

The Hänel Group
Innovations and Perspectives in Intralogistics
and Office Organization



Ideas that move the world...



Joachim Hänel
Chief Executive Sales



Michael Hänel
Chief Executive Technology

Hänel Office and Industrial Storage Systems

A company with tradition and future

Since the 1950s the name 'Hänel' has stood for innovative solutions in automated records and materials handling.

Today we are one of the world's leading providers in the industry.

Thanks to the continuous refinement of our products and software, the solutions we offer today will meet the requirements of tomorrow.

For all this technological progress, we are fully aware of our responsibility to the environment, and we always aim to achieve the highest possible environmental compatibility in our development and production processes. Hänel was, for example, the first producer of vertical lift technology to develop an EcoDrive® system, which converts the kinetic energy of the descending extractor into electrical energy and feeds it back into the electrical supply system. This is yet another contribution toward saving energy and protecting the environment.

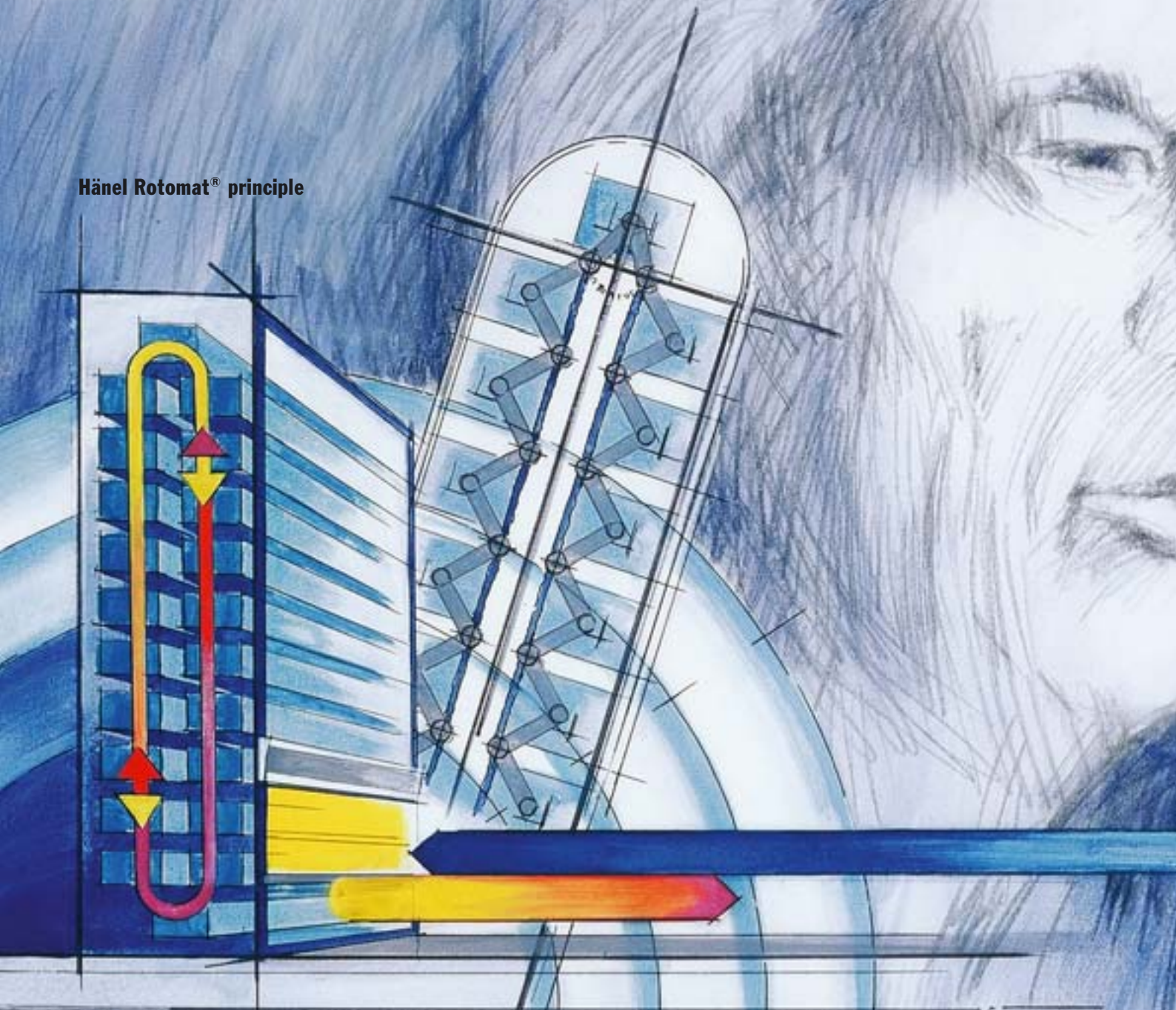
The maxim of our company founder, Gerhard Hänel, was 'To do nothing by halves is the way of noble spirits' – an approach that defines our actions to this day. So we shall continue to develop efficient, ergonomic and space-saving storage solutions for your intralogistics and office organization needs well into the future.

