

# Kardex Remstar Megamat® RS

Automated, vertical carousels for efficient, tailor-made storage and retrieval processes



# Kardex Remstar Megamat RS: The best of both worlds. The fusion of progress and tradition in storage technology



**The Megamat RS is an automated vertical carousel using the paternoster principle. It uses the “goods to person” concept for goods with a high picking frequency.**

## **Principle**

Based on the way in which a paternoster works, the Megamat RS is an automated vertical carousel that provides quick and precise access to stored goods. The Megamat RS is especially suitable for frequently accessed goods, because it conveys the right carrier to the access opening via the shortest possible path. The design of the Megamat RS offers maximum storage space on a minimal footprint. This facilitates efficiently designed work processes and also significantly raises productivity. The Megamat RS can easily be installed as a freestanding vertical carousel or integrated into a building over several floors up to a height of ten metres with more than one access opening. Each Megamat RS can be used as a stand-alone solution or connected to a networked system, there-

by ensuring supreme efficiency, flexibility and individuality. The Kardex Remstar Megamat RS is a secure investment in the future.

## **Energy-saving technology**

Instead of recovering energy, avoid using it in the first place. Thanks to the perfect interaction between the electric motor, highly efficient transmission and precision-calibrated frequency converter, the Megamat RS now consumes up to 40 per cent less energy, thereby significantly cutting life cycle costs (TCO).

## **Control system and software**

The Megamat RS is equipped with the Logicontrol® machine control system, which also provides a simple way of entering the world of software-supported warehouse management. That's because

managing storage locations, articles and stock – the classic tasks of any warehouse management software – is possible with Logicontrol without the need for additional expense and hardware. As a result, even operators of small, less complex storage spaces or stand-alone solutions now have the opportunity to optimise their material flow. With the “drive and view” feature, the system can also run without warehouse management. By optionally using Kardex Remstar Power Pick® Global software or other warehouse management systems, it is possible to permanently optimise storage spaces, stock and order picking performance. The orders are guided safely, quickly and precisely through the warehouse with the help of Power Pick Global and are promptly made available for shipping.



Furthermore, higher-level ERP and host systems can easily be connected at any time via standard interfaces. Thanks to its extremely fast access times, the Megamat RS is particularly suited to the “drive and view” feature and picking small parts. Bar code solutions, position indicators and pick-to-light technology can also be integrated via standard interfaces.

## Safety

With its multilevel safety concept, the Megamat RS provides the best-possible protection for man, machine and stored goods. Thanks to the protection equipment fitted as standard in the access opening of the storage system, such as the safety light curtain, the operator is optimally protected against accidents in the workplace. Stored goods can be secured against unauthorised access and theft with the help of the lockable smooth-running sliding door. It is also possible to protect the entire unit or certain areas against unauthorised access

by issuing individual passwords or using RFID chips for identifying employees.

## To ensure maximum safety, Kardex Remstar has equipped the new Megamat RS with four impressive features:

- **Emergency hand crank**  
Even in the event of a power outage, the emergency hand crank provides access to stored products at all times.
- **Automatic chain tensioner**  
The new chain tensioner significantly reduces the susceptibility of the load chain to wear and tear. The result is a reliable and long-lasting storage system.
- **Smooth-running sliding door**  
The lockable sliding door moves especially smoothly. It can be operated automatically or manually and can even be opened with one hand, thereby guaranteeing ease of use and ensuring that employees can continue working uninterrupted.

## – Clip system

The innovative Kardex Remstar clip system allows for simple, fast and extremely safe assembly of the panels. The increased system stability guarantees maximum protection both for stored goods and on-site employees.

