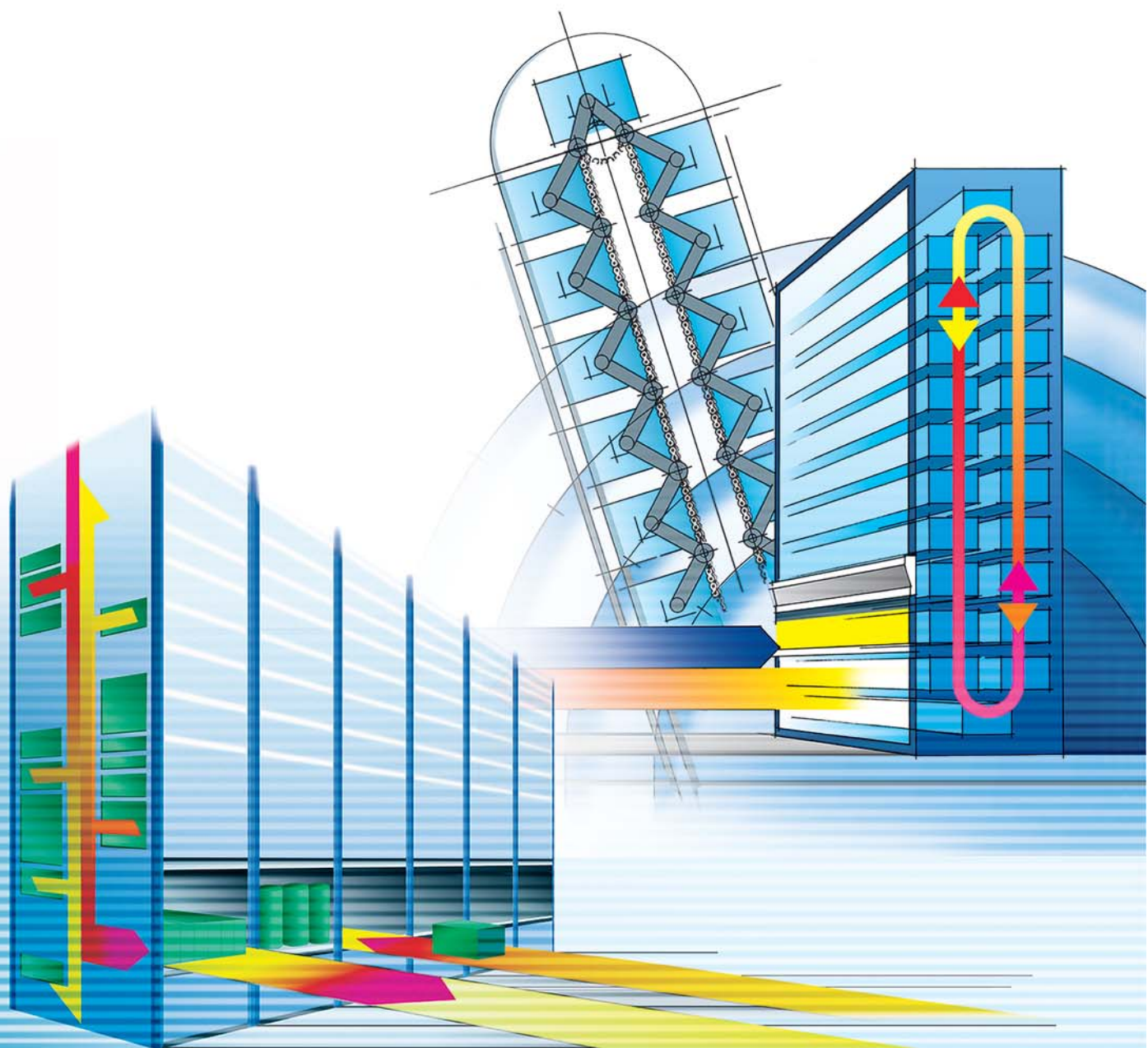


Hänel Office and Industrial Storage Systems Innovations and Perspectives in Intralogistics and Inventory Control

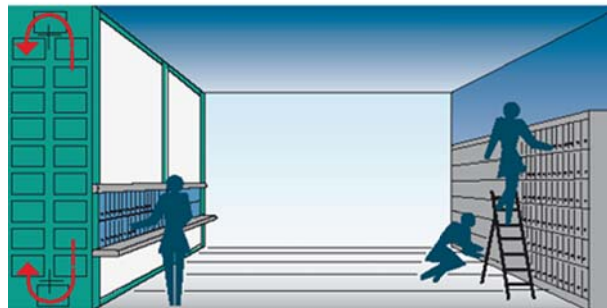


Innovative ideas. Sound technology. Flexible systems

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The Rotomat® office carousel system from Hänel: Optimum ergonomics, maximum space utilization, efficient cost cutting!

The principle is simple.
The application are brilliant!



The days when walls were lined with fitting cabinets and when index cards archives gathered dust are over. the legwork and ladder-climbing used in searching for file is now over.

A comparison shows clearly that the Hänel Rotomat system can cut space and time requirements by up to 60%

The pluses

- ▶ Optimum utilization of floor space. the term upward mobility takes on a new meaning with the Rotomat!
- ▶ The Rotomat is as flexible as you need it to be. Units can extend through several floor!
- ▶ Files to user is the motto, not user to files. Personnel costs and retrieval times can be dramatically reduced!
- ▶ High-performance controls and computer interfaceing ensure that the Rotomat can be put to use flexibly and on an individual basis!
- ▶ The required files are brought to the ergonomically positioned retrieval point at a touch of a button!
- ▶ Safety is considered of paramount importance. No climbing of ladders and no stretching or bending!
- ▶ The Rotomat protects all the files from dust, light and unauthorized access!
- ▶ Classic design, 5 attractive colors to choose from!

The Rotomat automatically brings the required file or media to the ergonomically designed retrieval point at the touch of a button. ladder-climbing used in searching for file is now over.