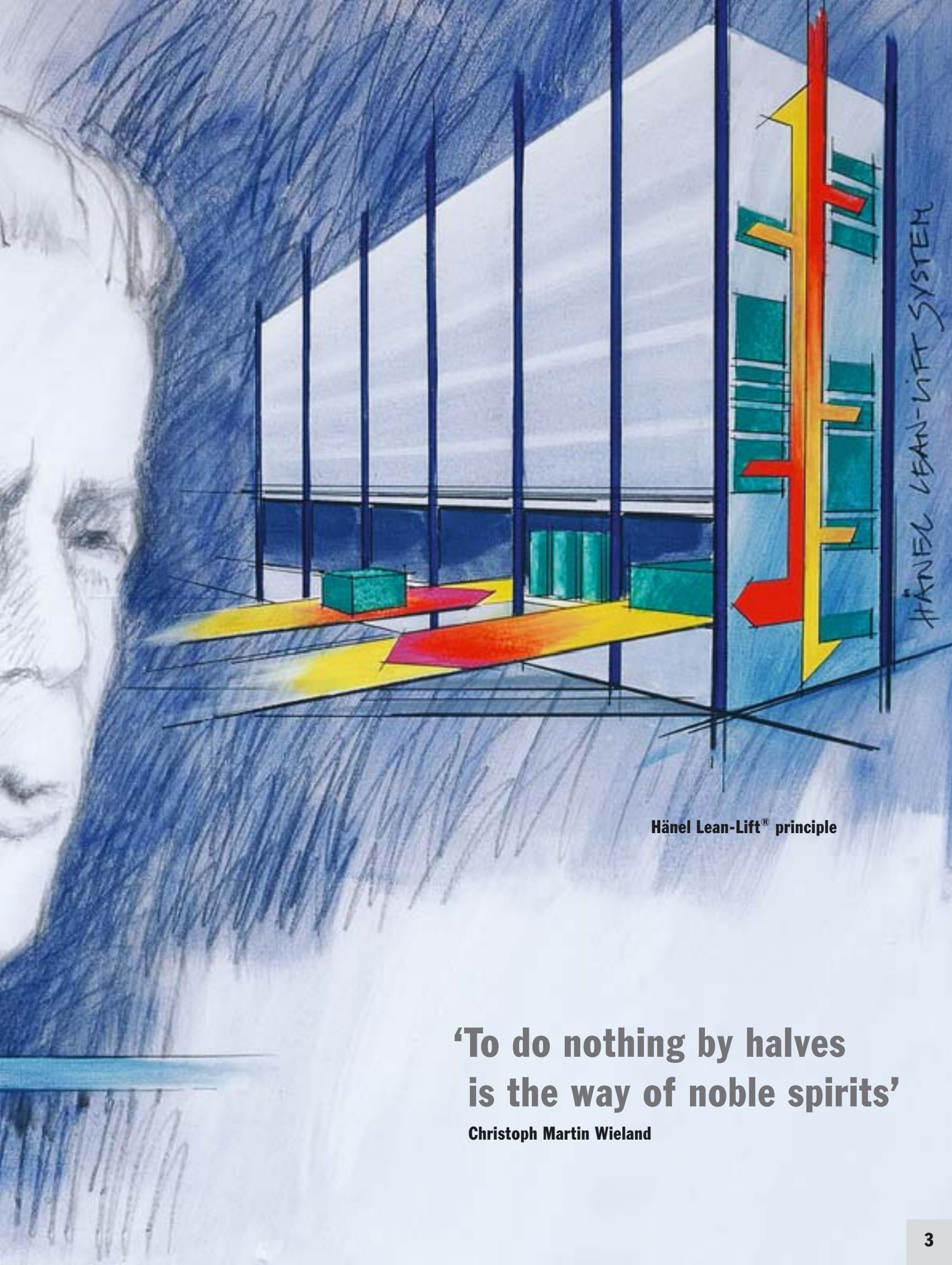
Kind regards

Joachim Hänel

Michael Hänel

Hänel Rotomat® principle





Hänel Lean-Lift® principle

**‘To do nothing by halves
is the way of noble spirits’**

Christoph Martin Wieland

No future without a past

Milestones in Hänel's success

1953

Gerhard Hänel founded **'Hänel Büro- und Lagersysteme'** in Bad Friedrichshall, Germany.



Hänel is the **first manufacturer in Europe** to series-produce filing carousels based on the Ferris wheel principle.

1957



1968 Hänel Plant 2 goes into operation in Wiesentheid / Bavaria.

Hänel Precision Gears
Bad Friedrichshall, Germany



70s

At the start of the 70s the first Hänel **industrial vertical carousels** are launched.

1972 In Altstätten SG, Switzerland, Hänel Plant 3 starts production.



As early as 1973, Hänel was looking into lightweight construction techniques and developed the first **aluminum-based vertical carousels**. This technical achievement has remained unmatched to this day.

1973

1978

Hänel designs and produces **heavy-duty carousels** with a **storage capacity of over 10 tons**. Unprecedented at the time!



80s

The 1980s saw the development of a wide range of industrial storage carousels for the global market.



New branches established – Hänel USA and Hänel France.

Hänel Netherlands followed **early in 1990**.

1993

Hänel Germany is the first company in its sector (vertical lift technology) to be awarded the ISO 9001 certificate.