## Benefits at a glance:

- High cycle speed – fast access to all stored goods
- Increased storage space thanks to highly dense storage facility
- Able to keep pace with new innovations and future developments thanks to the modular system structure
- Maximum use of space on a minimal footprint
- Extensive safety features and ergonomic design

# Kardex Remstar Megamat RS:

## Eight solid benefits for those wishing to store goods efficiently and safely



### 1

#### Speed and Productivity

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

### 2

#### More space. Better organisation

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

### 3

#### Individuality and Flexibility

- Modular structure
- Flexible carrier concept
- Can be retrofitted in a number of different ways
- Many different options
- Available as a 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 in automated vertical carousel systems
- Worldwide service network: Kardex Remstar Life-Cycle-Management





## 5

### Safety

- Emergency hand crank in case of power failure
- Clip system for simple, quick assembly and greater system stability
- Access control
- Optimal protection for personnel and stored goods
- Certified safety



## 6

### Ergonomic Design

- "Goods to person" principle
- "Drive and view"
- Optimised user-friendliness
- Multifunctional profile: customised attachment for operator controls and accessories
- Smooth-running sliding doors
- Confirmation bar

## 7

### Technologie

- Modern design
- Low-wear operation thanks to the automatic chain tensioner
- State-of-the-art and endurance-tested materials
- Logicontrol unit management
- Power Pick Global warehouse management software

## 8

### Secure Investment

- Long service life
- Retrofit and conversion packages available as needs change

# Kardex Remstar Megamat RS: Individual requirements call for individual solutions



Kardex Remstar offers you an individual solution tailored to your needs.

## Megamat RS 180



### Efficient storage and fast retrieval of lightweight loads

The Megamat RS 180 is mostly suitable for the orderly storage and picking of textiles or small parts in containers – for instance in the hotel and medical sectors, in vehicle manufacturing and mechanical engineering, and in the electronics industry.

## Megamat RS 350



### Ideal for medium-sized loads

The Megamat RS 350 is the perfect solution for storing and retrieving components, tools and spare parts. Among the wide range of possible applications, each carrier can be loaded with up to 350 kg.

## Megamat RS 650



### For heavy loads of up to 650 kg per carrier

The Megamat RS 650 can be used in a variety of different areas. For instance, it can be integrated in the production process in a number of ways – either as an interim storage solution for semi-finished products or as a storage buffer during drying phases.

All units in the Megamat RS series can also be supplied for use in controlled areas, such as air-conditioned rooms, drying rooms or clean rooms. Furthermore, we are also able to supply special fire protection solutions.

# Kardex Remstar multipurpose carriers: an adaptable and user-friendly concept

## Flexible storage:



Open carrier to provide various storage options



Carrier with built-in drawers for secure and convenient storage



Carrier with drawers, separator set and intermediate shelf for combining various stored goods



Carrier with partitions for easy sorting of stored goods



Carrier with self-supported intermediate shelf for storage of large, flat parts

**Megamat RS multipurpose carriers: efficient, structured storage at the highest level. Optimised for different processes and needs – adaptable – upgradeable – user-friendly**

Whether as a freestanding vertical carousel or integrated in a building over several floors, in highly dense storage facilities the Megamat RS creates the greatest possible capacity for the most diverse range of goods, from bulk material and small parts to multipart assembly groups and components.

The multipurpose carriers can be adapted to almost any application and can also be retrofitted and converted depending on needs – for a secure investment, now and in the future.

The Megamat RS multipurpose proves to be an impressive and versatile performer when it comes to:

- the direct storage of goods
- the use of standard storage and transit containers
- the use of customer-specific containers and vessels

The maximum storage space per carrier can be up to 16 square metres. Depending on the type of unit, the maximum load capacity is 180, 350, or 650 kilograms per carrier. The carrier depth, width, and height can be individually configured on the Megamat RS.

Depending on the application, the carriers can be individually subdivided using intermediate shelves with support plates or self-supporting intermediate shelves. A combination of drawers, flaps and dividers can be used as required.

Further Information:  
[www.kardex-remstar.com](http://www.kardex-remstar.com)



# Kardex Remstar Megamat RS: Variety between function and design



**Whether for smaller, medium-sized or large companies, industry or trade, the units in the Megamat RS series can be adapted for virtually any application and combine supreme performance, maximum operating comfort and attractive design.**

### The Megamat RS features attractive design:

The exterior angles, corner angles and corner brackets are painted  RAL 7035 (light grey) as standard.

