



# Hänel Storage Systems

## Cutting costs in the hospital budget!



Hänel **LEAN-LIFT**

Ideas that move the world...



# The operating principle of Hänel storage systems

## Hänel Rotomat® principle

The principle is simple. Its applications are brilliant!

Each Hänel Rotomat® is designed according to the tried-and-tested Ferris wheel model (vertical carousel principle) which means: goods to user and not user to goods.

**This saves time!**

The compact construction enables up to 60% more storage capacity to be created on a minimal footprint by making use of the available room height.

**This saves costs!**



## Hänel Lean-Lift® principle

The Hänel Lean-Lift® is both storage rationalization and goods protection in one: At the center of the 'cabinet' is a computer-controlled positioning lift – called the 'extractor'.

In front of it and behind it are the storage shelves. This is where the articles are kept in containers. The storage locations are accessed automatically under electronic control by means of the extractor, which stores or retrieves the requested container.

The operator works comfortably in the ergonomically positioned retrieval area.



# Real-life applications

**Example 1:  
Surgery / Pathology**



04/05

**Example 2:  
Central pharmacy**



06/07

**Example 3:  
Administration / Radiology**



08/09

**Example 4:  
Laundry**



10/11

**Example 5:  
Temperature-controlled,  
air-conditioned storage**



12/13

**Example 6:  
Maintenance**



14/15

# Example 1: Surgery/Pathology

**The task defines the fittings:  
Hänel storage systems offer  
tailored interiors for the most  
varied of individual requirements**

The Hänel storage systems offer maximum efficiency in the retrieval of surgical instruments and equipment in the central sterilization room of a clinic.

Here a Hänel Rotomat® holds thousands of individual items in a clearly arranged, protected environment – so the right instruments are always ready for retrieval even in emergencies!

In many clinics, pathology compounds are stored in Hänel storage systems where they can be quickly accessed for examinations.

## The pluses

- ▶ Huge space savings
- ▶ Simple operation, short storage and retrieval times
- ▶ All items are protected during storage
- ▶ High economic efficiency and cost savings

**Protected storage of pathology specimens  
in the Hänel Rotomat®**





Hänel ROTOMAT

# Example 2: Central pharmacy

Hänel ROTOMAT



**Drugs stored in the Hänel Rotomat® and Hänel Lean-Lift® in the central pharmacy. The advantage: Continuous inventory update with short storage and retrieval times**

Hänel storage systems are ideal for the administration and storage of the required medicines in the central pharmacy.

The HänelSoft control software manages the entire pharmacy and controls the Hänel storage units. Direct connection to the in-house IT system ensures a continuous exchange of data.

### The pluses

- ▶ Over 60 % more space than with conventional storage methods
- ▶ Work times slashed thanks to quick and easy operation
- ▶ Constant overview of inventory status
- ▶ Better organization of drug dispensing
- ▶ Protection and safety of the stored drugs





## Safe and secure retrieval with the Hänel Lockomat®

Whether it's for the central pharmacy of a hospital, or the decentralized storage of drugs – the Hänel Lockomat® ensures optimal security

All retrievals are logged and can be traced to the respective users. Drug categories can be assigned to different individuals and only requested by these people.

Only the drugs selected by barcode or storage number can be withdrawn. The other compartment doors of the Hänel Lockomat® remain magnetically locked.





# Example 3: Administration/Radiology

**Rationalization – cost-cutting – efficiency:  
Today's administration has to meet all these  
demands!**

**The Hänel Rotomat® is the  
ideal storage system for  
patient and personnel files  
as well as X-ray records  
and radiology films!**

With the automated Hänel Rotomat® filing system, the time spent on daily administrative tasks can be reduced significantly. Faster retrieval of requested files and documents makes workflow more efficient.

X-ray records, for example, can be archived in an orderly and protected environment.

To organize the documents, you can use the Hänel file management function directly at the microprocessor control unit. And of course you can integrate the Hänel Rotomat® into your corporate network.

## The pluses

- ▶ Short storage and retrieval times – resulting in huge time savings
- ▶ Twice as much storage capacity on the same footprint – resulting in up to 60 % more space
- ▶ Interface to IT workstations
- ▶ Protection from dust and unauthorized access

Hänel offers the right interior fittings for every need, enabling the storage of

- vertical hanging folders
- lateral hanging folders
- vertical standing folders
- ring binders
- data carriers, microfilm, etc.

Our technical advisors would be happy to show you other filing options.



# Example 4: Laundry

**In the pharmacy, in office organization or as an 'automated linen closet' – the Hänel Rotomat® does the job!**

Hänel's vertical carousels can also optimize workflow in the laundry. They enable towels, bed linen and clothing, for example, to be put into long-term or temporary storage in an efficient, space-saving manner.

The new high-speed version of the Hänel Rotomat® is the ideal system for sorting laundry and clothing quickly and making it available instantly using a barcode scanner.

## The pluses

- ▶ Efficient workflow, resulting in time savings
- ▶ Protection of freshly ironed laundry
- ▶ Quick and automatic retrieval of the requested items



This Rotomat® system has one access point at the front and one at the back. The ironed laundry is stowed away at the back and taken out as needed from the front.



Hänel *ROTOMAT*

# Example 5: Cost-efficient storage at controlled temperatures

Hänel's product range includes future-oriented solutions for storage in air-controlled environments in the form of the CleanStore and ClimateStore® systems.

The Hänel **ClimateStore**® technology allows Hänel storage units to be used either as cold stores or as heated storage systems.

This makes Hänel systems ideal for storing medical and pharmaceutical products.

