

# Time and space<sup>2</sup>

Experience the future of modern dynamic storage systems today:

Solutions by Kardex Remstar to optimize your intralogistics



# Systems by Kardex Remstar:

Dynamic, practical, economical – for more space in production and warehousing

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Your reliable partner for automated  
storage and retrieval systems



## Automated storage and retrieval systems to optimize your warehouse capacity and productivity.

Whatever goods you store – a reliable and efficient storage and retrieval system significantly reduces personnel resource requirements and warehousing costs. Irrespective of whether your system is operated manually or automatically.

From efficient hardware through to fully integrated systems: we develop and install storage and retrieval systems tailored to your individual requirements. Each of our products stands out due to its high productivity, performance and safety,

optimized space utilization, enhanced ergonomic design and efficiency. These are benefits that secure long-term economic efficiency and your success. You will soon come to rely on them completely – every day.

Do you want an example? All vertical and horizontal systems from Kardex Remstar run on the "goods to person" principle. This allows goods to be retrieved quickly and minimizes picking times and paths.

### Larger warehousing area, better access times

- Increase space utilization efficiency by up to 85% percent.
- Raise access accuracy to up to 99 percent.
- Improve picking productivity by up to 400 percent.
- Achieve stock accuracy of up to 99 percent.



Further information:  
[www.kardexremstar.com](http://www.kardexremstar.com)

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# Kardex Remstar: High-end technology for storage and retrieval solutions – Worldwide



**Kardex Remstar:  
Bellheim/Germany**



**Kardex Remstar:  
Neuburg/Germany**

**Kardex Remstar Software  
Solutions are developed at  
our competence center in  
Wörth, Germany.**

Customized and flexible solutions to secure your success.  
In every branch of industry.



## Professional storage and material flow solutions – Your recipe for success for greater productivity and profitability.

We love a technical challenge – and always strive for perfection.

We continuously develop our innovative systems since our prime aim is for them to meet the highest requirements. Our track record is highly successful: We have already installed over 140,000 systems in the "Office", "Warehousing" and "Commerce" segments.

Kardex Remstar is one of the world's leading manufacturers of storage and retrieval systems. Each system is specially designed with integrated technical sophistication and efficient, well thought-out concepts – they all have the aim of increasing your productivity and making your work processes more efficient.

Our tailor-made storage and picking solutions allow you to use your storage capacity optimally and achieve significant savings when handling your goods. The degree of automation can be selected to fit your business processes precisely in production, manufacturing and distribution – ranging all the way through to fully automated robot-assisted systems.

### Represented worldwide

Global thinking means being and thinking everywhere. Our market is the global market. Our customers often operate on an international scale or are

global players with worldwide activities. Kardex Remstar adapted itself to this situation very early on. We are where you need us – we have subsidiaries and agencies in almost all countries of economic importance in the world and they keep us in close proximity to our customers. But we go one step further: as part of the Kardex Group, which has over 2200 employees, we are capable of transferring our expertise to you in the form of service, support and training.

### Quality and safety

We want to fulfil your expectations in every way – because we know that sustained quality creates trust in a company. This is why we make great demands on ourselves. All systems manufactured by Kardex Remstar are subjected to the strictest quality guide-lines in Bellheim and Neuburg (Germany).

Our products are certified to the following standards, among others:

- DIN EN ISO 9001 and 14001 for systems made by Kardex Produktion Deutschland GmbH
- UL-tested and approved
- Compliant with CE norms
- RAL quality standards in Germany
- Certified to TÜV-GS and TÜV-NRTL

## Automotive

Material flow, tool retrieval in production

## Electronics

Storage under controlled conditions

## Chemicals/ pharmaceuticals

Robot-assisted systems, process reliability, A/C and cleanroom conditions

## Warehousing/ distribution

Small parts picking

## Mechanical engineering

Buffer store, tool store, parts feeding

## Hospitals

Fully automated systems across several stories

# Intralogistics and innovation: Harness the optimization potential of your internal logistics



## Systems from Kardex Remstar support all kinds of order picking: ergonomic design, time and space saving.

Retrieval, control and packing into shipping containers are combined into one work operation.

Handling steps can be minimized even more using a combination with modern conveyor systems. Turnaround times are optimized by installing modern warehouse management software, for example FastPic5.

By randomly allocating storage locations, it is possible to perform two-stage picking. Storage can take place simultaneously and the error rate for storage and retrieval is minimized.

Plan, control and monitor excellent logistics processes.  
With Kardex Remstar.



## Intelligent product handling and optimized production logistics: your competitive edge!

Excellent logistics processes are expressed in the form of low stock levels, short supply times, on-time delivery and low logistics costs. For manufacturing companies, the task is to plan, control and monitor logistics processes with a very high degree of precision.

The precise application of Kardex Remstar systems in production permits the safe ergonomic handling of heavy tools or molds centrally on the production machines. The frequent change of variants in small batches is no longer a problem and set-up costs are minimized.

It is even possible to install the systems in the direct vicinity of production machines. The parts for machining are supplied by the Shuttle XP using automatic attachments, robots or conveyor units.

Further information:  
[www.kardexremstar.com](http://www.kardexremstar.com)



# Kardex Remstar Shuttle® XP:

The intelligent dynamic storage lift system for high density storage in a compact footprint





# Kardex Remstar Shuttle XP: Optimized utilization of storage space in a compact footprint



## The Kardex Remstar Shuttle XP is an automated high bay warehousing system with a modular design operating on the "goods to person" principle.