First Lean-Lift® with vertical technology and 552 lbs payload capacity per container.

Hänel sets the standard in vertical lift technology by inventing the Hänel profile wall.

1994

Hänel Altstätten also awarded ISO 9001 certificate – the first company in its sector (vertical lift technology) in Switzerland.

1995

1996

Lean-Lift® with 1,104 lbs payload capacity per container.

97/98

Massive expansion of manufacturing capability with state-of-the-art production technology.



Lean-Lift® with 2,208 lbs payload capacity per container.

1999

2001

Hänel opens a new Demo Center in Bad Friedrichshall.



Hänel moves into its new administration building.

2004

Hänel is the first manufacturer in Germany to offer the option of fitting its vertical lift modules with digital camera technology.

2003



In a world premiere at the CeMAT trade fair, Hänel unveils the patented 3-axis Multi-Space® storage system – the new definition of vertical lift technology.

2005

2008

Hänel, the inventor of the extractor with double container placement, perfects this system and develops the Hänel Lean-Lift® in DualDrive® design.

Doubling of the production area at the Hänel plant in Wiesentheid, Bavaria.



Hänel introduces an EcoDrive® version of the Lean-Lift® – a world first for producers of storage systems.

CO₂ reductions thanks to efficient energy recovery using a frequency converter with feedback unit.



2009

Celebration of Gerhard Hänel's 100-year anniversary.

