



Vertical Carousel Kardex Remstar


PrecisionWarehouseDesign
LLC

 972-704-2120

 Sales@pwwdus.com

Standard Solution | Vertical Carousel

kardexremstar

Kardex Remstar Megamat® RS

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



Vertical Carousel Kardex Remstar

Standard Solution | Vertical Carousel

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.

Vertical Carousel Kardex Remstar

kardexremstar



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

Vertical Carousel Kardex Remstar

Standard Solution | Vertical Carousel

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



Vertical Carousel Kardex Remstar



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

Vertical Carousel Kardex Remstar

Standard Solution | Vertical Carousel

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.

Vertical Carousel Kardex Remstar



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

Technical information

Unit dimensions

Megamat R5	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
	1,611 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
	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	
		491 mm 19.3 in	

Depth

428 mm 16.9 in
528 mm 20.8 in
628 mm 24.7 in

Unit imbalance

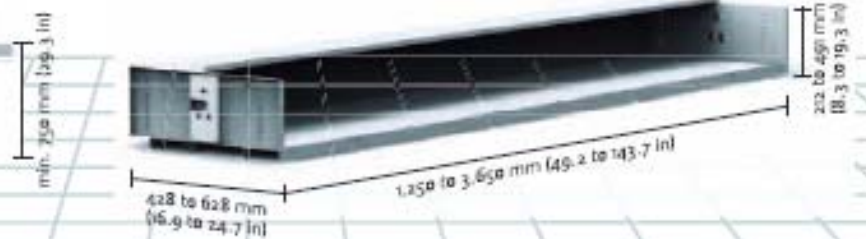
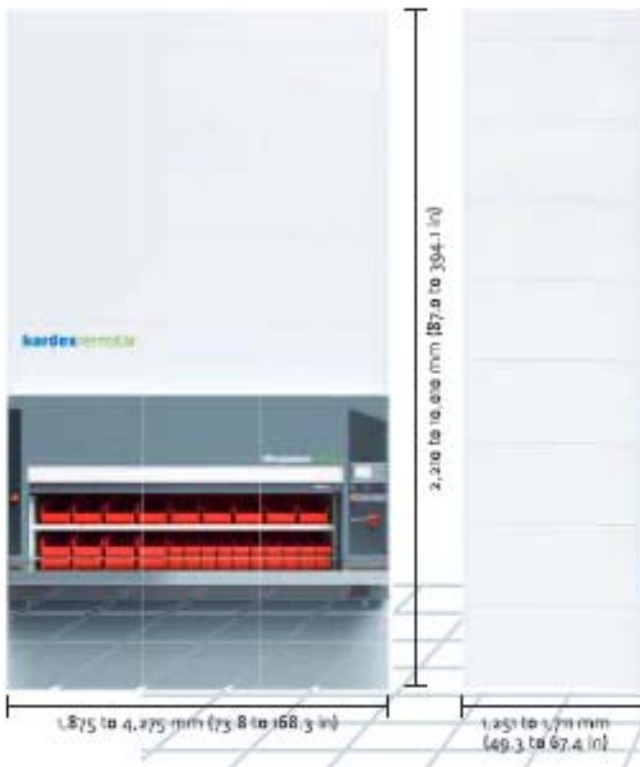
max.	600 kg 1,320 lb	1,200 kg 2,640 lb	2,100 kg 4,620 lb
------	-----------------	-------------------	-------------------

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
------	--------------------	---------------------	---------------------



Vertical Carousel Kardex Remstar

Software Solution | Warehouse Management Software

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