

Kraftwerks Newsletter

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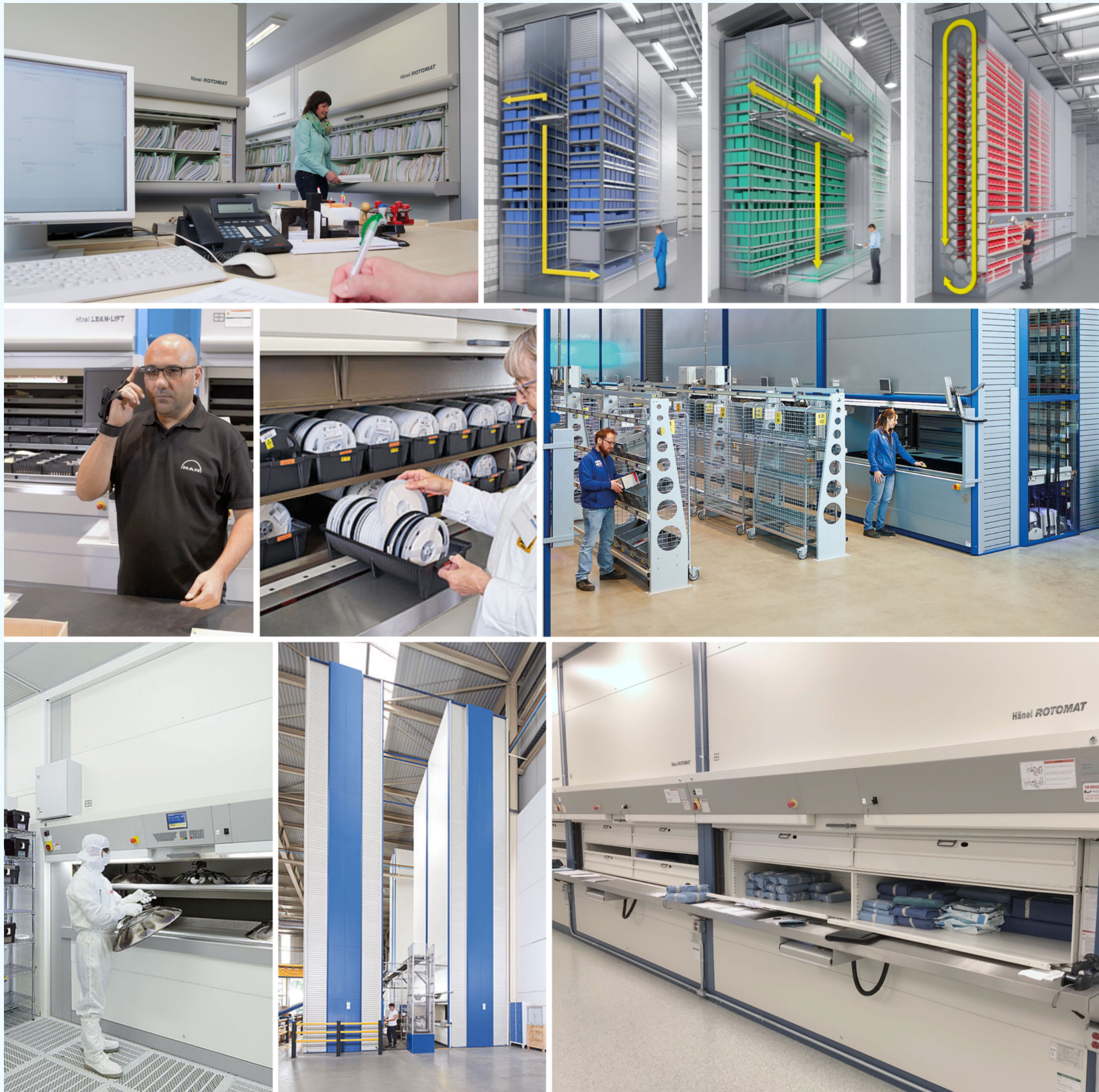
Store More in Less Space with High Density Storage – it's Smart

High density storage stows vast amounts of items in the smallest amount of space. This is accomplished through the utilization of unused vertical space and the elimination of aisles.

High density storage also creates an ergonomic environment that eliminates non-value movements.



Kraftwerks Vertical Storage Solutions Video



Use the Space Above

Vertical high density storage applications use open vertical space to increase storage. You won't need a ladder or a lift to reach items at the top though, because the items will come to you... delivered at just the right height. These storage applications smartly embrace the "goods to man" philosophy instead of requiring the reverse.