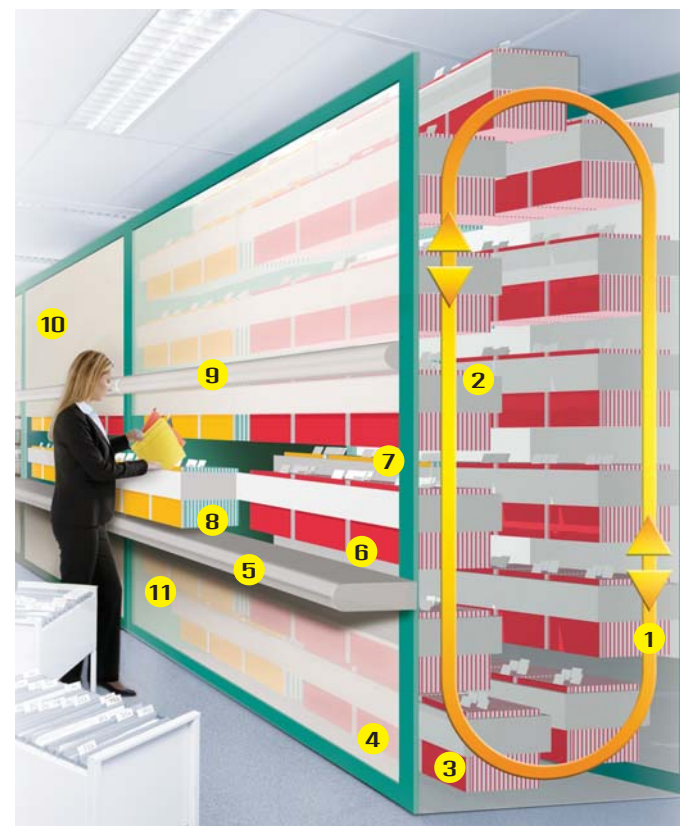
Microprocessor control units offer the possibility of networking the Rotomat directly with a PC or connecting other peripheral devices. Office organization of this kind should be as common as the desktop computer.

Each Hänel Rotomat is a vertical carousel designed according to the tried-and-tested Ferris wheel principle. i.e. the files are brought to the operator and not vice versa:

Rapid access means time saved!

The compact design allows **up to 60% more storage capacity** to be accommodated on minimal floor space by making use of the **This reduces costly office space!**

- ❶ Carriers attached to the rotating mechanism
- ❷ Heavy duty carriers for variable applications
- ❸ Drive system housed internally
- ❹ Soft start control using quiet control motors
- ❺ Retrieval at ergonomically positioned posting board
- ❻ Hänel safety threshold
- ❼ Light barriers of BWS-S design
- ❽ Hänel microprocessor control
- ❾ Lockable sliding doors
- ❿ Environmentally friendly powder-based finish
- ⓫ Maintenance access conveniently positioned at the front



- ▶ **Rapid Access**
- ▶ **More Storage Capacity**
- ▶ **Cost Saving**



Hänel Rotomat® industrial carousels: Efficient storage, optimized access times, ergonomic materials handling



Ideas that move the world ...



Legend

- 1 The principle of the Hänel Rotomat® industrial storage carousel**
Vertical carousel technology – simply brilliant
- 2 Carrier suspension**
on 4-point sliding carriage principle
- 3 Internal drive system**
with 2 motors
- 4 Soft start**
with pole-switching motors
- 5 Access point with V2A work counter**
virtually wear-proof
- 6 Patented safety threshold switch**
optimal personal protection
- 7 Light barrier curtains**
compliant with DIN EN 15095
- 8 Hänel microprocessor controllers**
and Hänel software solutions
- 9 Wiring box**
with centrally housed electrical components
- 10 Multifunction positioning system**
for accurate positioning of shelf levels
- 11 Lockable sliding doors**
for inventory protection
- 12 Load imbalance warning devices UL 2 and UL 3**
safe loading and prevention of uneven loads
- 13 Multifunction carriers**
with variable dividers and inserts
- 14 Compartment indicators**
for error-free retrieval
- 15 Environmentally friendly powder coating**
50 % more abrasion-resistant
- 16 Barcode scanners**
and other peripheral devices



Hänel multifunction carriers

Adaptable and versatile

No two Hänel Rotomats® are the same, because each task demands a precisely defined solution

The task defines the fittings

We provide customized interior fittings, tailored to the individual demands of production systems and storage logistics. The mechanical parts and carrier sets are configured according to the size and weight of the storage goods. It's this flexibility that makes the Hänel Rotomat® so cost-effective.

The Hänel multifunction carriers offer you customized, variable interior fittings that can be adapted effortlessly to your personal needs and the different article heights. This achieves maximum compaction of the storage volume.

And a wide range of accessories are available, such as plastic boxes, tool inserts, molded trays for small parts, holders for milling cutters, etc., which compliment the Hänel Rotomat®, turning it into a complete logistics system that saves costs, makes optimum use of space, makes work easier and minimizes distribution times.

Hänel also offers customized special-purpose holders for SMD reels, cable drums, printing rollers, rods and tubes.

Our specialists would be happy to develop a tailored solution for your storage requirements.

- ▶ Hänel multifunction carriers are absolutely stable and distortion-free.
- ▶ Variable fittings can be altered at a later date.
- ▶ Compartment dividers, bins, drawers or loose goods – the possibilities are endless.
- ▶ Long lifecycle and high load-bearing capacity up to 750kg per carrier, depending on the model.



Multifunction carrier with different front edge variants



Multifunction carrier with intermediate shelves slotted into punched holes and with movable dividers



Multifunction carrier with front wall – trough version with movable dividers



Multifunction carrier with drawers of different heights slotted into punched holes



Multifunction carrier with lowerable front walls



Hänel Rotomat® industrial storage carousels: warehousing, materials handling and access times redefined

Storage of mechanical parts for production and spare parts dispatch

Simply brilliant. Whether you need materials supply right at the production line or computerized spare parts storage – the Rotomat® does it all!

Everything is possible. You set the problem – we solve it!

Example 1: Instead of using awkward floor conveyor systems to retrieve tools from the storage rack, the Rotomat® feeds them to the correct work height at the touch of a button.

Example 2: Small-parts containers on the production line are not labor intensively stacked, but delivered as required, and stocks are replenished continuously without interruption of work.