Optimum storage density, flexible efficient storage strategies and safe fatigue-free working: the Shuttle XP combines unique specifications to produce one system that precisely meets individual local requirements and conditions. Its success recipe in a nutshell: efficiency through CubeStar technology.

### Optimized storage density

The user can assign the maximum storage height to every shelf. The smallest storage spacings in the high bay warehousing system are achievable by using almost stepless pitches with a spacing of only 1 inch (25 millimeters). Using an electronic height measuring system, all stored goods are measured automatically and stored accordingly. Higher items are detected during storage and indicated by a message

on the operator panel. An intelligent control system that moves at speeds of up to 7.5 feet (2.3 meters) a second allows controlled access to the stored goods.

### Flexible efficient storage strategy

The modular design of the Shuttle XP ensures almost unlimited flexibility in the utilization of various room heights. The Shuttle height can be chosen in 4 inch (100 millimeter) steps, so that the Shuttle XP always meets the capacity and height requirements to an optimum extent. Even if you change locations or move to a different site, it can be adapted quickly to the new requirements by adding or removing modules.

### Adapting to the building situation

When installed through several floors, access openings can be integrated at any point on the front or rear of the Shuttle XP. They can even be changed at a later date. The shutter door in every access opening prevents draughts, reduces travel noise – and also protects the operators and stored goods.

### Standalone or integrated system

Every Shuttle XP can be installed as a stand-alone system or expanded into an integrated system – for plannable expansion as a needs-related and manageable investment for the future.



# Solutions from Kardex Remstar:

## For short access times and more storage space with different dimensions

### Technical data

#### Unit dimensions

Width	5.2 feet to	14.4 feet
Depth	7.6 feet to	14 feet
Height	8.4 feet to	98.6 feet

#### Unit height pitch

4 inch steps

#### Performance data

Vertical speed adjustable up to 6.6 feet per second

Storage/retrieval speed adjustable up to 7.5 feet per second

Gross loading capacity max.  
147,700/264,550 lbs (67/120 t)

#### Trays

Width	4.1 feet to	13.3 feet
Depth	2 feet to	2.8 feet
Adjustment pitch	1 inch	
Tray pitch	3 inches	
Payload up to	1,598 lbs	

#### Options

- Folding table for manual full tray extraction
- Automatic full tray extraction
- Transport cart
- Swivel arm for operator panel
- Pedestal desk for operator panel
- Position indicator with LEDs
- Position indicator with numeric display
- Up to six access openings per unit
- Double access function
- ESD version
- Pallet truck access in front of unit
- Tray locking mechanism
- Two-piece shutter door
- Tray stop in front of access opening
- User administration

1

#### Unit Height

From 8.4 ft to 98.6 ft (2,55 m to 30,05 m); with a pitch of 4 in (100 mm)

2

#### Unit Width

From 5.2 ft to 14.4 ft (1,58 m to 4,38 m)

3

#### Unit Depth

From 7.6 ft to 14 ft (2,312 m to 4,292 m)

4

#### Load profiles

Payloads up to 147,700/264,550 lbs (67/120 t)

5

#### Extractor shaft

#### Trays

The trays can be organized for any stock item by means of customized compartments. The right tray for your requirements:

6

a number of different dimensions are available for various applications. Picking times can be significantly reduced by simply dividing the trays into well-arranged compartments.

#### Access opening with shutter door

7

The access opening is the area in which the tray supplies the goods ergonomically. Each unit can have up to six access openings. Shutter doors in the access openings provide safety for operators and stored goods.

#### Shelf rail modules

8

The side panels of the access opening contain shelf rail modules throughout the complete height. Depending on the height of the operator, the optimum working position can be set to the desired height by means of these modules.

9

#### Light barrier including overhanging goods recognition

Automatic height measuring system; stored goods detection with a pitch of 1 in (25 mm)

10

#### Lift motor / drive

Speeds adjustable up to 7.5 ft/second

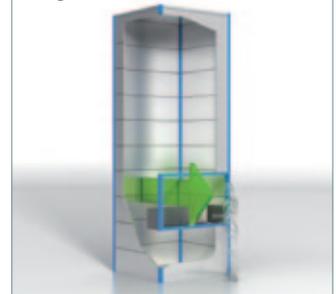
Modular design and an intelligent storage principle – the double benefit for greater flexibility and storage space.



## Other products in the Shuttle XP line:

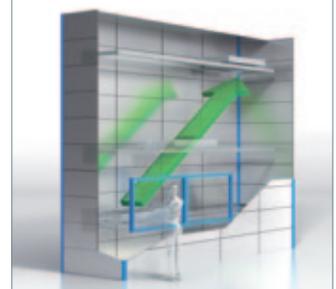
### Kardex Remstar Shuttle XP700

For heavy goods and extreme lengths.



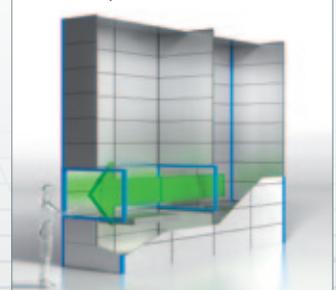
### Kardex Remstar Shuttle XPlus

The fast storage giant  
with a lifting beam.



