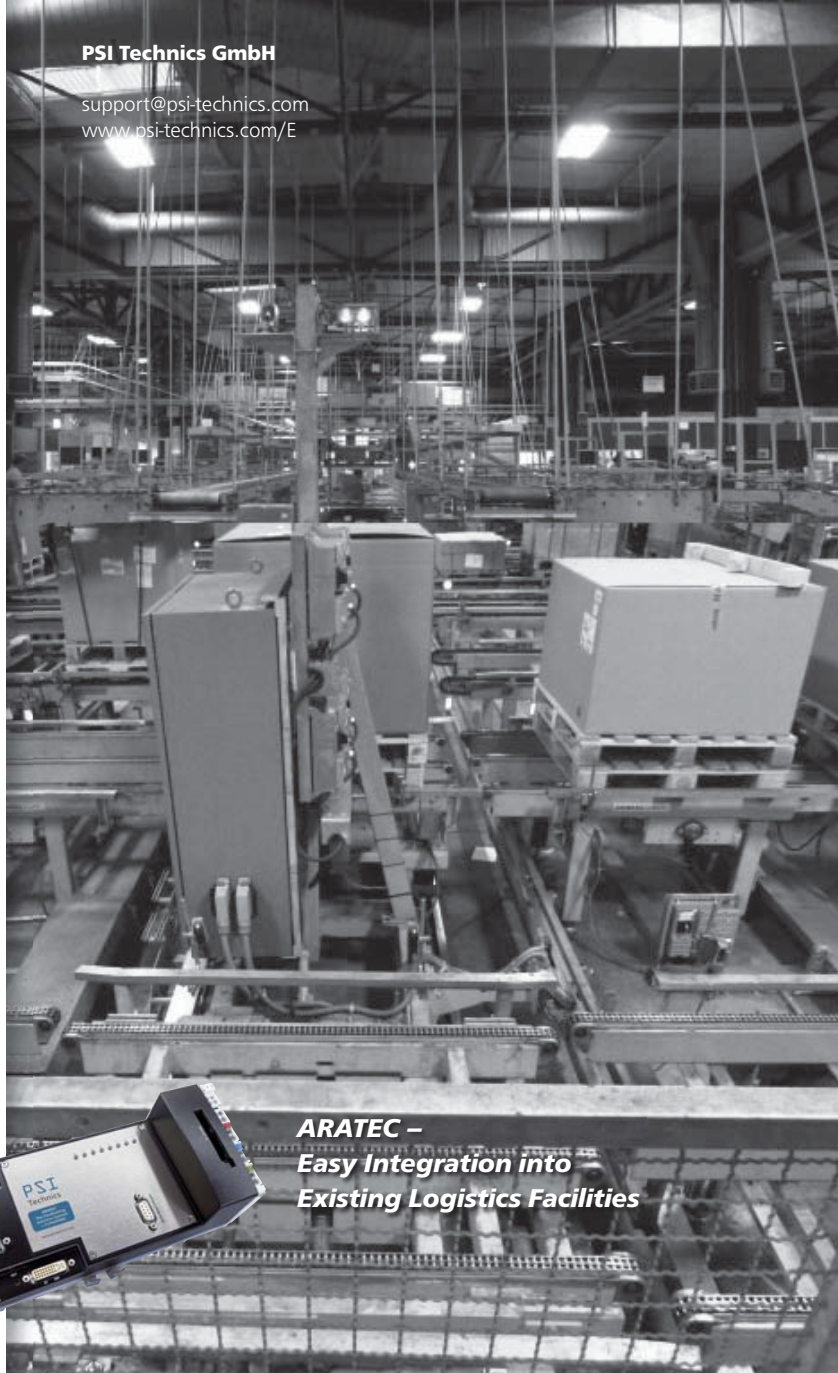
The ARATEC® intelligent positioning solution is the market-leading retrofitting solution for the now-obsolete Trimble ICS5000L positioning devices and provides optimization in terms of energy consumption, reduced wear, more accurate storage and retrieval and increased throughput.

Project Requirements

- >> Integration of the new positioning solution into the existing hardware with minimum downtime
- >> Prevent costly retrofitting
- >> Highly reliable system
- >> Low maintenance
- >> Long-term availability of spare parts

The Solution

- >> Installation of the ARATEC® Positioning Solution System
- >> Increased machine availability
- >> Eliminated creeping speed
- >> Optimized travel profile
- >> Minimized downtime
- >> Fast and easy integration into existing installations
- >> PSI Technics provided technical planning and implementation
- >> The installation and adjustment of the shuttle car positioning systems was completed within half a day for each shuttle car. The modernization of a single stacker crane was completed within one day.



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**ARATEC –
Easy Integration into
Existing Logistics Facilities**



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Project Brief

Description

Positioning system modernization and optimization of five stacker cranes and three shuttle cars that are used for the storage and retrieval of car spare parts

The ARATEC® controller includes all relevant interfaces for connecting the positioning system to IT-systems, process computers or PLC's as well as scalable I/O modules that enable the direct connection of laser distance meters, incremental encoders or bar code readers. One ARATEC® controls up to three axes.

Customer

Robert Bosch GmbH, Karlsruhe, Germany

Industry

Automotive Aftermarket

Scope

- >> Modernization of existing ICS5000L units and commissioning of the ARATEC® Positioning Solution System
- >> Integration of the ARATEC® Positioning Solution System into the existing logistics infrastructure while retaining the drives and communication protocols
- >> Laser distance meters
- >> Modbus RTU communication protocol

Project Duration

One day per stacker crane,
half a day per shuttle car.

PSI Technics is your reliable partner for intelligent and efficient solutions that improve productivity and quality in a variety of fields, such as factory automation, retrofitting/modernizations, industrial positioning systems, industrial image processing, thermal protection of sensors as well as R&D for energy efficiency and energy management.



Thomas Knebel, Maintenance Planner, Automotive Aftermarket:

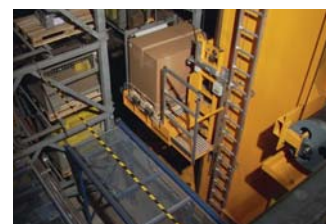
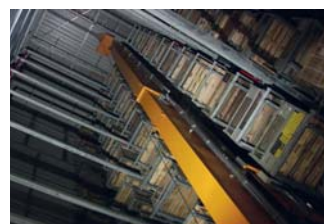
„PSI Technics' staff is highly qualified and responsive. Due to the system's integration flexibility, we were able to modernize three shuttle cars in the shortest possible time without having to change any system components or drives. The modernization of each shuttle car didn't take longer than half a day.

Apart from the easy installation, we were so impressed with the increased efficiency of the new system that we already ordered ten additional ARATEC® systems that are not only going to replace older systems but will also be used for new installations.“

Shuttle cars in the client's European central warehouse for automobile spare parts.



Thanks to ARATEC® stacker cranes at Bosch are now faster and more precise.



ARATEC® – Registered in U.S. Patent and Trademark Office
Pictures courtesy of: PSI Technics, Robert Bosch GmbH

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