Example 3: Spare parts storage, retrieval and sorting are computer-assisted and protected from dust and damage.

The pluses

- ▶ Fast storage and retrieval times!
- ▶ Interface with computer systems!
- ▶ Real-time inventory control guaranteed. No sudden parts shortage!
- ▶ Maximum use of the available floor space!
- ▶ Material supply at the production line which saves an enormous amount of time!
- ▶ Spare parts protected from dust and damage!
- ▶ Very economical and high in cost saving!

Detailed information on Hänel industrial carousels is given in the individual brochures.

Model	Max. useful load per shelf kg lbs	Max. useful load per unit kg lbs	Shelf depth mm inch	Shelf width mm inch	Unit width in mm in inch	Unit depth in mm in inch
Rotomat® 200-970	270 596	4,320 9,536	470 18.5	1,397 55	1,903 74.9	1,260 49.6
Rotomat® 900/100	150 331	3,000 6,622	370 14.5	2,260/2,855 88.9/122.4	2,600/3,270 102.3/128.7	1,000 39.4
Rotomat® 900/115	150/180 331/397	3,000 6,622	415 16.3	2,243/2,838 88.3/111.7	2,600/3,270 102.4/128.7	1,155 45.5
Rotomat® 900/125	150 331	3,000 6,622	470 18.5	2,243/2,847 88.3/112.1	2,600/3,280 102.4/129.1	1,255 49.4
Rotomat® 936	250 552	6,000 13,245	630 24.8	2,915 114.8	3,420 134.6	1,615 63.6
Rotomat® 946	330 728	6,000 13,245	630 24.8	2,915 114.8	3,420 134.6	1,615 63.6
Rotomat® 950	400 883	10,000 22,075	416 16.4	2,870 113.0	3,420 134.6	1,250 49.2
Rotomat® 956	340 400	10,000 22,075	640 25.2	2,870 113.0	3,420 134.6	1,670 65.8
Rotomat® 970	250 552	6,000 13,245	445 17.5	2,915 114.8	3,420 134.6	1,250 49.2
Rotomat® 980	600 1,324	14,000 30,905	505 19.9	2,750 108.3	3,420 134.6	1,475 58.1
Rotomat® 985 S	750 1,656	14,000 30,905	505 20.0	2,750 108.3	3,420 134.6	1,600 63.0
Rotomat® 985	500 1,104	14,000 30,905	620 24.4	2,750 108.3	3,420 134.6	1,720 67.7
Rotomat® 990	250 552	10,000 22,075	640 25.2	2,870 113.0	3,420 134.6	1,670 65.7

The table shows the various Hänel Rotomat® industrial carousels.

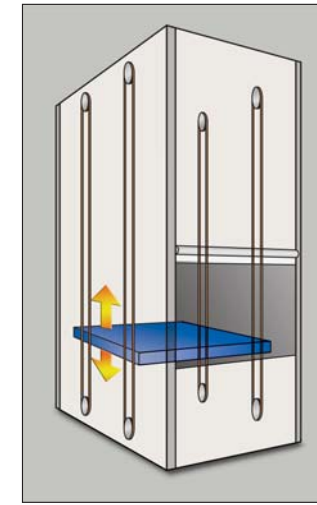


The Lean-Lift® from Hanel: a new standard in automated materials handling and storage systems



The Hanel Lean-Lift at work as a materials handling system right at the production line

This is why the Lean-Lift from Hanel is the logical complement to the tried-and-tested Hanel Rotomat principle



The automated 'high-bay warehouse in a cabinet'

The Lean-Lift from Hanel is both storage efficiency and goods protection in one: at the center of the 'cabinet' is a computerized lift - called the 'extractor'.

In front and behind it are the storage shelves. This is where the articles are stored in containers.

The storage locations are accessed through electronic control by the extractor. It stores or retrieves the container requested. The system is operated comfortably at the optimum ergonomic height at the retrieval zone.

- ▶ Fast storage and retrieval times!
- ▶ Protection of stored articles!
- ▶ Storage and handling of bulky, and heavy parts, or dissimilar sized parts!
- ▶ Load-carrying capacity per container up to 1,000kg/ 2,208lbs!
- ▶ Load-carrying capacity per Lean-Lift up to 60,000kg/ 132,450lbs (tested statics)!
- ▶ Material to operator, not operator to material: this saves time!
- ▶ High efficiency and cost savings!

The vertical transporter (extractor) has a 4-point suspension system.

This offers enormous advantages:

- ▶ Extractor does not tilt!
- ▶ No problem with load imbalance, not even with heavy loads, which means longer service life!
- ▶ Easy maintenance access from the side!

... and the tried-and-tested, low-noise 4-chain technology!

- ▶ Roller chains are durable, no fatigue failures occur!
- ▶ Long service life!
- ▶ No replacement necessary after fixed maintenance intervals!
- ▶ Roller chains have a higher rate of efficiency (98%)!
- ▶ More accurate positioning because of higher rigidity!
- ▶ Non-slip hold in the event of emergency stops!