Vertical storage retrieval system (VSRS) units are built with ergonomics in mind. And when equipment is built for ergonomic use, that means workflow is improved, employees are more comfortable, and injuries are reduced.

Units can occupy space on a single floor or span multiple floors with multiple retrieval points, connecting departments and streamlining workflow.

There are several different types of units, here are a few common ones.

- Vertical carousel – carriers attached to chain drive move up and down Ferris wheel style
- Vertical lift module – carriers in columns in front of and behind extractor move up and down (may also move left to right); stores dynamically, adjusting to inventory automatically

Applications use complex, intelligent technology systems that can:

- Manage storage locations, articles, tools, stocks, pick and put jobs and orders;
- Offer direct integration into many ERP systems via SOAP protocol; and
- Offer complete warehouse management solutions (including high speed receiving, order fulfillment and shipping).

A multitude of other technology enhancement options are available:

EcoMode®
EcoDrive®
Pick-o-Light®
Augmented reality

Expanded Safety Bypass (ESB)
Fire Protection
Picture Control
High speed generation

Systems are versatile, able to handle a high volume of lightweight inventory and small parts to very large, heavy items. And for specialized storage environments they can control climate, maintaining temperatures from warm to extreme cold (down to -80°C/-112°F in cold boxes), as well as anti-static environments for ESD storage.

VSRS applications are a very smart and effective way to store and track massive volumes of inventory of all types, and they are suitable for virtually every industry in some capacity.

| | | | |
|---|---|-------------------------|---------------------|
| Administration/ government agencies | Energy technology | Laundry | Plastics industry |
| Apparatus engineering | Experiences of small and medium-sized enterprises | Logistics | Printing |
| Automotive | Food industry | Mechanical engineering | Rental service |
| Aviation/aerospace | Furniture industry | Medical technology | Retail/wholesale |
| Banks | Heating/plumbing | Metal industry | Sealing technology |
| Building materials industry | Hospitals/clinics | Metalworking | Sports & Recreation |
| Car dealerships | Industrial valves | Metrology | Textile industry |
| Construction and agricultural machinery | Injection molding | Oil and gas industry | Toolmaking |
| Distribution center | Insurance | Paper industry | Toy industry |
| Electrical engineering | Internet shop/ mailorder retailing | Pharmaceutical industry | Transport |
| Electronics | Laboratory technology | Pharmacies | Workshops |



Eliminate Wasted Space Between Shelves

Utilizing vertical space is one way to find more storage space, but vertical space may not be available. You can also increase storage space by reducing the number of aisles you have in between shelving by installing mobile aisle storage.

It works by attaching shelving sections to rails or tracks installed on or within the floor. The shelving sections glide along the tracks or rails using a single, 'mobile' aisle and eliminating the need for multiple aisles.

Shelves are moved either manually or mechanically in a smooth and easy manner and a single aisle 'moves' between shelving sections simply by turning a crank or pushing a button to move the shelving sections together.

Features:

- Secure
- Solid steel driveshafts
- Mechanical types use one-touch controls
- Aisle locks prevent movement of carriages while in use
- Easy-to-adjust mechanicals
- Non-grout, grout, or recessed tracking to fit space and existing flooring
- Easily expanded with additional sections
- Customizable to accept shelving from multiple manufacturers

Read our case study below on Stueben Foods. In that application, the team at Kraftwerks incorporated mobile aisle shelving, customized to accommodate storage of super-concentrated food flavorings in a laboratory setting.

Another high density storage option to consider is the rotary action filing system. It has shelves that rotate 360 degrees and are accessible from both sides. Shelves can be configured in the front and back of each unit, effectively doubling storage space the same footprint.

Case Studies

Steuben R&D Lab

Children's Hospital

University of Rochester HH

The team at Kraftwerks has installed many vertical and mobile aisle high density storage applications in various environments. Contact us to learn more about these reliable, efficient and surprisingly cost effective solutions.

Be sure to browse our resources section at the end of this newsletter, which has informative videos on VSRS and mobile aisle storage applications.

Additional Resources

Kraftwerks & Vertical Storage

Kraftwerks & Mobile Aisle Storage

Hänel Multi-Floor Video

Hänel Distribution/ Pick n Pack Video

Hänel Climate Control Video

Datum HD Mobile Track Video

Datum HD Powered Mobile Track Video

Datum HD Rotary Action Video



Contact Us:
kraftwerks@kraftwerks.net
716.876.9000 --- 1.800.387.5397

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Kraftwerks, Inc.
92 Cooper Ave
Tonaawanda, New York 14150
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