

# Kardex Remstar Megamat<sup>®</sup> RS

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



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



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

## **Principle**

The Megamat RS consists of shelves or drawers rotate up or down via the shortest path, automatically delivering stored items to an operator at an ergonomically positioned pick window. Each unit is compatible with an entire suite of software and controls or can be used as a standalone solution.

## **Reliability**

Megamat Vertical Carousels have a higher MTBF (Mean Time Between Failure Rate) than most household appliances. An emergency hand crank makes inventory available 24-7 regardless of available power.

## **Safe & Secure**

The Megamat RS is equipped with both personnel and product photocells for

maximum safety. Stored goods are protected from unauthorized access by a lockable door. Security can be further increased with Power Pick Global inventory management software providing password protection and transaction tracking for single or multiple items.

## **Increase Productivity**

Utilizing the goods to person concept eliminates wasted time spent walking and searching to find required parts. With the Megamat RS all products are delivered to the work station, increasing productivity up to 2/3.

## **Save Floor Space**

Taking advantage of unused overhead space, the Megamat RS can recover up to 75 percent of the floor space typically required by shelving and drawer sys-

tems. The recovered floor space can be used for value added activities such as additional manufacturing or quality checking.

## **Improve Pick Accuracy**

Various pick-to-light technologies can be integrated to increase accuracy up to 99.9 percent. A TIC (Transaction Information Center) located on the work counter can pinpoint the exact location of the part requested by displaying the location, part number and quantity for the operator to pick or put.

## **Ergonomics**

All carriers are delivered to an ergonomically correct height eliminating operator bending and reaching reducing operator fatigue.



## 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 percent less energy, thereby significantly cutting life cycle costs (TCO).

## Control System & Software

The Megamat RS is equipped with the Logicontrol® machine control system, providing a simple way of entering the world of software supported warehouse management. With the “drive and view” feature, users can drive the carriers around the track and view the goods in each carrier, stopping as needed. Managing storage locations, articles and stock – the classic tasks of any warehouse management software – is also possible with Logicontrol. As a result, even operators of small, less complex

storage spaces or stand-alone solutions now have the opportunity to optimize their material flow. By optionally using Kardex Remstar Power Pick® Global software or other warehouse management systems, it is possible to optimize storage spaces, stock and order picking performance even further. 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.

## Four New Impressive Innovations

- **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 for reliable and long lasting operation.

## – Smooth running sliding door:

The lockable sliding door moves especially smoothly and can be operated easily with one hand for ease of use.

## – Clip system:

The innovative clip system allows for simple, fast and extremely safe assembly of the panels and increases system stability.

## Benefits at a glance:

- High cycle speed – fast access to all stored goods
- Increased storage space thanks to highly dense storage facility
- Maximum use of space on a minimal footprint
- Extensive safety features and ergonomic design

# Kardex Remstar Megamat RS: Eight benefits for companies looking to store goods efficiently and safely



1

## 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

2

## 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

3

## Individuality and Flexibility

- 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 for automated vertical carousel systems
- World-wide 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"
- Multifunctional profile: customized attachment for operator controls and accessories
- Smooth-running sliding doors
- Confirmation bar
- Ergonomic work counter

## 7

### Technology

- 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 (773.5 lbs).

## Megamat RS 650



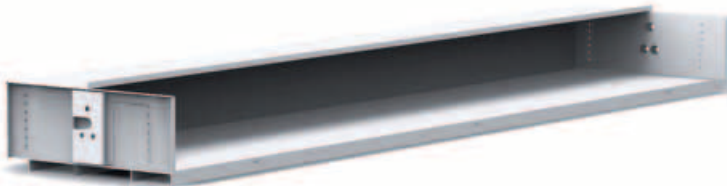
### **For heavy loads of up to 650 kg (1,436.5 lbs) per carrier**

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.

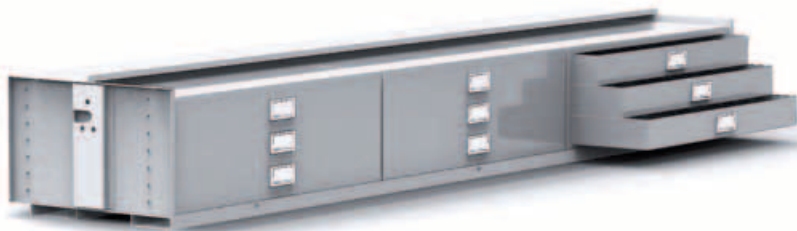
**All units in the Megamat RS series can also be supplied for use in controlled areas, such as air-conditioned rooms, drying rooms, or clean rooms. Furthermore, we are also able to supply special fire protection solutions.**

# 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. Optimized 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 carriers prove 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 meters. Depending on the type of unit, the maximum load capacity is 180, 350, or 650 kilograms per carrier (397.8, 773.5, 1,436.5 lbs 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.kardexremstar.com](http://www.kardexremstar.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 gray) as standard.