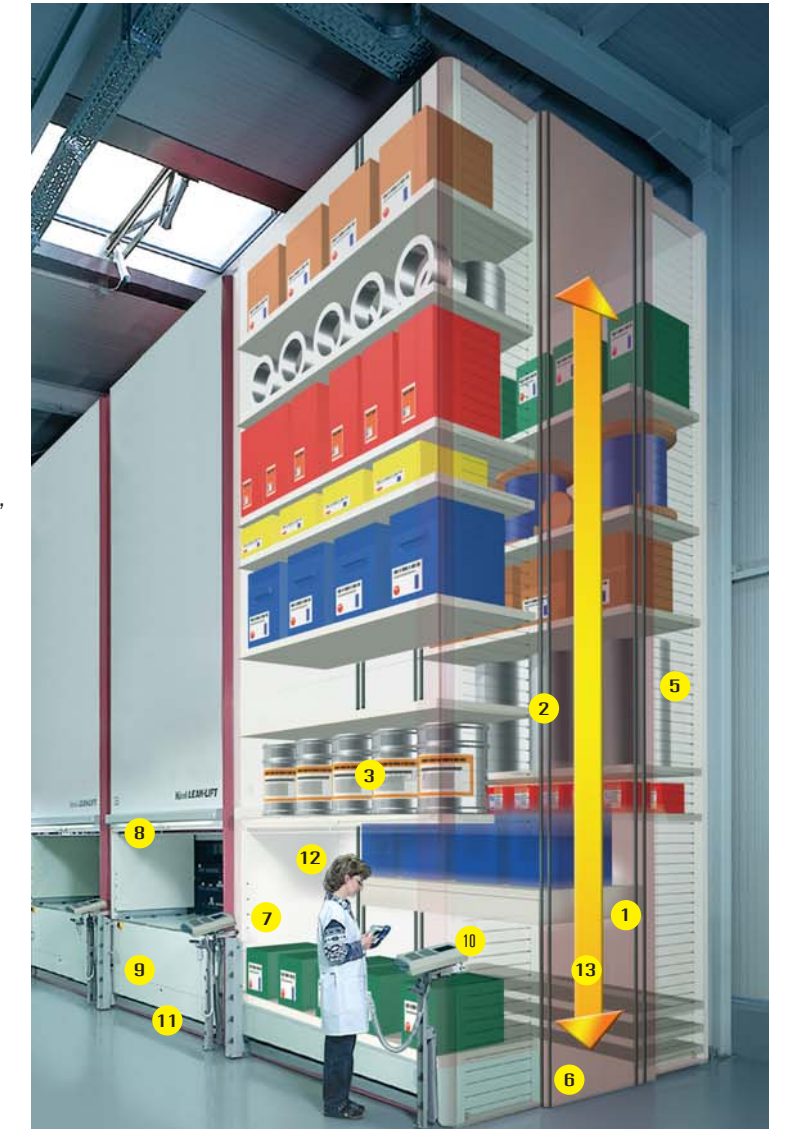
New generation of the Hanel Lean-Lift in a high-speed version

Lean-Lifts with a container load capacity of up to 500kg/1,104lbs, now in a high-speed version.

vertical speed:
with empty extractor 2.3 m/sec,
with loaded extractor 1 m/sec!
Horizontal speed:
jolt-free 0.5 m/sec!

Each Hanel Lean-Lift is also fitted with a soft-start control with frequency converter. The advantage: optimum acceleration and deceleration.

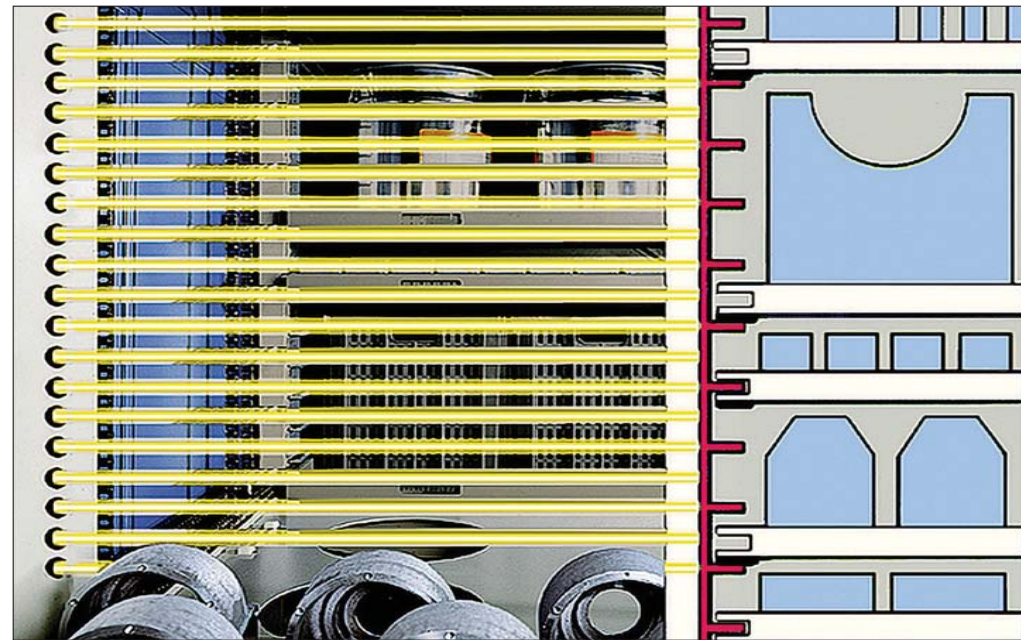
Simple yet powerful: Vertical lift technology with the Lean-Lift® from Hanel



- 1 The 'Extractor' stores and retrieves the articles
- 2 4-chain-system for optimum guidance of the extractor
- 3 Storage locations with stored articles
- 4 Container for holding and transporting the articles
- 5 Integrated frame profile for height-optimized placement of the containers
- 6 Soft start control with frequency converter
- 7 Self-monitoring light barriers in BWS-S design
- 8 Lockable sliding doors for article protection
- 9 Environmentally friendly powder-based finish ensures 50% higher scuff resistance
- 10 Hanel microprocessor control unit on movable Vario-arm
- 11 Wiring cabinet - the electronics are easy to access
- 12 Photo-sensors for height detection to measure article heights and safety
- 13 Service door conveniently positioned at the side

A wide range of varied storage articles demands a variable system: the Lean-Lift® from Hanel

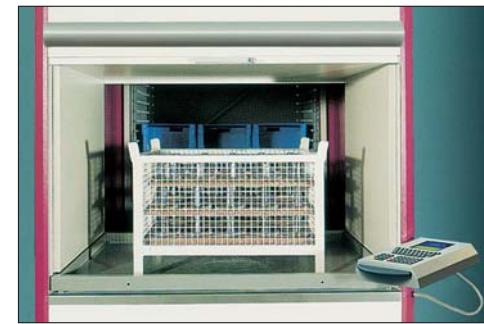
High flexibility guaranteed by the integrated frame profile for precise placement of the containers



Hanel's height sensors in 25mm / 0.98", 37.5mm / 1.48", 75mm / 2.95", 90mm / 3.54" and 125mm / 4.92" steps

Different height-measuring light barriers, designed to fit the pitch profile exactly, measure the storage items and store the containers according to their individual height without any loss of space!

