

■ STOROJET NEXT LEVEL STORAGE

Optimised space utilisation of the warehouse in height, area and geometry with a drastically increased picking performance and a comparatively low outlay and operating costs - this is **STOROJET - Next Level Storage**.

Years of research and extensive testing has resulted in an automated storage and picking performance system, Made in Germany, which will take you to a whole new level when it comes to cost-effectiveness and flexibility.

The extremely flexible and modular shelving system connects multiple levels via elevators and enables small autonomous, energy efficient storage robots to bring goods carriers to ports. In addition to an optimised space utilisation up to 12 m height, an unrivaled low-cost decrease in picking times between 30 and 80 %, can be achieved.

■ HIGHLIGHTS

- A massive reduction of picking times of between 30 and 80 %.
- Optimised space utilisation in height, area and geometry
- Flexible expandability and adaptability during ongoing operations
- Individual product carriers with a width of 50 cm and a length of 50 – 90 cm
- Energy-saving system with low operating costs
- Improved theft protection and documentation
- Simple operation, low training expenditure
- Pick-By-Light support for order pickers
- Simplified storage of new products or returns
- Continuous optimisation of storage areas
- Transport of heterogeneous goods
- High process reliability of the storage locations
- Prepared for inventory at the touch of a button, continuous inventory
- Inexpensive implementation - Made in Germany
- Ready for industry 4.0

With **STOROJET**, flexibility and cost-efficiency go hand in hand offering you unimaginable possibilities at an affordable price and all this Made in Germany. For a tailor-made offer, get in touch with your personal **ICO Innovative Computer GmbH** contact now.

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Made in Germany



STOROJET
NEXT LEVEL STORAGE



INNOVATIVE COMPUTER
IT-COMPETENCE SINCE 1982

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REFERENCE

modellbau **härtele**

Wir brechen Maßstäbe!

Overview of data

- Height: 5.85 m (plus 1 m for the lifts)
- Levels: 12 (clearance 430 mm)
- Footprint: 727 m²
- Floor space: 8.720 m²
- Highspeed lifts: 6
- Robots: 130

Goods carriers

- 500 x 700 mm (B x T): 4.400
- 500 x 900 mm (B x T): 3.400
- 12 customized storage compartments

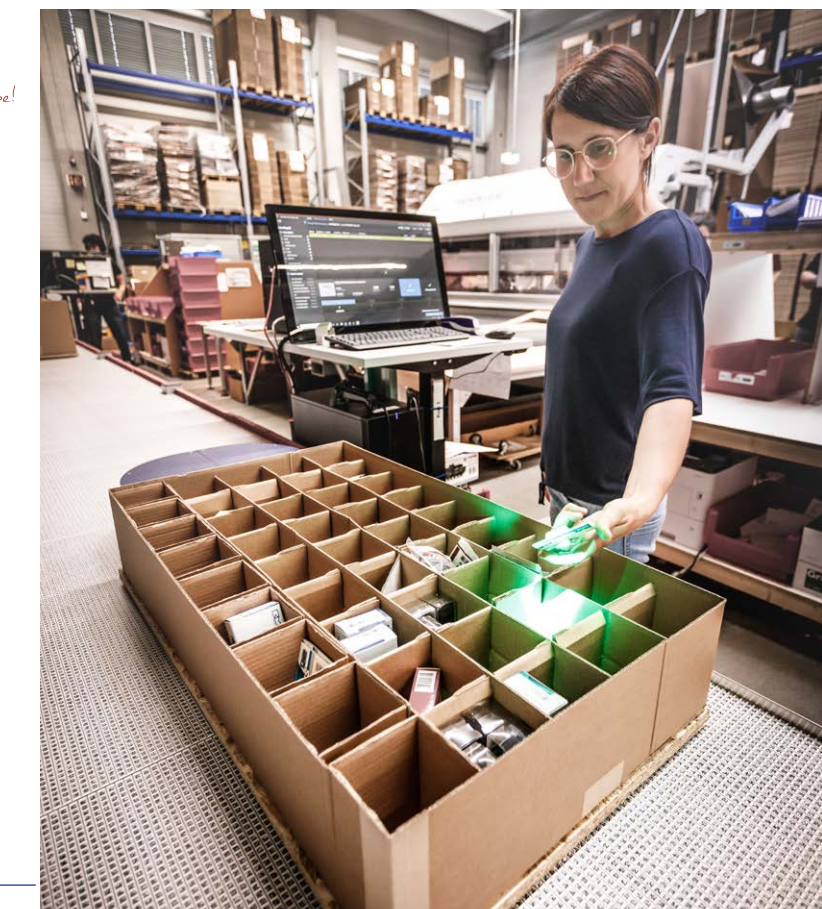
Workplaces

- Ports for storage and retrieval: 5

Output

- Daily operating time: up to 11 hours
- Approx. Picks – Day | Hour: 7.920 | 720
- At max level 11 sec for each product carrier presentation

■ storojet.com/references ■



REDUCTION OF PICKING TIMES

The increased picking performance, of between 30 and 80%, is easily achieved by the automatic storage robots through their sheer number. Even before the current picking list appears on the picker monitor, multiple robots are set in motion in order to maintain an uninterrupted flow of goods-to-people.