### Kardex Remstar Shuttle XPmultiple

Optimized space utilization in a  
small footprint.



# Kardex Remstar Megamat® RS:

The best of two worlds:  
the combination of progress and tradition  
in storage technology





# Kardex Remstar Megamat RS: Maximum capacity with the smallest footprint



**The Kardex Remstar Megamat RS is an automated vertical carousel based on the paternoster principle, which uses the "goods to person" concept – perfectly suited for stored goods with a high access frequency.**

New research and development results and increasing requirements for resource and environmental protection are systematically converted into marketable solutions for our customers. Kardex Remstar harnesses its expertise and experience to produce systems that help you make advances in your markets, such as the Megamat system which has been a proven product for many years. We have continuously developed it using the latest production and design technologies and included environmental protection and energy-saving aspects. The result: the Megamat RS.

The Megamat RS meets obligations for the conscious use of resources during its entire life cycle with regard to costs and environmental responsibility. In fact, this starts in production. By improving the static design, we have succeeded in significantly reducing the amount of material used. Compared with the previous version we have achieved weight reductions of up to 50 percent on various components.

Kardex Remstar has introduced a strict environmental management system throughout the entire production process.

In the past few years, a high-efficiency energy management system has been created and integrated into all production and supply processes. This is a commitment that not only pays off, it is also prize-worthy. In fact, Kardex Remstar has won many awards at national level for its resource-saving processes.

Innovations: automatic chain tensioner, reduced power consumption, smooth-running sliding door, modern design.

## The principle

The compact design of the Kardex Remstar Megamat RS ensures maximum storage space using minimal floor space. The system can be easily integrated in the form of a freestanding carousel or as a multi-story combination with several access openings up to a level of 33 feet (10 meters), enabling the greatest possible storage efficiency. This high-density storage concept achieves maximum possible capacity.

Each Megamat can be used as a stand-alone solution or can be connected to a client host system as required. The modular design provides you with maximum investment security for the future.

## Benefit: speed



The Megamat RS runs at high speed to permit rapid access to all stored goods.

## Benefit: individuality and flexibility



The multifunctional multipurpose carriers are adaptable to almost any application. The flexible carrier system permits the efficient storage of a wide variety of goods.

## Benefit: quality and efficiency

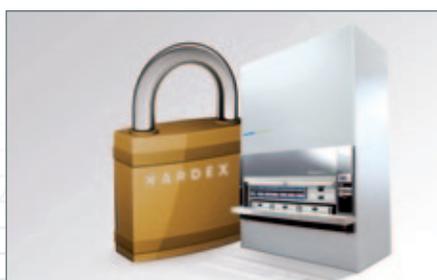


Due to the perfect interaction of electric motor, high-efficiency transmission and fine-tuned-frequency inverter, the Megamat RS today consumes up to 40 percent less power. The result: noticeably lower life cycle costs (TCO).

## The innovative features at a glance:

- Energy-saving drive technology
- Maximum safety with minimum material usage
- Needs-related control concepts for every application – "drive and view"
- Optimized safety systems
- Flexible storage due to a comprehensive carrier concept

## Benefit: safety and security of personnel and stored goods



To ensure the greatest possible safety and security, the new Megamat RS is equipped with four new functions: emergency hand crank, automatic chain tensioner, clip system and smooth running sliding door.

# Clearly arranged, modular, versatile: Convincing benefits for the efficient and safe storage of your goods



1

## More space. Better organization.

- Up to 60 percent more storage capacity
- Well organized storage of small parts
- Positioned at the point of use, rapid access
- Suitable for all customary storage containers and storage bins

2

## Speed and Productivity

- Very high picking productivity
- High running speed
- Optimized utilization and reduction of storage space
- Reduced picking errors
- Short picking times
- Position indication

3

## Individuality and Flexibility

- **NEW:** Modular design
- Wide range of retrofit options
- **NEW:** Carrier concept
- Multiple options
- Stand-alone or integrated solution

4

## Quality and Efficiency

- Noticeably reduced life cycle costs (TCO) – Avoid, not reclaim
- Certified Quality and Environment Management Systems
- Made in Germany – by specialists for automated vertical carousel systems
- World-wide service network: Kardex Remstar Life-Cycle-Management





## Technical data

### Unit Dimensions

Width	from 10.1 ft (3,075 mm)
	to 12.7 ft (3,875 mm)
Height	min. 7.7 ft (2,360 mm)
	max. 32.8 ft (10,010 mm)
Depth	4.2 ft (1,270 mm)
	4.8 ft (1,470 mm)
	5.5 ft (1,670 mm)

### Usable Carrier Dimensions

Width	from 96.5 in (2,450 mm)
	to 127.9 in (3,250 mm)
Height	from 8.8 in (225 mm)
	to 19.3 in (491 mm)
Depth	16.9 in (428 mm)
	20.8 in (528 mm)
	24.7 in (628 mm)

### Unit Imbalance

max.	2,645 lbs (1,200 kg)
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### Load per Carrier

	771.6 lbs (350 kg)
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### Unit Load

max.	27,557.8 lb (12,500 kg)
------	-------------------------

### Standard Colors

Access Opening:	10 different Standard Colors
Panels and carriers:	Light Grey RAL 7035
Other colors available optionally	