2011

At CeMAT 2011 Hänel showcases numerous innovations and highlights the new Hänel EcoConcept: Hänel EcoDrive®, EcoLoad® and EcoMode® are efficient systems integrated in the Hänel Lean-Lift® and Hänel Rotomat® to reduce energy consumption in the warehouse.

Presentation of the Hänel Rotomat® in high-speed version.

Again at CeMAT Hänel introduced the award-winning Hänel VendiShelf system for safe and secure storage.



Hänel innovations at the CeMAT 2014: Hänel controller as SAP terminals

The latest generation of the MP 12 N-H/ HostWeb controller can be used as an SAP terminal with the SOAP protocol.

2014



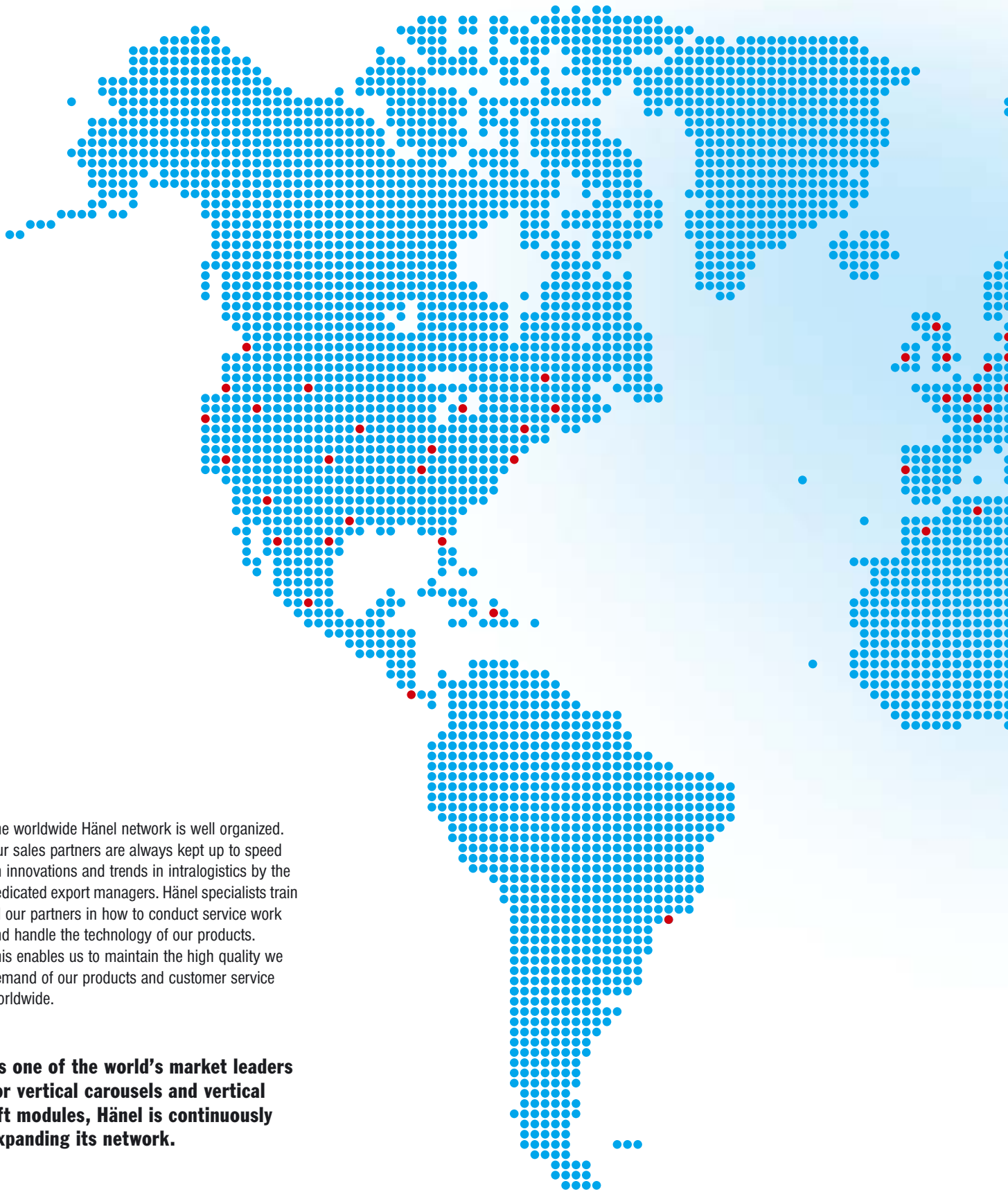
HänelSoft® – Reloaded!

