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

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.
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.


![Graph showing the significance of technologies]

**RHENUS CORRESPONDING INNOVATIONS**

**FIELDS OF TECHNOLOGIES**

- Racking/Shelving/Storing
- Pallet Strapping/Wrapping
- Truck and Container
- Loading/Unloading
- Work Safety
- Warehouse (Building)
- Digitalisation
- Big Data and Software
- Picking
- Packing
- Forstkraft & Batteries
- Internal Transport & Conveyo Systems
- Palletizing/Load Handling
- Cleaning
- Inventory
- Returns

Over 137 Innovations

56 Successfully Implemented
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
AUTOSTORE
DYNAMIC 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

CONTINUOUS LOADING OF THE PORTS WITH NEW BINS

MOTION MINING
PROCESS OPTIMIZATION

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.

OPTIMIZATION OF WORK PROCESSES

ANONYMIZED COLLECTED DATA