## 5

### Safety

- **NEW:** Emergency hand crank in case of power failure
- **NEW:** Clip system for simple, rapid assembly and greater system stability
- Access control
- Optimized protection for personnel and stored products



## 6

### Ergonomic Design

- "Goods to person" principle
- "Drive and view"
- Optimized user-friendliness
- Multifunctional profile; customized attachment for operator controls and accessories
- **NEW:** Ultra-smooth sliding doors

## 7

### Technology

- Modern design
- **NEW:** Low-wear operation by using automatic chain tensioner
- Modern endurance-tested materials
- Unit control using optional FastPic5 storage management system

## 8

### Investment Security

- Long service life
- **NEW:** Retrofit and conversion packs to change application
- Kardex Remstar: your reliable partner
- Get tomorrow's technology today

# Kardex Remstar® Horizontal:

Maximum storage capacity and rapid retrieval in a horizontal direction





# Kardex Remstar Horizontal: Maximum storage capacity and rapid retrieval in low room heights



**The Kardex Remstar Horizontal permits safe and fatigue-free working. The system is expandable as necessary – it is therefore a safe investment for the future of your company.**

The Horizontal is an automated horizontal carousel storage system. It has been successfully installed in a large number of companies and has heights of up to 13.5 feet (4.1 meters), lengths up to 202 feet (61.6 meters) and payloads of up to 120,000 lbs (55 tons).

#### **Efficient picking station**

Depending on the installation size and conception, a number of different unit applications are possible. The **dual station** with its access openings arranged in parallel or at right angles to each other can be operated comfortably by just one person.

In a **triple station**, the layouts are normally in L or U shapes; **the quadruple station** is recommended when there is a wide range of items with a high access frequency.

#### **Multilevel station**

Two or three Horizontal carousels are stacked one above the other. The access and picking stations are located at floor level and on each platform. Each level operates independently. To connect the levels, conveyors can be used to continue the material flow.

#### **Tall station with lifting platform**

The Horizontal Tall Station offers optimized utilization of the available room height up to 14.8 feet (4.5 meters) with an almost limitless number of combination options. A lifting platform always brings the operator to the correct height for ergonomic access. To optimize time management, the installation height is divided into access zones by the storage management software. All items within a zone are provided before the lifting table moves to the next access zone.

## Save time through rapid, direct and safe access: Kardex Remstar Horizontal always takes the shortest path.

### The principle

The "goods to person" principle eliminates unproductive travel and search times, allowing rapid, direct and safe access. The Horizontal always takes the shortest path to the access opening. An LED display indicates the relevant storage location. Using software solutions from Kardex Remstar, high picking rates can be achieved.

Several horizontal units can be operated by only one person and this reduces waiting times to a minimum.

### Benefit: optimized picking



Paperless picking is possible without changing the business processes. The warehouse management system combines several orders into a picking batch via PC control to reduce the number of drive cycles.

### Benefit: flexible adjustment



Different items can be stored in the horizontal carousel. There is also space for bulky items – up to the entire carrier height.

### The benefits at a glance:

- Permanent goods access
- Waiting times are reduced to a minimum
- Greater accuracy through software-controlled pick-to-light systems
- Greater customer satisfaction through enhanced processes

- Greater customer satisfaction through enhanced processes
- Greater accuracy through software-controlled pick-to-light systems
- Permanent goods access

### Benefit: high payloads



The Horizontal is capable of storing items with a maximum payload of 60 tons. Every carrier can be subdivided in height by adjustable shelves. The load-bearing capacity is chosen according to the application.