The successful Hänel warehouse management software with new functions and design.

Hänel Lean-Lift® in extra-wide design with a container width of up to 13.32 ft.

Today

Hänel is one of the world's leading manufacturers of storage and organization systems, with distributors in over 60 countries.



The worldwide Hänel network is well organized. Our sales partners are always kept up to speed on innovations and trends in intralogistics by the dedicated export managers. Hänel specialists train all our partners in how to conduct service work and handle the technology of our products. This enables us to maintain the high quality we demand of our products and customer service worldwide.

As one of the world's market leaders for vertical carousels and vertical lift modules, Hänel is continuously expanding its network.



● Hänel distribution partners

The sales organization at a glance

The Hänel Group



Hänel Office and Industrial Storage Systems

Bad Friedrichshall



Hänel Kantoor- en Magazijnsystemen

Alblasserdam



Hänel Precision Gears

Bad Friedrichshall



Hanel Systèmes

Créteil



Hänel Storage Systems

Pittsburgh



Hänel Office and Industrial Storage Systems

Altstätten

Distribution Centers

Netherlands

Australia	New Zealand
Austria	Norway
Belgium	Philippines
Brazil	Poland
Bulgaria	Portugal
China	Romania
Denmark	Russian Federation
Estonia	Serbia
Finland	Singapore
Germany	Slovenia
Great Britain	South Africa
Greece	South Korea
Hong Kong	Spain
Hungary	Sweden
India	Taiwan
Ireland	Thailand
Italy	Turkey
Latvia	Ukraine
Lithuania	Vietnam
Luxembourg	
Malaysia	

France

Canada	Mexico
Central America	USA

Algeria	Nigeria
Bahrain	Oman
Czech Republic	Qatar
Egypt	Saudi Arabia
Iran	Slovak Republic
Iraq	Switzerland
Jordan	Syria
Kuwait	Tunisia
Lebanon	United Arab Emirates
Libya	
Morocco	

Hänel production plants



Hänel Plant 1
Bad Friedrichshall, Germany

Gerhard Hänel founded Hänel Office and Industrial Storage Systems in 1953. By 1957 Hänel was series-producing filing carousels based on the Ferris wheel principle – the first manufacturer in Europe to do so.

Today Rotomat® carousels and Hänel Lean-Lifts® are produced in three manufacturing plants – and exported worldwide. Hänel has distribution partners in over 60 countries throughout the world.

Innovation and performance, dynamics and ideas, new technologies and team spirit have made Hänel one of the leading providers of storage and organization systems.



Hänel Precision Gears
Bad Friedrichshall, Germany



Hänel Plant 2
Wiesentheid/Bavaria, Germany



Hänel Plant 3
Altstätten SG, Switzerland





High-tech production for high-end demands

Highly qualified specialists implement the ideas of the planning engineers using cutting-edge manufacturing techniques

The linchpin of the production facility is the modern storeroom for sheet metal pieces which is situated centrally in the plant. From here the unworked metal sheets and also sub-assemblies are fed automatically to the machining centers and then returned to buffer storage.

The punching and laser work on the sheet metal pieces needed for production is carried out on TruMatic and TruPunch machines from the company TRUMPF. Automatic loading systems are available to feed the machines.

In order to guarantee the consistently high quality of Hänel products, state-of-the-art welding procedures are carried out by fully automated precision robots in a welding center developed specially for Hänel.