A priority system allows the storage locations closest to the retrieval point to be allocated manually or automatically - time-consuming relocation operations are no longer necessary. Only the Lean-Lift from Hanel offers you this!



The load-carrying capacity

of automated storage and materials handling systems is determined by the weight and dimensions of the stored articles.

This is where the Lean-Lift from Hanel performs the extraordinary:

load capacity per container
250 kg / 552 lbs
500 kg / 1,104 lbs or
1,000 kg / 2,208 lbs
total load capacity

20,000 kg / 44,150 lbs
30,000 kg / 66,225 lbs
40,000 kg / 88,300 lbs or
60,000 kg / 132,450 lbs
full use of the feed / retrieval opening 740mm / 29.10" high and more.

An ingenious design:

The Hanel frame profile in 75 mm / 2.95", 90 mm / 3.54" or 125 mm / 4.92" steps offers a multiplicity of options:

The frame profile is a built-in as fixed wall with integrated slots in 75 mm/2.95", 90 mm/3.45" or 125 mm/4.92" steps and optimum space-saving storage in the extreme.

Smooth design on the outside - storage slots on inside!

Highly impressive, Hanel's ultra-stable profile wall!

Hanel invented the profile wall - and has over 10 years of experience in this technology!

The ultra-stable, high-precision profile wall is firmly fixed to the bearing columns.

- ▶ Optimum, compact storage even when articles are of different heights!
- ▶ The Lean-Lift always offers compact and variable storage - without the need for any mechanical or electronic adjustment!

Hanel multifunction containers

- ▶ Full-length, integrated supports offer optimum utilization of the storage height with maximum rigidity!
- ▶ Containers with 75 mm/2.95", single pitch or with multiple pitch at 37.5 mm/1.47" and 25 mm/0.98" height in conjunction with the Hanel profile wall offer numerous possible combinations!
- ▶ Punched holes for individualized dividers!



Even highly varied and bulky articles such as pallets, engine blocks, tools, paint buckets, crates or cable drums are no problem for the Lean-Lift from Hanel.



We never compromise on quality

Technical Data

Model	Dimensions in mm/inches		Container dimensions in mm/inches		Useful load in	
	Depth	Width	Width	Depth	kg	lbs
840 - 635	2,240/ 88.19	1,165/ 45.90	840/ 33.00	635/25.00	300/500	660/1,100
1300 - 635	2,240/ 88.19	1,165/ 63.98	1,300/ 51.18	635/25.00	300/500/1,000	660/1,100/2,210
1640 - 635	2,240/ 88.19	1,965/ 77.40	1,640/ 64.57	635/25.00	300/500/900	660/1,100/1,984
1860 - 635	2,240/ 88.19	2,185/ 86.00	1,860/ 73.23	635/25.00	250/500/900	550/1,100/1,984
2060 - 635	2,240/ 88.19	2,385/ 93.90	2,060/ 81.10	635/25.00	250/500/850	550/1,100/1,873
2300 - 635	2,240/ 88.19	2,625/103.35	2,300/ 90.55	635/25.00	250/400/470/800	550/880/1,038/1,763
2460 - 635	2,240/ 88.19	2,785/109.65	2,460/96.85	635/25.00	190/250/400/650	420/550/880/1,433
2860 - 635	2,240/ 88.19	3,185/125.39	2,860/112.59	635/25.00	190/250/400/650	420/550/880/1,433
3060 - 635	2,240/ 88.19	3,185/133.27	3,060/120.47	635/25.00	190/300/450/625	420/660/990/1,378
3260 - 635	2,240/ 88.19	3,585/141.14	3,260/128.34	635/25.00	190/250/400/600	400/550/880/1,323
840 - 825	2,810/110.60	1,165/ 45.90	840/ 33.00	825/32.50	300/500/1,000	660/1,100/2,210
1300 - 825	2,810/110.60	1,625/ 63.98	1,300/ 51.18	825/32.50	300/500/1,000	660/1,100/2,210
1640 - 825	2,810/110.60	1,965/ 77.40	1,640/ 64.57	825/32.50	300/500/900	660/1,100/1,984
1860 - 825	2,810/110.60	2,185/ 86.00	1,860/ 73.23	825/32.50	250/500/900	550/1,100/1,984
2060 - 825	2,810/110.60	2,385/ 93.90	2,060/ 81.10	825/32.50	250/500/850	550/1,100/1,873
2230 - 825	2,810/110.60	2,625/103.35	2,300/ 90.55	825/32.50	250/470/800	550/1,038/1,763
2460 - 825	2,810/110.60	2,768/109.65	2,460/ 96.85	825/32.50	250/470/800	550/1,038/1,763
2860 - 825	2,810/110.60	3,185/125.39	2,860/112.59	825/32.50	190/250/400/650	420/550/880/1,433
3060 - 825	2,810/110.60	3,385/133.27	3,060/120.47	825/32.50	180/250/400/625	400/550/880/1,378
3260 - 825	2,810/110.60	3,585/141.14	3,260/128.34	825/32.50	180/250/400/600	400/550/880/1,323
840 - 1047	3,475/136.80	1,165/ 45.90	840/ 33.00	1,047/41.20	300/500/1,000	660/1,100/2,210
1300 - 1047	3,475/136.80	1,165/ 63.98	1,300/ 51.18	1,047/41.20	300/500/950	660/1,100/2,097
1640 - 1047	3,475/136.80	1,965/ 77.40	1,640/ 64.57	1,047/41.20	250/500/850	550/1,100/1,873
1860 - 1047	3,475/136.80	2,185/ 86.00	1,860/ 73.23	1,047/41.20	250/450/850	550/990/1,873
2060 - 1047	3,475/136.80	2,385/ 93.90	2,060/ 81.10	1,047/41.20	250/450/800	550/990/1,763
2460 - 1047	3,475/136.80	2,785/109.65	2,460/ 96.85	1,047/41.20	250/400/750	550/880/1,655
2860 - 1047	3,475/136.80	3,185/125.39	2,860/112.59	1,047/41.20	250/350/700	550/772/1,543
3060 - 1047	3,475/136.80	3,385/133.27	3,060/120.47	1,047/41.20	220/300/650	440/660/1,435
3260 - 1047	3,475/136.80	3,585/141.14	3,260/128.34	1,047/41.20	220/300/600	440/660/1,323
840 - 1270	4,150/163.40	1,165/ 45.90	840/ 33.00	1,270/50.00	300/500/1,000	660/1,100/2,210
1300 - 1270	4,150/163.40	1,165/ 63.98	1,300/ 51.18	1,270/50.00	300/500/900	660/1,100/1,984
1640 - 1270	4,150/163.40	1,965/ 77.40	1,640/ 64.57	1,270/50.00	250/500/800	550/1,100/1,763
1860 - 1270	4,150/163.40	2,185/ 86.00	1,860/ 73.23	1,270/50.00	250/450/800	550/990/1,763
2060 - 1270	4,150/163.40	2,385/ 93.90	2,060/ 81.10	1,270/50.00	250/400/750	550/880/1,653
2460 - 1270	4,150/163.40	2,785/109.65	2,460/ 96.85	1,270/50.00	250/400/700	550/880/1,543
2860 - 1270	4,150/163.40	3,185/125.39	2,860/112.60	1,270/50.00	200/300/700	440/660/1,543
3060 - 1270	4,150/163.40	3,385/133.27	3,060/120.47	1,270/50.00	200/250/650	440/550/1,435
3260 - 1270	4,150/163.40	3,585/141.14	3,260/128.35	1,270/50.00	200/250/600	440/550/1,323