## The pluses

- ▶ Space-saving storage in a temperature-controlled environment
- ▶ Optimum use of floor space while ensuring constant temperatures
- ▶ High economic efficiency and cost savings
- ▶ Can be used in different temperature ranges depending on the device type:
  - Rotomat® from -40° to +140° F
  - Lean-Lift® from 32° to +140° F
- ▶ Reliable temperature constancy to  $\pm 33.8^\circ$  F
- ▶ Recording of measured values with data loggers optional

The Hänel **CleanStore Rotomat**® is the ideal solution for low-particle storage in clean-rooms.

Storage of contamination-sensitive products up to clean-room class 5 according to DIN EN ISO 14644-1 is possible.



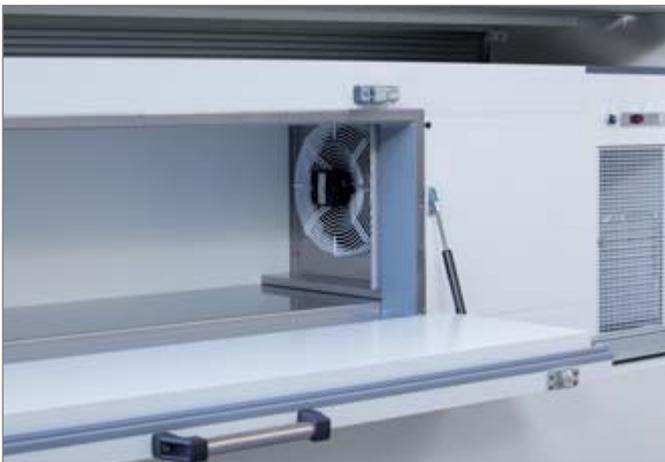
# Storage down to $-112^{\circ}\text{F}$

Now Hänel is offering another option for storage at extremely low temperatures, down to  $-112^{\circ}\text{F}$ . For this purpose, Hänel storage containers with the electrification function are used.

These enable cold boxes to be put into storage and supplied with power while in the lift, ensuring constant cooling of the stored items.

The size of the access point on the Lean-Lift<sup>®</sup> is adapted to the respective refrigeration system in such cases. So operators can still benefit from Hänel's renowned ergonomic design.

This system is suitable for the storage of stocks of donated blood, for example.



Depending on the application, cold boxes of different sizes and cooling capacities can be stored in the Hänel Lean-Lift<sup>®</sup>

# Example 6: Maintenance

## Orderly storage of small parts and tools with the Hänel Rotomat®

Spare parts and tools are stored in containers, protected from dirt and damage. The requested containers are brought automatically to the retrieval area.

Hänel offers a range of inserts and dividers for its carriers to make the job easier. Plastic boxes of varied dimensions, for example, can be stored in the Hänel Rotomat®.

### The pluses

- ▶ Making maximum use of the available space
- ▶ Protection of inventory from dirt, damage and unauthorized access
- ▶ Compartment dividers, bins, drawers or loose goods – the possibilities are endless
- ▶ Long lifecycle and high load-bearing capacity. Up to 1,653 lbs per carrier



# Hänel control technology for the perfect storage management

## MP 0 N

The new MP 0 N control system is designed as a single-lift controller for the Hänel Rotomat® with one retrieval point. The high-resolution TFT display can handle virtually any language and show lift run graphics.

The user-friendly menu structure for information and system services makes it easy to work efficiently. An interface for the connection of peripheral devices is also integrated. The controller can be also actuated via an external PC.

The Hänel EcoLoad® system for energy-efficient loading of the Hänel Rotomat® is already integrated in the MP 0 N controller as an option. The load status is depicted graphically on the display.

Storage locations are pinpointed by compartment LEDs, and sub-level indicators are also possible if required.



MP 0 N with multi-line information display and easy-to-follow operator prompts

## The Hänel MP 12 N controller One control system – four storage strategies

Whether you use the Hänel storage systems as stand-alone solutions with integrated inventory management or want to integrate the control units into a higher-level ERP system – the top controller MP 12 N from Hänel has everything already built in.

There are four different operating modes available, so you can choose the right one for your storage management.



### MP 12 N-StandAlone

This has the complete storage management package integrated, so no additional PC is required. The Ethernet interface makes hook-up to your IT environment easy.

A web server is also available so that the storage data can be displayed on the intranet.

### MP 12 N-HostWeb

Storage management is performed in the higher-level host system. An integrated web browser displays any required web page on the control unit via the HTML interface.

The web applications are operated via touchscreen on the control units.

### MP 12 N-HostData

The control system for quick and easy connection of our storage devices to the customer's ERP system. This version offers a file interface for storage and retrieval orders (pick lists) or individual data records.

Data conversion is handled in the control system. The exchange of data is automatic and time-controlled. Route-optimized processing of orders is possible across multiple Hänel storage systems.

### MP 12 N-HostCom

In this mode also, storage management is performed in the higher-level host system, and the lifts are controlled via the user interface of the external storage management software.

For storage and retrieval, a drive command is sent to the lift controller by the storage management software. Communication takes place via TCP/IP.

## Hänel

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# Economic efficiency: Intralogistic solutions of Hänel!

We would like the Hänel consultant to arrange a meeting with us:  
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and ask for \_\_\_\_\_  
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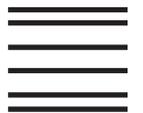
- Hänel's Rotomat® office carousels
- Hänel's Rotomat® industrial storage carousels
- Hänel's Lockomat®
- Hänel's Lean-Lifts®
- Hänel's Multi-Space®
- The Intelligent Hänel Control and Software Technology

**Hänel solutions:**

- Automated storage in air-controlled environments
- The pharmacy as a distribution center
- Boost your efficiency with the Hänel Lean-Lift®

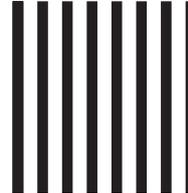
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Subject to revision



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