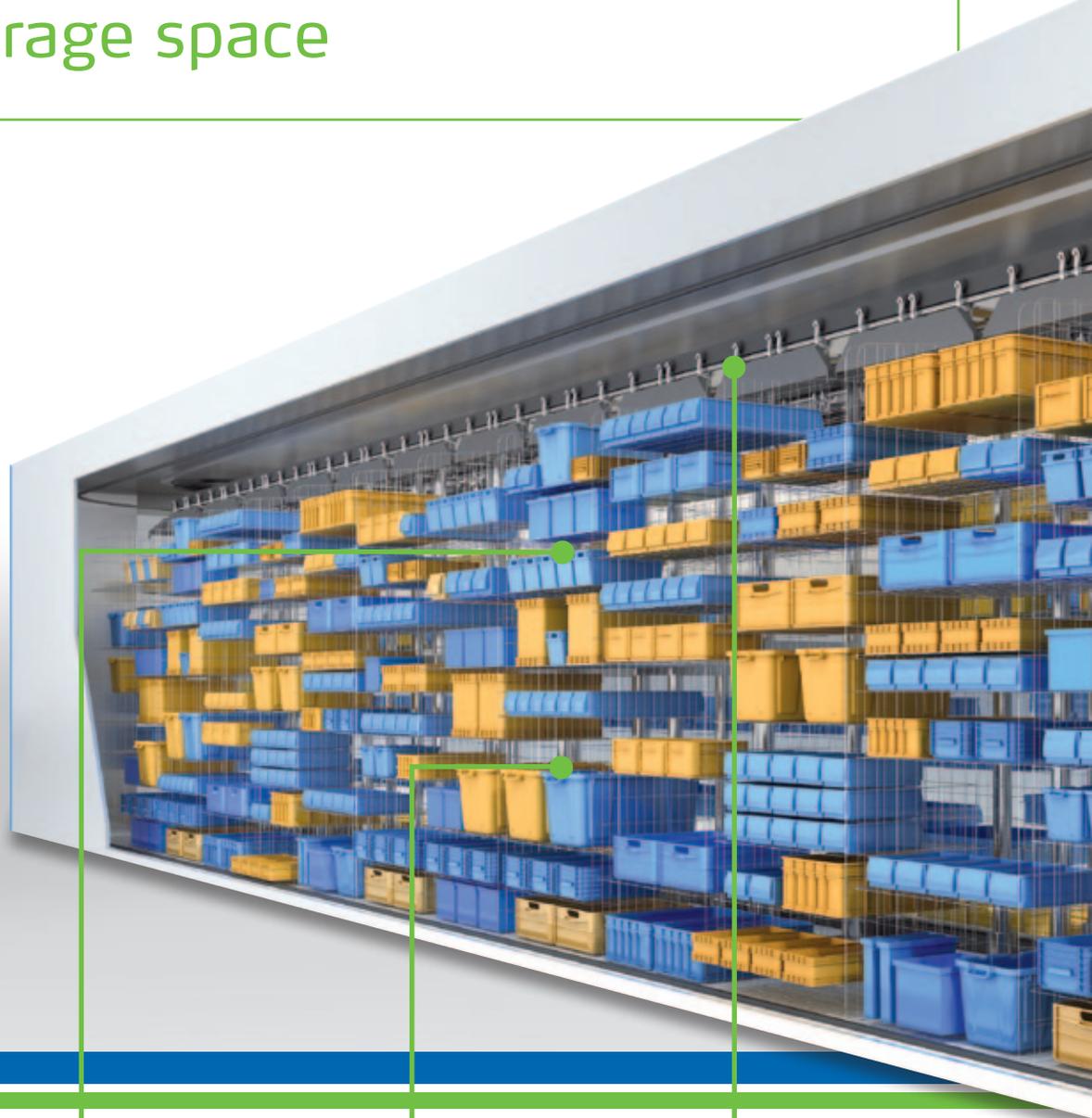
### Benefit: save space



Items are stored compactly in a confined space. Turn and order picking aisles are eliminated. Storage and retrieval takes place at a central and optimally located position.

# Horizontal carousel:

## Now discover the horizontal dimension of your storage space



1

**Carrier payload:**  
600 lbs (272 kg)  
1,000 lbs (454 kg)  
1,500 lbs (682 kg)

2

**The useable carrier height is between 6 ft and 12 feet (1.8 m and 3.6 m)**

3

**Robust, reliable and low-maintenance unit due to its self-lubricating bearings.**



**4**

The Horizontal Carousel can be between 7.2 ft and 13.5 ft (2.2 m and 4.1 m) high and between 19 ft and 202 ft (5.8 m and 61.6 m) long.

**5**

The motor inside the unit allows access on multiple floors.

**6**

Rotational speed: 78.7 ft (24 m) per minute.

**7**

Optional Doors Available

# Intelligent, flexible, modular – Storing and picking at the highest level

5

10

11

## The benefits at a glance:

- More storage capacity in a much smaller footprint
- Reduced access times
- Rapid safe access through efficient warehouse management
- Increased goods handling
- Accurate inventory levels through incorporation in internal ERP system
- Greater safety for operators and goods
- Individual customer service

1

### Order Input

Orders are received in writing, by telephone, fax or e-mail.

2

### Order Processing

After the order has been received, it is registered and processed.

3

### ERP system

The ERP system immediately verifies the availability of items.

4

### FastPic

The customized software solution reports on availability and sends a retrieval command to the Shuttle.