Max. useful load up to 60,000kg/132,280lbs
Examples from a wide range of possibilities



Hänel - a company that is committed to top quality

On September 1, 1993, Hänel Germany was awarded the international certificate of quality according to ISO 9001 by the 'German Association for Certification of Quality Management Systems'. It was the first company in its field (vertical lift technology) worldwide to achieve this distinction.

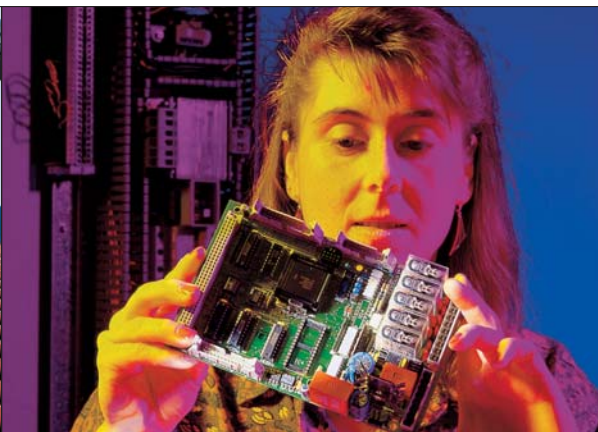
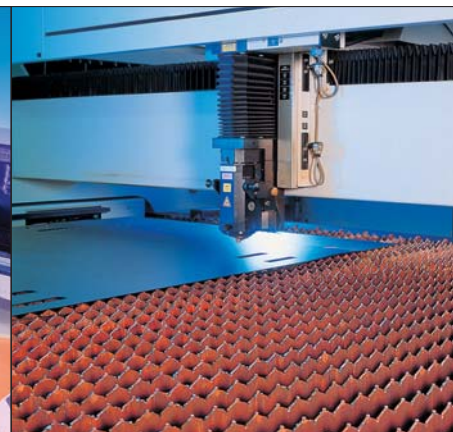
And in 2005 once again the process-oriented quality management of Hänel was acknowledged by the technical control board of TÜV Süd Group with the current ISO 9001:2000 Certificate.

No two the same

No two Lean-Lifts® are the same. Simply because each task is individual. This is why at Hänel high quality consulting takes first place alongside product quality.

Commitment to the environment

It goes without saying that production in our three plants follows the latest environmental guidelines, and even surpasses them. We use only environmentally friendly and recyclable materials.



Efficient work process with storage management systems

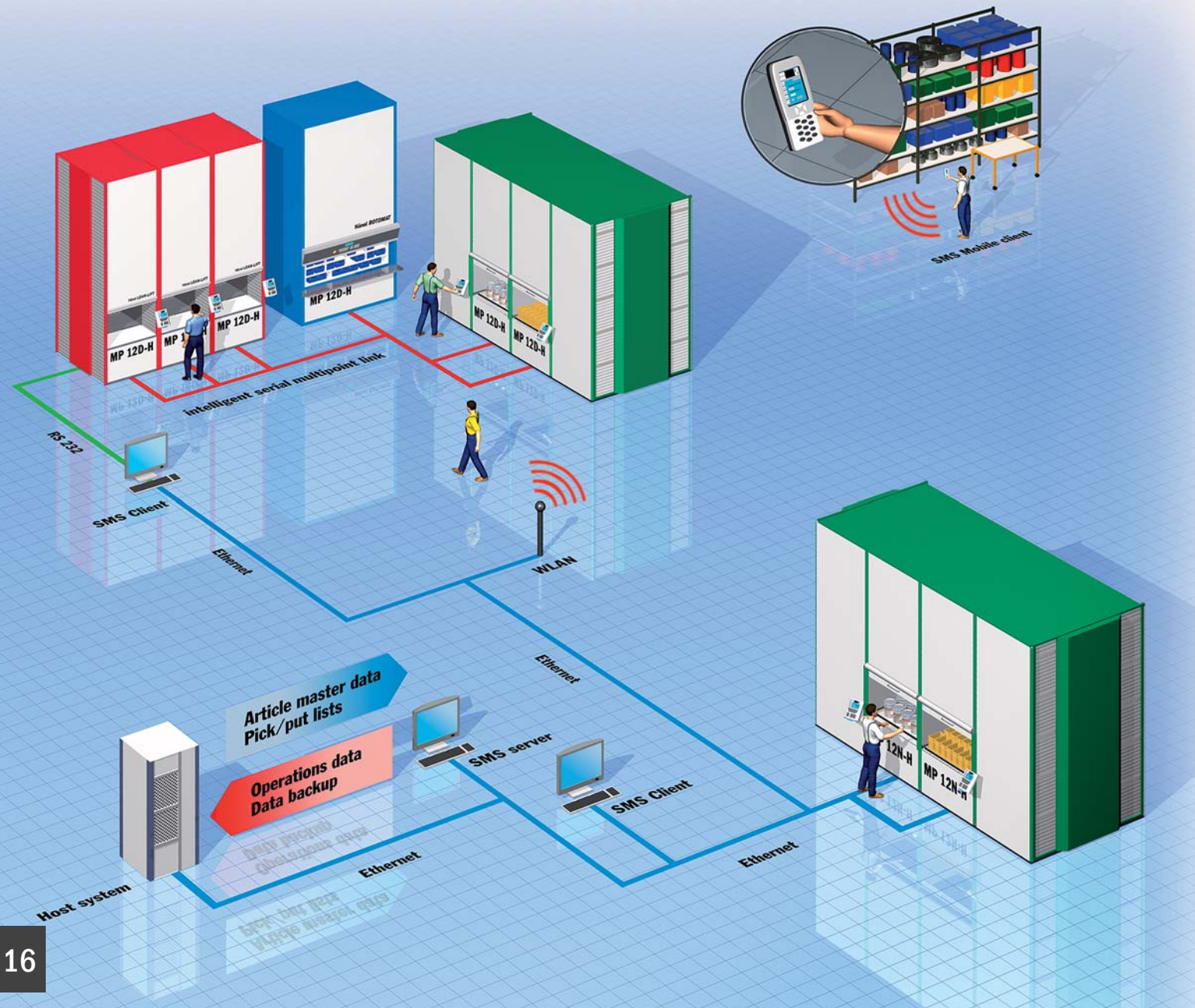
Maximum control over stocks with Hänel storage units