The following RAL colours are available for the access opening:

- |   |   |
|---|---|
|  3003 (Ruby red)    |  6011 (Reseda green) |
|  5005 (Signal blue) |  6025 (Fern green)   |
|  5014 (Pigeon blue) |  7004 (Signal gray)  |
|  5015 (Sky blue)    |  7012 (Basalt gray)  |
|  5019 (Capri blue)  |  7035 (Light gray)   |

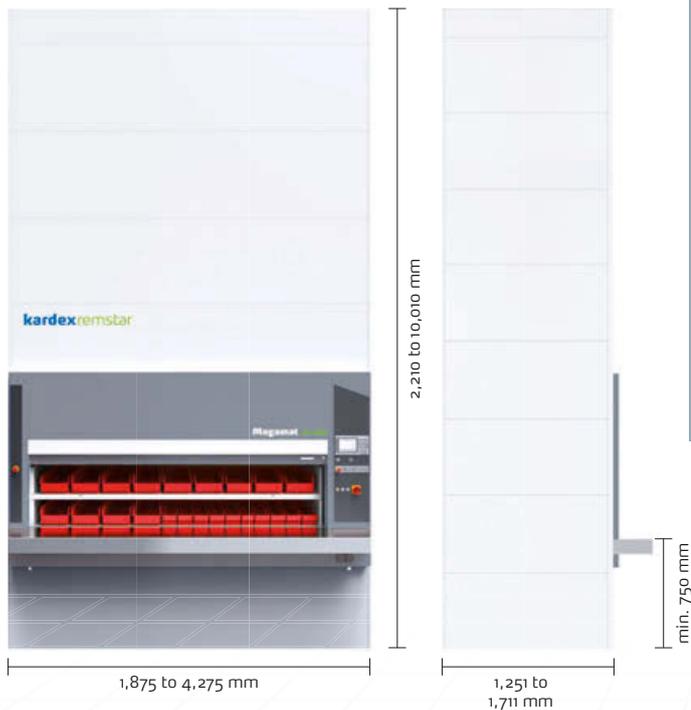
Other colours, such as those that match your corporate design, are optionally available.

### Unit options (selection):

- ESD design
- Divided frame side panels
- Several access openings
- Position indicator
- Additional data interfaces
- Function profile for the ergonomically affixing accessories
- User management
- Multiple operating languages



Please refer to the table for details of the unit and carrier dimensions.



## Technical information

### Unit dimensions

Megamat RS	180	350	650
Width	1,875 to 3,875 mm	1,875 to 4,275 mm	1,975 to 4,275 mm
Height min.	2,210 mm	2,360 mm	2,360 mm
Height max.	7,510 mm	10,010 mm	10,010 mm
Depth	1,251 mm 1,441 mm 1,631 mm	1,271 mm 1,471 mm 1,671 mm	1,311 mm 1,511 mm 1,711 mm

Special dimensions on request

### Usable carrier dimensions

Width min.	1,250 mm	1,250 mm	1,250 mm
Width max.	3,250 mm	3,650 mm	3,550 mm
Height	212 mm 237 mm 263 mm 288 mm 314 mm 339 mm 364 mm	225 mm 263 mm 301 mm 339 mm 377 mm 415 mm 453 mm 491 mm	255 mm 306 mm 356 mm 407 mm 458 mm

Depth	428 mm 528 mm 628 mm
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### Unit imbalance

max.	600 kg	1,200 kg	2,100 kg
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### Load per carrier

max.	180 kg	350 kg	650 kg
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### Unit load (incl. carrier weight)

max.	6,000 kg	12,500 kg	19,000 kg
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# Kardex Remstar Power Pick® Global: The Warehouse Management Software for intralogistic solutions

## 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 optimise batch orders, multiple order picking and time-optimised movement of storage systems (HoriOpt) to maximise 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 customised 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 centre: 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.

