

YOU ARE CURRENTLY SEARCHING FOR INNOVATIONS FOR YOUR WAREHOUSE? LET US HELP YOU!



RHENUS WAREHOUSE INNOVATIONS. YOUR PARTNER FOR INTERLOGISTIC SOLUTIONS.

Rhenus is shaping the future of logistics together with our customers and employees. Our goal is the identification and implementation of useful innovations over the long term. Autonomous-high-reach forklifts and robot-supported storage based on big data are the fields we are currently focusing on.

Our warehouses are evolving through the use of newly implemented and developed innovations. We offer specific know-how and are able to adapt implemented and existing solutions according to the requirements and needs of our customers.







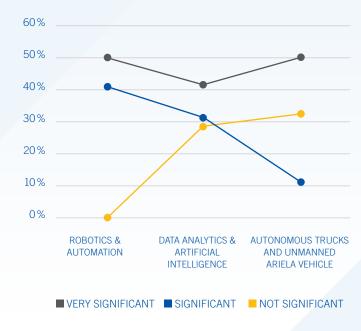
RHENUS WAREHOUSING INNOVATIONS

Since the material flow of production is controlled directly or at least indirectly via intralogistics, the demands on availability and productivity are particularly high. Therefore, the demand for the automation of various technologies and the inclusion of innovations are increasing. The results of a survey on the importance of logistic trends and the significance of innovation are given here:

SURVEY OF LOGISTIC TRENDS

THE SIGNIFICANCE OF TECHNOLOGIES

The companies surveyed stated that autonomous vehicles, robotics and automation are just as important as innovations in data analytics and artificial intelligence. Robotics and automation ultimately reveal the greatest potential for future innovations.



 $Source: Statista, Megatrends - Logistik branche \ https://de.statista.com/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/studie/980502/umfrage/megatrends-in-der-logistik-in-deutschland/statistik/daten/st$

RHENUS CORESPONDING INNOVATIONS

FIELDS OF TECHNOLOGIES

137
INNOVATIONS

RACKING/SHELVING/STORING
PICKING

// PALLET STRAPPING/WRAPPING // PACKING

TRUCK AND CONTAINER
FORSTKRAFT & BATTERIES

// LOADING/UNLOADING // INTERNAL TRANSPORT & CONVEOY SYSTEMS

// WORK SAFETY // PALLETIZIG/LOAD HANDLING

// WAREHOUSE (BUILDING // CLEANING

// DIGITALISATION // INVENTORY

// BIG DATA AND SOFTWARE // RETURNS

56 SUCCESSFULLY IMPLEMENTED

RHENUS WAREHOUSING INNOVATIONS











AUTOMATED ANALYTICS OF MANUAL PROCESSES, WHICH REDUCE EFFORT AND COSTS, CAN SAVE TIME AND COLLECT DATA FROM MULTIPLE SOURCES IN PARALLEL.

AUTONOMOUS VEHICLES

AUTONOMOUS VEHICLES USING SENSORS AND REFLECTORS TO NAVIGATE THROUGH THE WAREHOUSE AND TO WORK IN MIXED OPERATIONS HUMANS/MACHINES.



ROBOTICS, WHICH ARE EASY TO PROGRAM WITH COLLABORATIVE AND RELIABLE SOLUTIONS CAN BE USED TO AUTOMATE A LOT OF DIFFERENT PROCESSES.

MECHANIZATION

USE OF MACHINES, WHOLLY OR IN PART, TO RELIEVE WORKLOAD OF WORKERS.

We believe learning about new technologies is key to be successful in the future. We therefore want to be at the forefront of the latest technological developments in the areas of robotics, big data, digitalization, autonomous vehicles, etc... Rhenus implements only innovations which add value to our clients' value chain and improve the satisfaction at work for our employees

Andreas Plikat, General Manager Warehousing Solutions



CLEANFIX ROBOT AUTONOMOUS CLEANING

Our autonomous cleaning robot helps to keep the cleanliness in the warehouse and reduces further efforts. Its long working time encourages an efficient and frictionless work flow.

- REDUCTION OF CLEANING COSTS
- **FULL REPORT OF THE** (UN)CLEANED AREAS

// INVENTAIRY X AUTONOMOUS FLYING DRONE

The autonomous flying drone comes with different scanners for e.g. barcodes, temperature or humidity. It is possible to control the drone via a tablet. The temperature is easy adjustable for a customized service.

- MULTISENSORS, NO INFRASTRUCTURE IS NEEDED
- POSSIBLE SCAN OF TWO PARALELL STANDING SHELVES AT THE SAME TIME





AUTOSTOREDYNAMIC STORAGE

This innovation is a dynamic storage solution which provides storage space for all goods. The form and size of the grid is matched with the warehouse, to enable the transport of the plastic bins inside the grid.

- // MULTI-FLOOR INSTALLATION POSSIBLE
- CONTINOUS LOADING OF THE PORTS WITH NEW BINS

MOTION MININGPROCESS OPTIMAZATION

The Motion Mining solution supports the logistic processes inside the warehouse through different analyses: the data of mobile sensors or small Bluetooth beacons is collected while employees are wearing special wristbands or belts.

- OPTIMAZATION OF WORK PROCESSES
- ANONYMIZED COLLECTED DATA





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