5

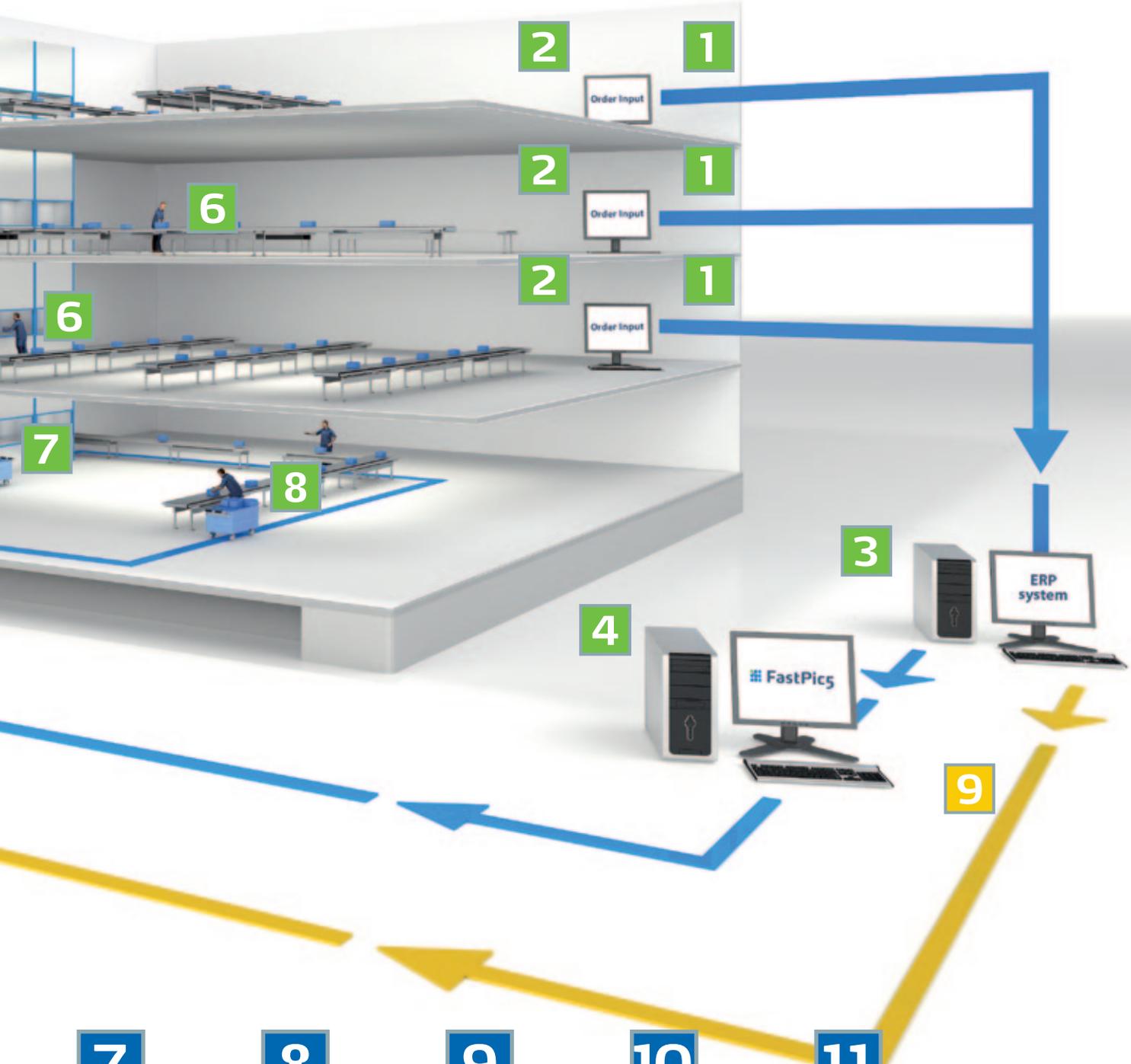
### Goods provision

The tray containing the goods is sent to the required floor.

6

### Goods retrieval

The operator removes the goods from the Shuttle.



**7**

**Barcode scan**  
Goods retrieval is confirmed by a barcode scan.

**8**

**Goods shipment**  
The goods are sent directly to Dispatch.

**9**

**Minimum stock report**  
When a predefined minimum level of items is reached, a report is sent to the ERP system.

**10**

**Goods ordering**  
The ERP system automatically sends the order to the central warehouse.

**11**

**Restocking to maximum level**  
The goods are delivered and stocked-up to achieve maximum stock levels.

# Kardex Remstar FastPic<sup>®</sup> 5: The software innovation for controlling storage and retrieval solutions



## **Kardex Remstar FastPic5 optimizes your intralogistics operations and achieves a high level of efficiency and customer orientation.**

For over 25 years, Kardex Remstar has been developing and implementing software solutions for complex logistics tasks to meet the high requirements in your company. Warehousing systems and software combine to become integrated attuned systems.

Our competence and experience now come to your company with a new software generation: FastPic5. This modern and user-friendly software, which we subject to continuous development, supplies you with the capabilities of handling your future intralogistics requirements. No matter what branch of industry your company is in, no matter what application FastPic5 is used for. We round off our portfolio with services such as consultancy, installation, support, special programming and a 24/7 hotline.

### **Warehouse control**

The core of an inventory management system is the correct identification of goods, their allocation to orders, better utilization of storage capacity and optimized forwarding to the correct destination. Integrate your automated warehousing technology completely in your processes with modern equipment such as Horizontal, Megamat RS or Shuttle XP and FastPic5.

You can also manage non-dynamic systems, such as high bay warehouse systems using our software – every technology is linked to its specific benefits. In this way, you can make the best possible use of the space available in your warehouse.

### **Stock control**

Having full control over goods at all times is the main function of inventory management software. FastPic5 gives you the complete overview, not only of specifics such as FIFO, serial and lot numbers or shelf life, you can also verify your stock at regular intervals using the software-assisted inventory process and manage several clients without having to block off part of the warehouse.

### **Space optimization**

Simply installing storage and retrieval systems from Kardex Remstar will improve the capacity utilization of your storage space by up to 35 percent. If you integrate FastPic5, you will increase this percentage by another level of magnitude – for example through the use of special algorithms to optimize height and weight combined with various storage location and zone strategies.

Functional, user-friendly and much more – so many reasons for having FastPic5.

## Functional principle of Power Pick Global



## Functional and user-friendly Warehouse Management Software with modular structure.

### Efficiency

Integration of the Power Pick Global software into your processes helps you to increase productivity times. It allows you to optimize batch orders, multiple order picking and time-optimized movement of storage systems to maximize up time and increase throughput.

### Accuracy

From the standard validation via barcode, handheld scanner or weight control to a wide range of others such as Pick-to-Light, Put-to-Light, Laser/LED Pointer: Kardex Remstar Power Pick Global reduce operator errors and increase picking accuracy to levels up to 99%.

### Security

Thanks to the software integration, user and group rights can be controlled and managed; each access to the system can be tracked.