The following RAL colors 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 colors, 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





## Technical information

### Unit dimensions

Megamat RS		180		350		650	
Width	from	1,875 mm	73.8 in	1,875 mm	73.8 in	1,975 mm	77.8 in
	to	3,875 mm	152.6 in	4,275 mm	168.3 in	4,275 mm	168.3 in
Height	min.	2,210 mm	87.0 in	2,360 mm	92.9 in	2,360 mm	92.9 in
	max.	7,510 mm	295.7 in	10,010 mm	394.1 in	10,010 mm	394.1 in
Depth		1,251 mm	49.3 in	1,271 mm	50.0 in	1,311 mm	51.6 in
		1,441 mm	56.7 in	1,471 mm	57.9 in	1,511 mm	59.5 in
		1,631 mm	64.2 in	1,671 mm	65.8 in	1,711 mm	67.4 in

Special dimensions on request

### Usable carrier dimensions

For Clear entry height, deduct height of standard front lip (8 mm / 0.39 in) from Usable carrier height.

Width		min.		1,250 mm		49.2 in		1,250 mm		49.2 in		1,975 mm		77.8 in		
Width	max.	3,250 mm	128.0 in	3,650 mm	143.7 in	3,550 mm	139.8 in									
Height		212 mm	8.3 in	225 mm	8.9 in	255 mm	10.0 in									
		237 mm	9.3 in	263 mm	10.4 in	306 mm	12.0 in									
		263 mm	10.4 in	301 mm	11.9 in	356 mm	14.0 in									
		288 mm	11.3 in	339 mm	13.3 in	407 mm	16.0 in									
		314 mm	12.4 in	377 mm	14.8 in	458 mm	18.0 in									
		339 mm	13.3 in	415 mm	16.3 in											
		364 mm	14.3 in	453 mm	17.8 in											
Depth				428 mm	16.9 in											
				528 mm	20.8 in											
				628 mm	24.7 in											

### Unit imbalance

max. 600 kg 1,320 lb | 1,200 kg 2,640 lb | 2,100 kg 4,620 lb

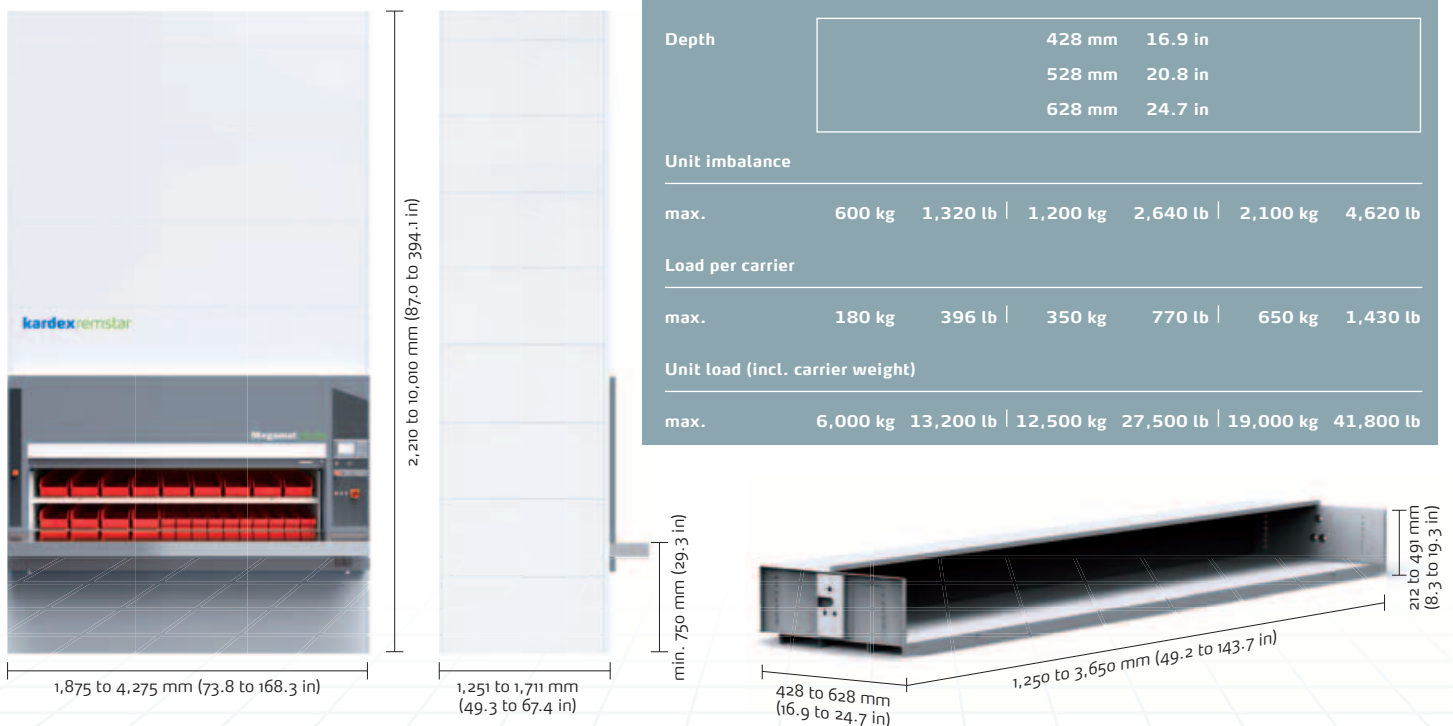
### Load per carrier

max. 180 kg 396 lb | 350 kg 770 lb | 650 kg 1,430 lb

### Unit load (incl. carrier weight)

max. 6,000 kg 13,200 lb | 12,500 kg 27,500 lb | 19,000 kg 41,800 lb

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



# 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 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 middle-ware 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.