To ensure we can produce the high number of containers required, we use high-efficiency bending machines with robot technology.

Responsibility for the environment

It goes without saying that production at our three plants meets the latest environmental guidelines. Only environmentally friendly, recyclable materials are used.



TRUMPF TruPunch 5000 – one of the most modern punching machines in the world



Fully automated welding center designed specially for Hänel



High-efficiency bending machines with robot technology





Quality and leading-edge technology

Hänel Office and Storage Systems

Products such as the Rotomat[®], the Lean-Lift[®] or the Multi-Space[®] set the benchmarks for the automated storage technology sector

These dynamic storage systems are designed according to the vertical carousel and conveyor principles, which mean goods to man and not man to goods. The compact design enables maximum storage capacity to be created on a minimal footprint by making use of the available room height.

Modern Hänel microprocessor control systems provide continuous inventory update and accurate inventory control. They can be used as stand-alone storage management systems or communicate with customer IT systems.

With its numerous inventions, Hänel Office and Industrial Storage Systems has made a significant contribution to the success of vertical carousels and vertical lift modules in the sector of automated materials handling. This success is yet another incentive for our team to offer future-oriented solutions for intralogistics based on continuous further development.

Hänel offers tailored intralogistics concepts for all needs – from small businesses to major industrial enterprises!

Live presentation of Hänel storage systems in the Demo Center, Bad Friedrichshall





The Hänel Rotomat® principle 'Vertical carousel technology' – simply ingenious

The principle is simple.
Its applications are brilliant



Hänel Rotomat® office carousel – the right file is found
among thousands of hanging folders in seconds



Hänel intralogistics solutions offer small and
medium-size enterprises an affordable entry to
efficient storage management. Here we have a
Hänel Lockomat® and a Hänel Lean-Lift® for
tool storage

The compact design of the Hänel Rotomat® enables **up to 60% more storage area** to be created on a minimal footprint by making use of the available room height.

The structural design

Self-supporting steel plate casing, comparable to the cellular structure used in the aircraft industry. Lockable, smooth-running sliding doors. Environmentally friendly powder coating, as well as impact-resistant and shock-proof stove enamel finishes. There are five attractive colors to choose from. Customized finishes are possible.



The operating principle

The Hänel Rotomat® creates an enormous amount of storage volume on a small footprint. It works on the Ferris wheel principle, i.e. the goods come to the operator, not the operator to the goods.

Hänel Rotomat® office carousels

**The optimal filing systems
for office and administration**

**Hänel Rotomat® storage carousels
Top order-picking performance
due to short travel paths**

Hänel Lockomat®

Safe and secure retrieval



Vertical technology – simply brilliant

The Hänel Lean-Lift® and the Hänel Multi-Space®

The Hänel Lean-Lift® with height-optimized storage lets the air out of your store!

The automated 'high-bay warehouse in a cabinet'

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

A highlight of the Hänel Lean-Lift® is the height-optimized storage concept. When the container is drawn in, the highly accurate light barriers measure the articles, and the Hänel

microprocessor control system finds the optimum storage location in the Hänel Lean-Lift®.

With its height sensors, the Hänel profile wall and space-saving slot design, the Hänel Lean-Lift® utilizes the available storage volume extremely efficiently.

This ingenious principle finds applications in a wide variety of industries. Used in the medical technology sector and electrical engineering (for which ESD versions are possible) and also in the automotive, aircraft and pharmaceutical industries as well as in mechanical engineering, the mail-order and wholesale trades – the Lean-Lift® is the ideal buffer, dispatch, production or tool store, to name but a few areas that demonstrate its versatility.

Hänel also offers small and medium-size enterprises an affordable entry to efficient storage management with its intralogistics solutions.

Our specialists would be happy to show you references from your line of business – just send us an inquiry!



In this injection molding facility, a vast amount of floor space was freed up by storing tools in a Hänel Lean-Lift®

Intralogistics in a new dimension – Hänel Multi-Space®

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 Hänel Multi-Space® can even be varied in width and height once installed – an innovation from Hänel!