### Integration

From easy "Plug and Play" and middleware to customized solutions – all Power Pick Global software solutions are based on the latest Windows® technology\* and can interface with the majority of tier one and tier two WMS and ERP providers.

### Modularity

From the smallest store to a complex distribution center: Power Pick Global can be perfectly tailored to your requirements – with future security included in the package. This is because we carry out continuous development and expansion of the Power Pick Global system.

\* Windows® is a registered trademark of the Microsoft Corporation.

## Kardex Remstar offers a wide portfolio of software applications:

- **Cleverstore 1000**  
Software solution for simple storage and supply
- **Smartpick 6000**  
Software for professional picking with high pick rate
- **Smartpick 5200**  
Professional picking with high pick rates – specially for electronics industry

electronics industry  
high pick rates – specially for  
professional picking with  
– smartpick 5200  
high pick rates

# The Kardex Remstar service principle: 3 levels for your success – and more efficiency, sustainability, safety



**Kardex Remstar is always there for you – with over 500 factory-trained technicians available 24 hours per day, 7 days a week... this is Kardex Remstar's service commitment to you. To achieve this, we have devised three practical service packages for you:**

## ESSENTIAL

The ESSENTIAL service sets the foundation stone for a long-term and efficient operation of your dynamic storage systems. Qualified service technicians integrate Kardex Remstar expertise to protect and retain the value of your machines.

## PLUS

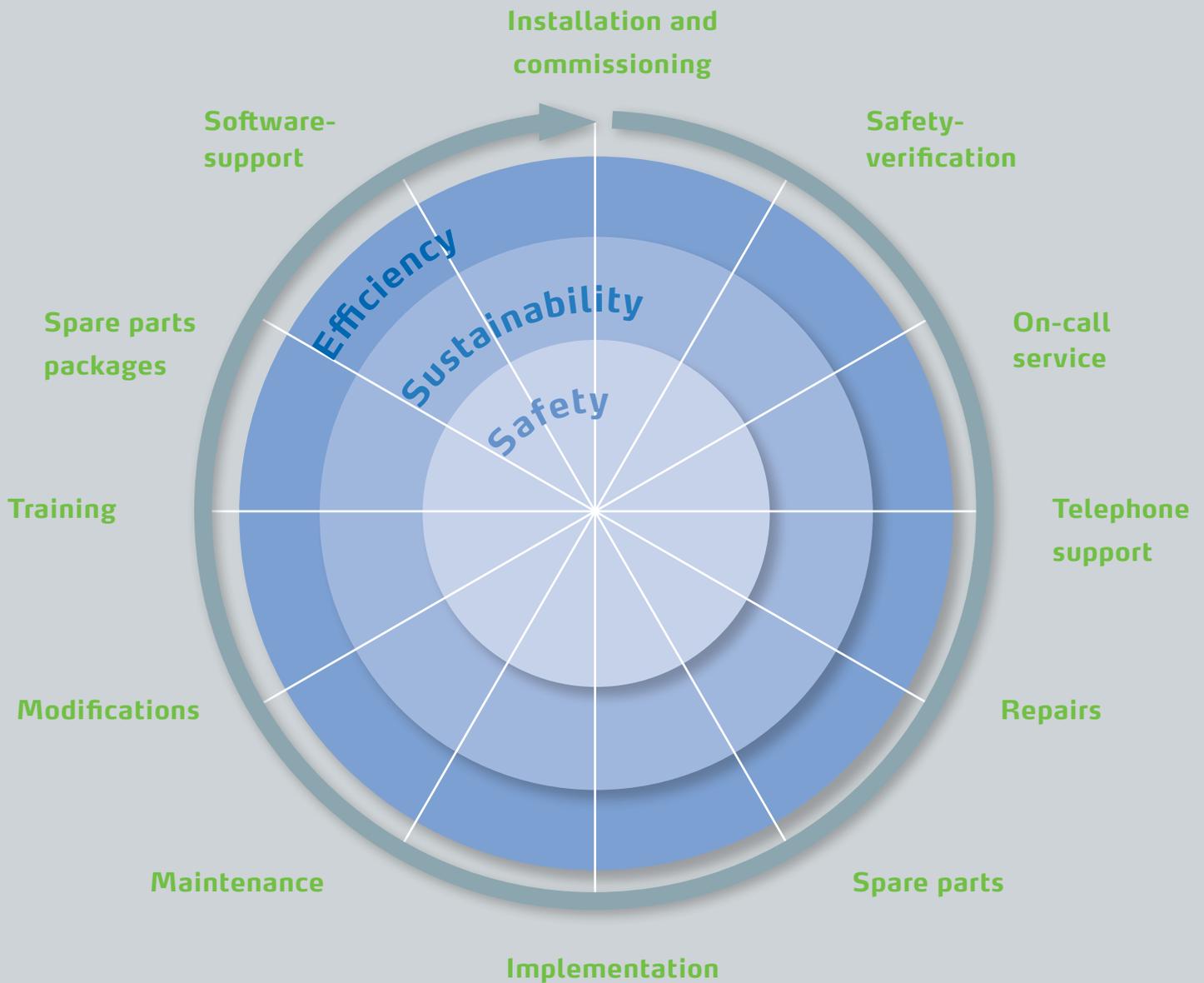
The PLUS Service secures the sustainability and economic efficiency of your dynamic storage systems. In addition to maintenance, priority-based telephone support with 365/24/7 availability and an efficient spare parts management system are the supporting pillars of the PLUS Service.