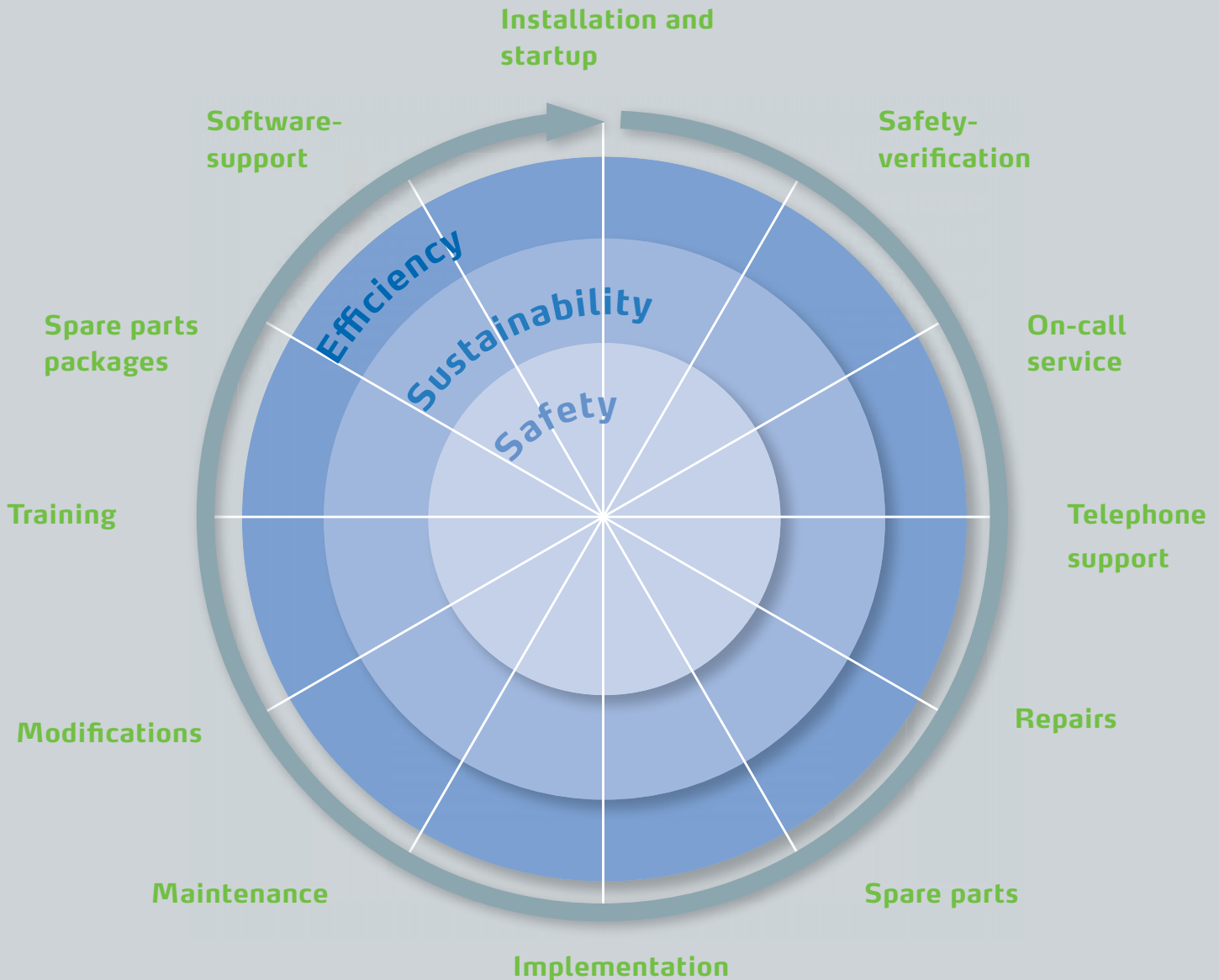
### Kardex Remstar offers a wide portfolio of software applications:

- **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

Երեւոյի Խոզմէլ  
միջր ելք ԼԵԵԶ – ձեւարկը ԼՕԻ  
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# Kardex Remstar Service Principle: 3 levels for your success – and more efficiency, sustainability, safety



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: Always close to you – Worldwide



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Cyprus  
Czech Republic

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Finland  
France  
Germany  
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India

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