It doesn't matter whether you work with the software solutions from Hänel or other storage management software – Hänel storage units can be integrated effortlessly into the most varied of software environments through the microprocessor control units.

Even complex storage situations, for example when manual stores are also used, can be managed centrally.

The pluses

- ▶ Operation directly at the storage units – ergonomic, practice-oriented and time-saving.
- ▶ Asynchronous processes at the storage units – each unit works independently.
- ▶ Prioritized storage location search in front of the responsive storage unit.
- ▶ Data exchange with all commercially available ERP and SMS systems.
- ▶ Can be expanded at any time by adding more storage units.



Maximum user comfort thanks to individual, needs-based positioning of the control keyboard

Hänel offers various solutions for ergonomic integration of the control terminal - depending on the needs of the customer.



Hänel Lean-Lift control keyboard on movable Vario arm (standard)



Control keyboard fixed to the container support (optional)



Control keyboard swivel-mounted on the Lean-Lift housing (optional)



Control keyboard on movable stand at working height (optional)

Ergonomic integration of the control terminal



Keyboard in the Rotomat control box above the retrieval point, keys positioned centrally at eye level (standard)



Pull-out keyboard housed beneath the Rotomat work counter



On the Hänel office Rotomat the control panel's integrated ergonomically into work counter

Hänel microprocessor control systems at a glance



Models	MPOA	MP12D-S	MP12D-H	MP12N-S	MP12N-H	MP100D
Rotomat® Office Carousels	●	●	●	●	●	●
Rotomat® Industrial Carousels	●	●	●	●	●	●
Lockomat®	—	●	●	●	●	●
Lean-Lift®	—	●	●	●	●	●
Multi-Space®	—	●	●	●	●	●
Display variants						
LED, 3-character, numeric	●	—	—	—	—	No display Display via MP12D-H or MP12N-H
VFD, 2-line, 20 characters each	●	—	—	—	—	
VFD, 4-line, 20 (40) characters each	—	●	●	●	●	
CSTN colour display, 320 x 240 pixels	—	●	●	—	—	
TFT colour display, 800 x 600 pixels, with Touchscreen technology	—	●	●	●	●	
Functions						
Device control with direct selection of shelves/containers	●	●	●	●	●	—
Central control for connection of up to 99 storage units (database server)	—	—	—	—	—	●
Integrated Hänel storage management packages	—	●	—	●	—	●
Numerous add-on functions thanks to intelligent software modules	—	●	●	●	●	●
Integrated web server for direct access to the storage data by web browser	—	—	—	●	—	●
Multilingual user interface with Latin script	●	●	●	●	●	No display
Multilingual user interface with UNICODE, e.g. for Chinese	—	—	—	● ¹⁾	● ¹⁾	
Access authorization via RFID	—	●	●	●	●	●
Storage location display by compartment LEDs	●	●	●	●	●	—
Automated load imbalance indicator UL 2 for Rotomat®/Lockomat®	●	●	●	●	●	—
Optimization run on Lean-Lift®	—	●	●	●	●	—
Access Priority Factor with Lean-Lift®	—	●	●	●	●	—
Expanded safety bypass package (redundancy package)	—	●	●	●	●	—
Network/Peripherals						
RS232 interface for the connection of printers, barcode scanners, scales, etc.	—	4	4	4	4	4
Ethernet interface for quick and easy integration into existing corporate networks	—	—	—	●	●	●
Intelligent multipoint link for networking multiple storage units	—	—	●	—	●	●
Networking of 2 control systems with data exchange between the storage modules	—	—	—	●	—	—
Client control for connection to the central control system MP 100 D via Hänel multipoint interface	—	—	●	—	●	—
Client control for connection to the central control system MP 100 D via Ethernet	—	—	—	—	●	—
Client control for connection to a host system via RS 232	●	—	●	—	—	—
Client control for connection to a host system via Ethernet	—	—	—	—	●	—

● Equipment variant available

— Equipment variant not available

¹⁾ Only in conjunction with TFT display

We have more in store...

Hänel Rotomat® office carousels

The optimal filing systems for office and administration

Hänel started series-producing filing carousels (the first manufacturer in Europe to do so) over 50 years ago – and you reap the benefits of this long experience!

With the Hänel Rotomat® office carousel, we offer a flexible organization and filing system that adapts optimally to your needs.