## EXTRA

If you require a little bit more, the EXTRA Service package is just right for you. Active maintenance management, implementation, modifications, training courses and regular software support make our services into a complete all-round package for you.

We stand behind our products by offering one of the most extensive & comprehensive warranties in the industry.  
Ask us about our warranty today!

Active management over the complete life cycle of Kardex Remstar intralogistics solutions.



Further information:  
[www.kardexremstar.com](http://www.kardexremstar.com)

#### Do you want more service?

No problem:  
Our service management will develop an individual concept together with you.  
Give us a challenge!

# Kardex Remstar Special Solutions: Storing and picking in controlled ambient conditions



## Competence to achieve the highest technical and qualitative standards – Kardex Remstar storage systems for air-conditioned, dry and cleanroom conditions.

Dry, air-conditioned, clean – or all at the same time? Room in room or free-standing? No problem. Systems from Kardex Remstar can store your products under controlled conditions. They can be positioned as required without any structural restrictions and can even be attached to existing cleanrooms - for example, only the access opening is located in the cleanroom.

### Kardex Remstar Dry Solution

- 10 percent relative humidity achieved by nitrogen flushing
- 5 percent relative humidity achieved by adsorption drying
- ESD-compatible design

### Kardex Remstar Clima Solution

- store deep frozen down to  $-20^{\circ}\text{C}$  (cold storage in hygiene design)
- store at high temperatures up to  $+70^{\circ}\text{C}$
- $\pm 1^{\circ}\text{C}$  temperature consistency

### Kardex Remstar Clean Solution for cleanrooms

- Up to Class 10,000 Cleanroom
- Constant temperature  $\pm 1^{\circ}\text{C}$
- Overpressure/vacuum
- Smooth surfaces
- Hygiene design

### The benefits at a glance:

- Low operating costs.
- Maximum security through traceability.
- Absolute safety for the storage of sensitive parts.
- Lower investment costs compared with conventional solutions.
- Room-in-room solutions, independent cells can be located in grey area.
- Flexibility with free positioning, no structural restrictions.

# Kardex Remstar Office Solutions: Customized document management saving space, time and costs



**Kardex Remstar is also a specialist for document management that saves space, time and costs - for files, cards and information carriers of all types.**

### Perfection in detail

The right hardware in combination with optimized accessories produces the ultimate solutions for needs-related and future-oriented systems – backed by Kardex Remstar competence and our extensive application expertise in your markets.

### Image acquisition and processing

The increasing trend towards computer-assisted systems for document management has now become an indispensable part of corporate infrastructures. As before, the information flow is neither completely paper-based nor completely electronic. Even the office of the future will not be paperless. This reveals the necessity for solutions that link the analogue with the digital world.

### Professional services on demand

The document service offers you the opportunity to call on our professional and efficient services at short notice. The services of our team and their comprehensive support ensure you can react rapidly to changing requirements.

### Office solutions at a glance:

- Kardex Remstar Lektriever
- Kardex Remstar Times Two
- Mobile shelving systems
- Archiving requirements
- Fire protection
- Image acquisition and processing
- Document service

### Kardex Remstar Lektriever®

The Lektriever is a software-controlled automated media storage system that is capable of managing thousands of files, videos, CDs, DVDs etc. It can operate off-line or can be linked online to our IT systems. Operation is simple and user-friendly: the Lektriever automatically searches for each required medium at the press of a button.

### Kardex Remstar Times Two

The Times Two is a double sided shelving system that requires very little space. The actual shelf space is accommodated in a rotating cube within a static housing. The front and rear are easily accessible at any time to replace or retrieve folders.

# Kardex Group:

## Your reliable partner for automated storage and retrieval systems



**kardex**group

**The Kardex Group is one of the world's leading manufacturers of automated warehouse and office logistics systems.**



Our organization is specialized in the development of innovative products, services and customer consultancy. In close cooperation with you, we work towards strengthening your competitive position significantly by exceeding your expectations and requirements.

Through the successful implementation of our business aims, we offer our employees a portal full of opportunity and prospects for challenging and lively careers.



## kardexremstar

Kardex Remstar is one of the world's leading manufacturers of automated storage and retrieval systems. Since 1973, we have installed over 140,000 systems successfully in the "Office", "Warehouse" and "Commerce" segments.

Each of our products has been developed with the aim of increasing your productivity and improving the efficiency of your work processes. Our tailor-made solutions allow you to make the best use of your warehouse space.

## kardexmlog

Mlog Logistics GmbH, with its head office in Neuenstadt am Kocher, is one of the leading providers of automated storage and material flow systems. Since May 2010, it has been part of the Kardex Group and has over 40 years of experience in the planning, implementation and maintenance of fully automated logistics solutions. Whether modernization in service is required or the installation of new turnkey installations, Kardex Mlog has the best logistics concept for your high bay warehouse.

Thanks to innovative and proven products and complete logistics concepts based on experience gained from more than 800 successfully implemented projects, Kardex Mlog can respond to your requirements quickly and flexibly.

# Kardex Remstar: Always close to you – Worldwide



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**Further information:**  
[www.kardexremstar.com](http://www.kardexremstar.com)