TAYLOR-MADE PORTS

The ports, as well as the entire shelving system, can be individually adapted to the needs of the customers. In addition to simple, directly adjacent ports, it is also possible to equip them, for the order picker, with ergonomic loops in a U-shape or a complex branched shape leading through the warehouse to the logistically well-placed ports. The ports can be used for both storage and retrieval.

ENERGY-SAVING SYSTEM

Thanks to the latest technology and a perfectly balanced ratio between weight and tensile load, **STOROJET** stands for low operating costs and maximum cost-efficiency.



FULL AUTOMATION FOR THE PRODUCTION

At the picking station, the goods carriers impress with another pioneering feature. They are completely accessible from above and therefore offer the best conditions for an upgrade to manipulators or lifting equipment.

SIMPLIFIED STORAGE

The storage of new products or returns in the shelving system can either take place before the start of a shift, parallel to the current order picking or overnight.

READY FOR INDUSTRY 4.0

Simple interfaces allow rapid integration into existing technology. With **STOROJET**, the benefits of digitising logistics can be used immediately.

THEFT PROTECTION AND DOCUMENTATION

Thanks to the fixed picking stations it is possible with very little efforts, to install video surveillance of the output points and, in addition to improved documentation, increased theft protection can be directly integrated. Depending on the value of the stored goods, the shelf system can also be completely clad in any material.

TECHNOLOGY MADE IN GERMANY AT AN AFFORDABLE PRICE

From purchase, continual expansion and right up to the minimal operating costs, the **STOROJET** automatic storage and picking system is unparalleled in its affordability. With **STOROJET** there is an inseparable symbiosis of flexibility and economy which offers you unimagined possibilities at an affordable price and all this Made in Germany.

Made in Germany

EFFICIENT LIFTS

The individual levels of the automated shelving system are connected via fast elevators allowing the small picking robots to quickly switch between levels.

PICK-BY-LIGHT

The Pick-By-Light illumination unit highlights the goods to be removed, on the relative shelf of the product carrier system, with a beam of light allowing them to be removed quickly. In addition to simplified handling, the error rate is reduced, at the same time, to an absolute minimum.



ADAPTABLE IN AREA, HEIGHT AND GEOMETRY

The up to 12m high shelving system can be flexibly designed based on the surface areas of the shelves (1.6 x 1.2 m). Whether a simple cuboid, a U- or T-shape or impressive customised special designs, there are no limits. The various levels of the shelving system can be adjusted in height, from 32 cm to 100 cm, depending on the stored products.



OPTIMISATION OF STORAGE SPACES

Depending on the customer's request, the **STOROJET** storage robots can autonomously implement an ongoing optimisation of the storage space and are able to proactively deal with seasonal peaks of certain product groups. Also, in respect of planned sales and marketing campaigns, the products in question can be stored before the actual promotion period, in such way to achieve the shortest possible access times.

FLEXIBLE EXPANDABLE AND CUSTOMISABLE

Due to the modularity of the **STOROJET** system, the area of the shelves, the number of goods carriers and robots can be extended at any time even during operation.

STOROJET R070 ROBOT

The robots are not rail-bound and can move freely, guiding themselves on the navigation shelf boards via coding and are coordinated wirelessly by the central system. The robots are the size of a home robotic lawnmower but are far more powerful and achieve a considerable transport volume.

- Size: 40 x 275 x 15 cm (W x D x H)
- Weight: 15 kg
- Operating temperature: 10 °C - 40 °C
- Maximum tensile load: 27 kg
- Battery: LiFePo4
- Charging time: 3 h
- Duration of use: 8 h per battery charge
- Communication: Wi-Fi (IEEE 802.11 a/b/g, 2.4 GHz)
- Navigation: Fully automatic based on ground markings, coordinated by the central system

INDIVIDUAL GOODS CARRIERS

The goods carriers, each with a width of 50 cm and a length of 50-90 cm, are stowed closely together and can be customised according to the customer's requirements. From simple storage areas, cardboard boxes with individual compartments all the way to specialised solutions, everything is possible.

- Load capacity: 20 kg
- Structure: Individually based on the size of the footprint
- Multiple sizes for each system enable a big flexibility while storing a max variety of goods



PREPARED FOR THE INVENTORY AT THE TOUCH OF A BUTTON

The inventory is started at the touch of a button and is, once again, supported by Pick-By-Light. Not only is there a noticeable reduction of the time required but also, seen over the whole year, the high process reliability of the system is particularly marked.