The pluses

- ▶ Optimum use of floor space. There are no upper limits to the Rotomat®.
- ▶ High-performance controllers and interface with IT systems make the Rotomat® flexible and enable customized applications.
- ▶ The office worker no longer goes to the files, instead the files are brought automatically to the ergonomic retrieval height when requested.
- ▶ The Rotomat® protects all the files from dust, light and unauthorized access.



The right file is found among thousands of hanging folders in seconds

Hänel Lean-Lift®

Vertical technology – simply brilliant

The Hänel Lean-Lift® is both storage rationalization and goods protection in one: At the center of this closed system is a computer-controlled positioning lift – the

'extractor'. In front of it and behind it are the storage shelves. This is where the articles are stored in containers in height optimized positions.

The pluses

- ▶ Fast storage and retrieval times.
- ▶ High storage density, even when articles have different heights.
- ▶ Improved order-picking performance.
- ▶ Load-bearing capacity of up to 1,000 kg per tray.
- ▶ Load-bearing capacity of up to 60,000 kg per Lean-Lift® (higher payloads on request).
- ▶ Integrated storage management.



Depending on the height of the Hänel Lean-Lifts®, access points can be installed on different floors. Several people can use the Hänel Lean-Lift® simultaneously at different positions and levels

Hänel Multi-Space®

The new definition of vertical lift technology

The innovative 3-axis storage system from Hänel with the many advantages of time-proven Hänel Lean-Lift® technology. Whether it operates as a stand-alone solution, in a network with other

Multi-Space® units or in combination with Lean-Lifts® and Rotomats® – the Hänel Multi-Space® offers another innovative solution for your intralogistics!

The pluses

- ▶ Unique extractor design in state-of-the-art lightweight construction (as used in bridge engineering) guarantees maximum stability.
- ▶ The Hänel Multi-Space® offers modular scalability in height and width – up to a total width of over 9 meters.
- ▶ Variable container widths, different payload capacities and the Hänel multiple pitch ensure the optimal solution for any challenge to compact storage.



Two Hänel Multi-Space® units each 9.57 m wide constitute the central store for the production hall

The Hänel product portfolio – the right solution for every need!



Hänel Rotomat® office carousel

The Hänel Rotomat® is the optimal filing system for office and administration.

Folders, index cards or files – the Hänel Rotomat® keeps them all in order. It finds the right file from among thousands of hanging folders and retrieves it in seconds. The powerful Hänel micro-processor control systems enable the Rotomat® to be networked directly with a PC.

All Rotomat® office carousels are also available in a version suitable for disabled operators.



Hänel Rotomat® industrial carousel

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

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. No two Hänel Rotomats® are the same, because each task demands a precisely defined solution.



Hänel Locktomat®

The Hänel Locktomat® is the ideal storage system for safe and secure provisioning of small parts, tools, electronic components, medicines, etc.

User authentication is provided by ID card, PIN code or optionally by transponder. The Hänel Locktomat® can be used in a wide range of sectors: the chemical industry, banking, pharmacies, etc.: wherever items that look the same on the outside but are entirely different on the inside need to be stored and retrieved quickly and without error.



Hänel Lean-Lift®

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 goods are then delivered to the retrieval area at the correct ergonomic height.



Hänel Multi-Space®

Hänel has optimized the principle of 3-axis storage systems with the Hänel Multi-Space®. In addition to the many advantages of the Hänel Lean-Lift® technology, the Hänel Multi-Space® offers maximum flexibility, speed and use of space.

With its advanced technology, Hänel is able to offer a 3-axis storage system over 9 m in width. The Hänel Multi-Space® can even be varied in width and height once installed – an innovation from Hänel!

Even the number of retrieval points is variable and can be changed at any time.



The intelligent Hänel control and software technology

Our strength lies in our know-how. Because only object-related, practice-oriented microprocessor control units can offer you a complete storage management system. Hänel storage systems can also be controlled via a computer interface, of course. Interface with enterprise resource planning systems is no problem. Hänel also offers software solutions for individual requirements.

And part of Hanel Quality is
being there whenever you need us

The Hänel Service Team

We see customer service
as our obligation



The people working in our dealers are trained at our plants and approach their jobs in a highly motivated fashion – whether a storage management concept needs to be developed, operating personnel need to be trained or maintenance and repair work needs to be done.

In recognition of their quality management system, Hanel Germany and Hanel Switzerland have been awarded the ISO 9001 quality certificate for production, design, development, assembly, sales and service.

It's good to know there are people who know their trade and who perform their work with integrity.

Maintenance access from the side

Maintenance or repair work is easy to carry out on the Lean-Lift from Hanel – no need for time-consuming dismantling of equipment!



Reference in Thailand



Hänel
Büro- und Lagersysteme

P. O. Box 1161
D-74173 Bad Friedrichshall
Tel.07136/277-0
Fax07136/277201
E-mail: info@haenel.de
www.hanelworldwide.com

Hänel
Büro- und Lagersysteme

Bafflesstrasse 21
CH-9450 AltstättenSG
Tel.071/7573080
Fax071/7573085
E-mail: info@haenel.ch
www.haenel.ch

Hanel Systèmes

Europarc - 139, Chemin des Bassins
F-94035 Créteil Cedex
Tél. 01 45139610
Fax01 45139613
E-mail: hanel@hanel.fr
www.hanel.fr

Hänel
Kantoor- en Magazijnsystemen

De Linie 3D
NL-2905 AX Capelle a/d IJssel
Tel.010/4504450
Fax 010/4503577
E-mail: info@haenel.nl
www.haenel.nl

Hänel
Storage Systems

121 Industry Drive
Pittsburgh, PA 15275
Tel.(412) 787-3444
Fax (412) 787-3744
E-mail: info@hanel.us
www.hanel.us

Sales Representative



Sole Distributor in Thailand

Logistics Mart Co.,Ltd.

59/1 Moo 9 Bangwua,
Bangpakong, Chachoengsao
24180 Thailand.

Tel.(662) 751-1466

Fax.(662) 751-1561

E-mail.hanel@suteegroup.com

www.logisticsmart.co.th

www.suteegroup.com



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