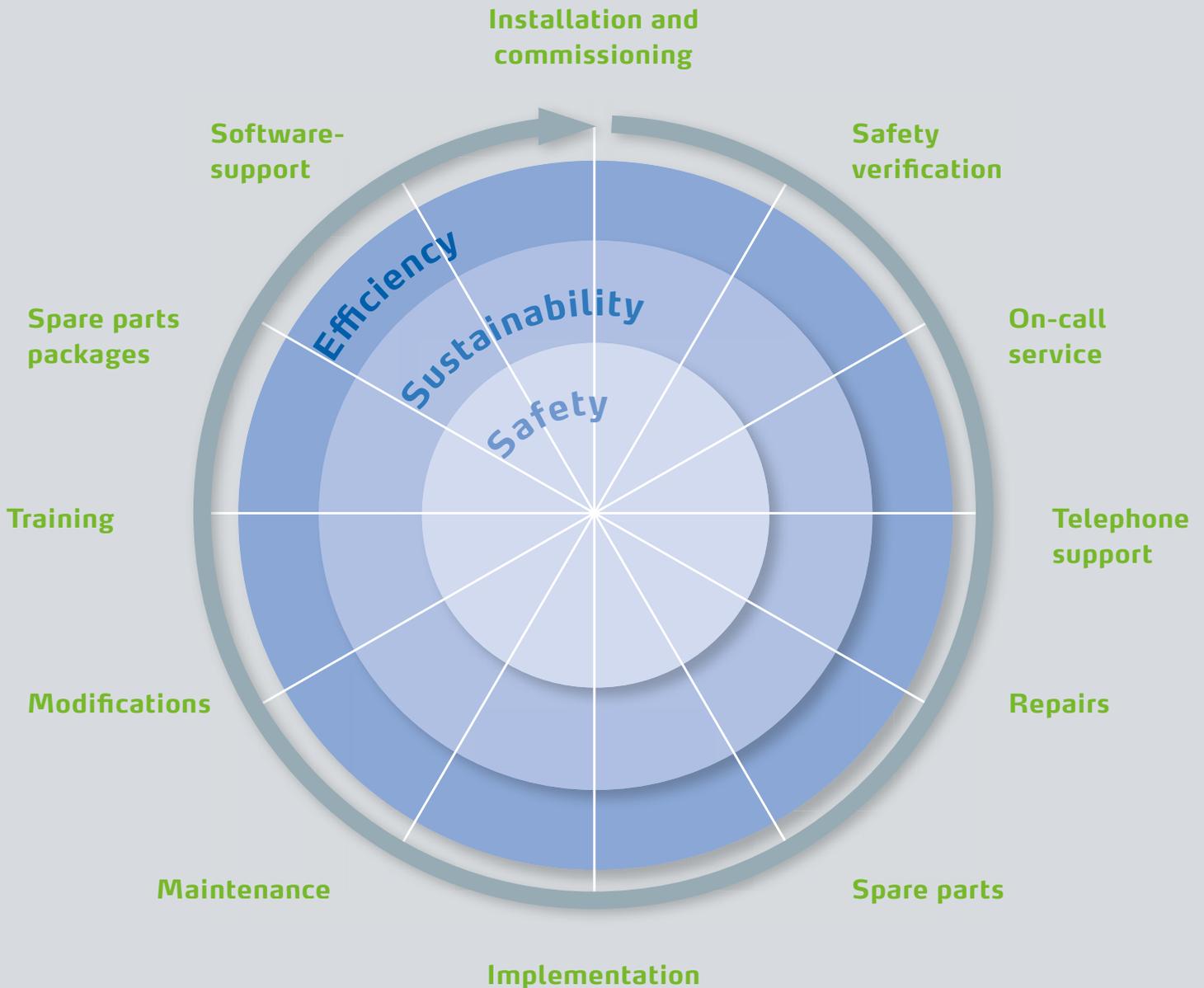
\* Windows® is a registered trademark of the Microsoft Corporation.

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

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

επεξεργαστική μηχανή  
μεταφοράς – επεξεργασία  
επιχειρησιακή διαχείριση  
– smartpick 2500  
αυτοματισμένη

# Kardex Remstar Service Principle: 3 levels for your success – and more efficiency, sustainability, safety



### Do you want more service?

No problem:

Our service management will develop an individual concept together with you.

Give us a challenge!



Further information:  
[www.kardex-remstar.com](http://www.kardex-remstar.com)

# Kardex Remstar: Always close to you – Worldwide



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Belgium  
China  
Cyprus  
Czech Republic  
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Great Britain  
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