The new definition of vertical lift technology from Hänel!



Two Hänel Multi-Space® units, each almost 393.10' wide, constitute the central store for the production hall

Our strength lies in our know-how

Hänel Control and Software Technology

Hänel's microprocessor control units and inventory management software enable efficient, rationalized workflow

Hänel sets the standard for control systems

Object-related, practice-oriented microprocessor control units can offer you a complete storage management system. The modern design and intuitive handling are exemplary. A complete range of storage management features is already integrated in the controllers.

Efficient and transparent storage is possible without an additional PC. And of course the Hänel storage units can be integrated into the customer's IT system.



Hänel microprocessor controller MP 12 N with touchscreen technology – 4 storage strategies in one control system

Connection to enterprise resource planning systems is no problem. Hänel also offers software solutions for individual requirements.

Hänel software systems rationalize storage operations and provide optimal transparency in the storeroom!

For every application there are powerful software packages that can be tailored to each customer's needs thanks to useful configuration options and a range of standard modules.

Storage management

Control software

for Hänel storage systems networked with HOST-supported ERP systems.

Tool management

Storage management

with Hänel storage systems – from incoming goods to dispatch.

Talk to our specialists – we would be happy to advise you!



Hänel offers software solutions for individual requirements

Quality signed and sealed

Innovative developments and state-of-the-art production technology

Hänel – a company committed to top quality

Quality starts with consulting

No two Hänel lifts are the same. Simply because each task requires a unique approach.

That's why, at Hänel, high quality of consultancy takes first place alongside product quality. On the basis of your requirements and our experience we develop a complete solution tailored to your needs.

Despite automation, the focus at Hänel is on people. They are the ones who coordinate the different production steps and monitor quality constantly.

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) to achieve this distinction.

And in 2014 once again the process-oriented quality management of Hänel was acknowledged by the technical control board TÜV Hessen with the current DIN EN ISO 9001:2008 Certificate.



Ideas that move the world...

Cutting-edge technology 'Made by Hänel'

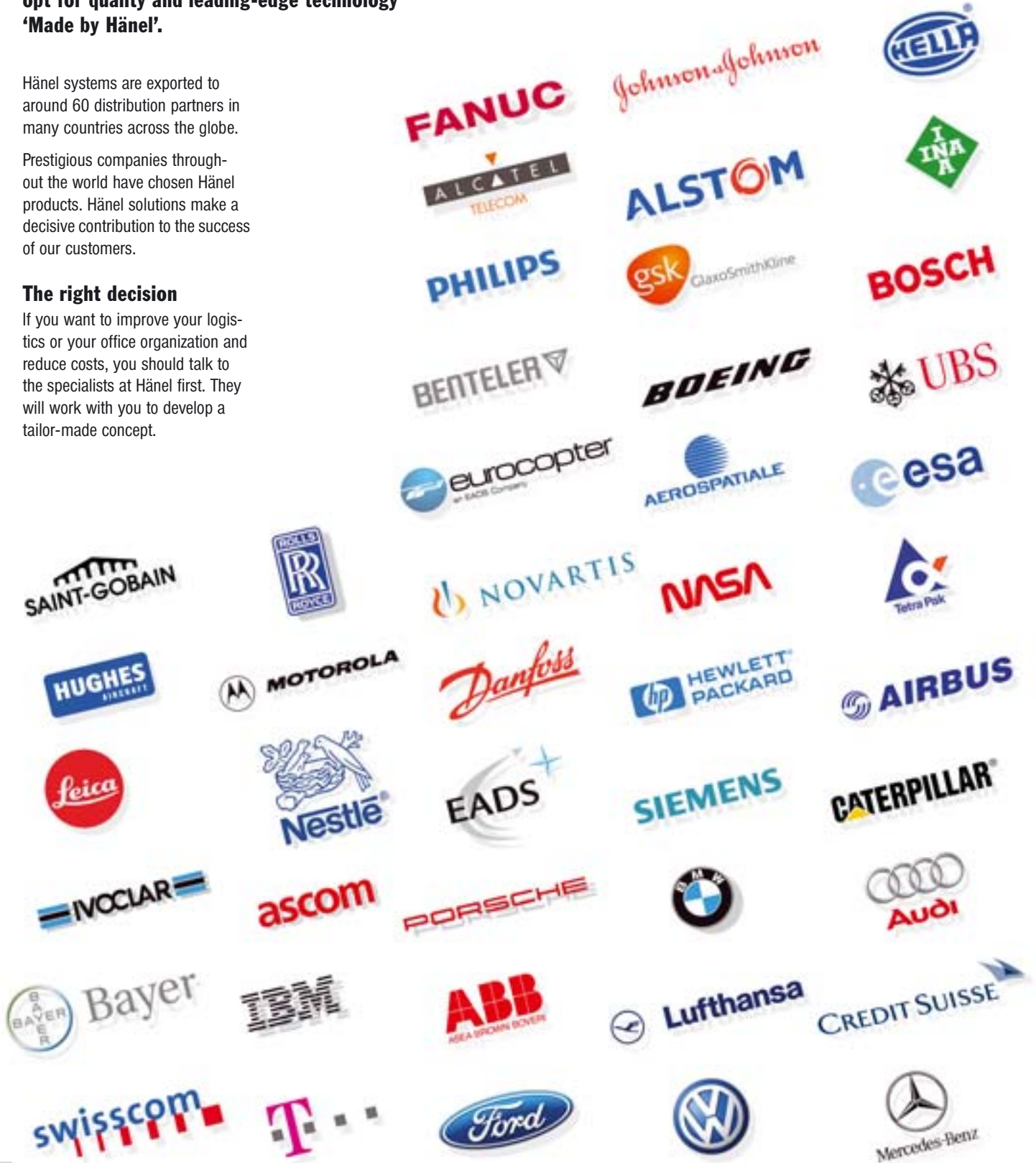
Throughout the world successful companies opt for quality and leading-edge technology 'Made by Hänel'.

Hänel systems are exported to around 60 distribution partners in many countries across the globe.

Prestigious companies throughout the world have chosen Hänel products. Hänel solutions make a decisive contribution to the success of our customers.

The right decision

If you want to improve your logistics or your office organization and reduce costs, you should talk to the specialists at Hänel first. They will work with you to develop a tailor-made concept.



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® storage 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 Lockomat®

The Hänel Lockomat® 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 Lockomat® 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/354.33" 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. HänelSoft® for example is a powerful software package that can be tailored to any customer's individual needs.

Hänel

Storage Systems

121 Industry Drive
Pittsburgh, PA 15275
Tel. +1 (412) 787 - 3444
Fax +1 (412) 787 - 3744
E-Mail: info@hanel.us
www.hanel.us

Hänel

Büro- und Lagersysteme

P. O. Box 11 61
D-74173 Bad Friedrichshall
Tel. +49 (0) 71 36 / 2 77 - 0
Fax +49 (0) 71 36 / 27 72 01
E-Mail: info@haenel.de
www.hanelworldwide.com

Hänel

Büro- und Lagersysteme

Bafflesstrasse 21
CH-9450 Altstätten SG
Tel. +41 (0) 71 757 30 80
Fax +41 (0) 71 757 30 85
E-Mail: info@haenel.ch
www.haenel.ch

Hanel Systèmes

Europarc · 139, Chemin des Bassins
F-94035 Créteil Cedex
Tél. +33 (0) 1 45 13 96 10
Fax +33 (0) 1 45 13 96 13
E-Mail: hanel@hanel.fr
www.hanel.fr

Hänel

Kantoor- en Magazijnsystemen

Nieuwland Parc 13a
NL-2952 DA Alblasserdam
Tel. +31 (0) 78 / 890 76 50
Fax +31 (0) 78 / 890 76 59
E-Mail: info@haenel.nl
www.haenel.nl

