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## Kardex Remstar Horizontal Carousel

An efficient solution for storage and picking





# Kardex Remstar Horizontal Carousel: Save time through rapid, direct and reliable access



The Kardex Remstar Horizontal Carousel is designed for fast, reliable and efficient high speed picking. Whether in production or distribution, for applications requiring high throughput or for medium and slow-movers:

Horizontal Carousels are the perfect solution.





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## Kardex Remstar Horizontal Carousel: Because fast access and efficiency matter.

### **Efficient storage and retrieval system**

Fast reaction times, increased throughput and short delivery periods – these are only a few of the criteria distribution centers require for modern and efficient warehouse logistics. It is exactly at this point that automated Horizontal Carousel systems from Kardex Remstar come into action: they provide minimal wait times and high accuracy, allowing orders to be processed in the shortest possible times.

By installing the Kardex Remstar warehouse management software, you create the right conditions for more efficiency in your picking processes. More transparency and flexibility are added to the accurate storage and retrieval of items – even in peak times.

### **“Goods to person” principle**

Whatever you store – a reliable and efficient storage and retrieval system significantly reduces labor and warehouse costs. Like any other storage system from Kardex Remstar, Horizontal Carousels work according to the “goods to person” principle and deliver the requested items in the shortest possible way directly to the access opening – without any unproductive travel and search times. Combining several orders into a batch will increase picking efficiency to another level.

And one more benefit: all horizontal units that belong to one station work simultaneously. This guarantees permanent goods access and reduces waiting times to a minimum.

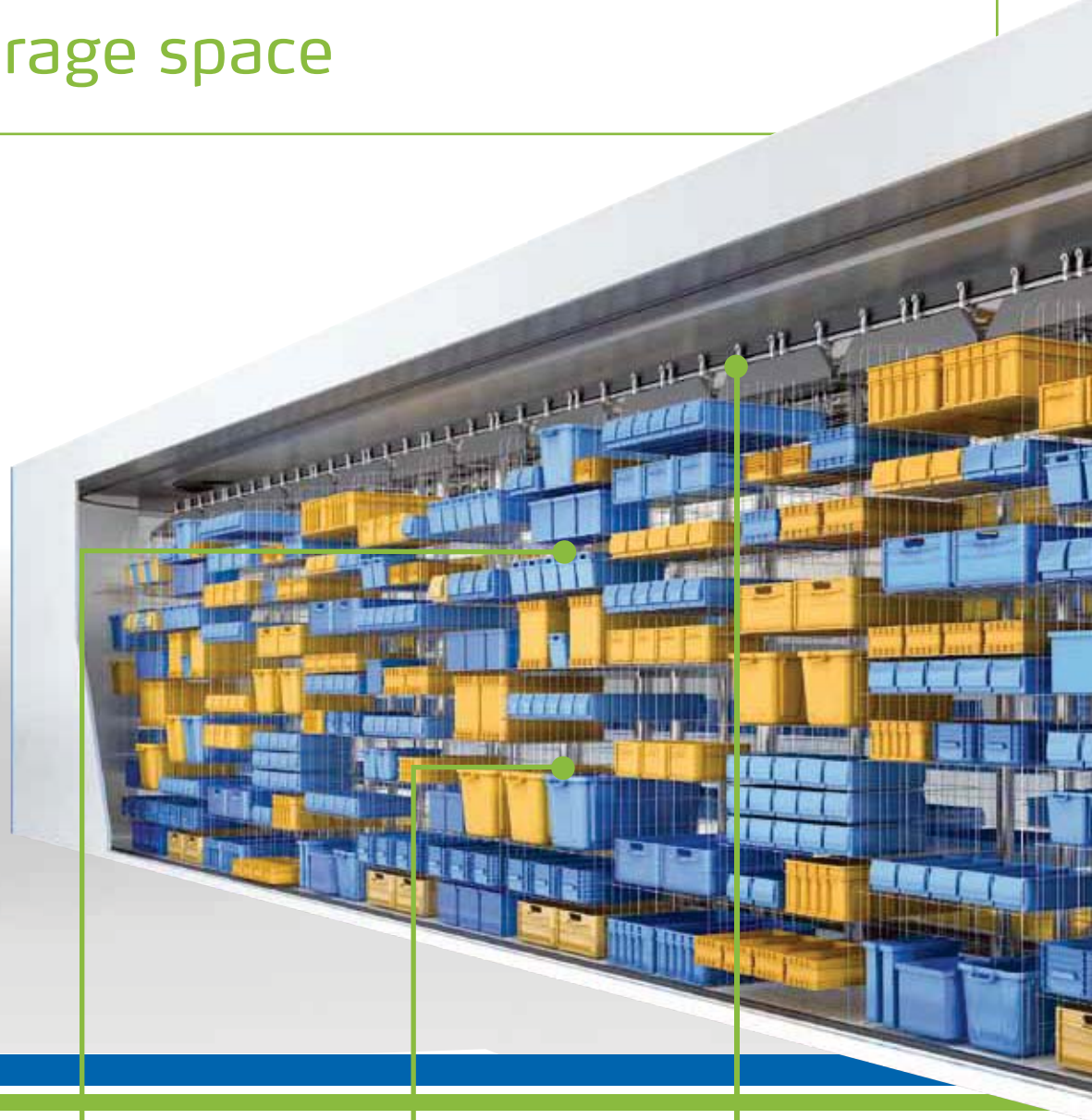


### **The benefits at a glance:**

- Higher picking performance
- Minimized waiting times
- Greater accuracy through pick-to-light technology
- 24/7 availability

# Horizontal Carousel Systems:

## Discover the horizontal dimension of your storage space



1

Carrier payload:  
600 lbs (272 kg), 1000 lbs  
(450 kg), 1500 lbs (680 kg).

2

The useable carrier height  
of the Horizontal Carousel  
system is between 6 ft  
and 12 ft (1.8 m and 3.7 m).

3

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



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Technical data

Unit dimensions

Carousel length: 15 ft to 120 ft  
(4.6 m to 36.6 m)

Number of carriers:  
from 16 to 120

Carrier

Carrier width: 24.5 in (622 mm),  
32.5 in (825 mm), 37.8 in  
(960 mm)

Carrier depth:  
18 in (460 mm), 22 in (560 mm),  
24 in (610 mm)

Carrier height:  
from 6 ft to 12 ft (1.8 m to 3.7 m)

Load-bearing capacity

Payload per carrier:  
from 600 - 1,500 lbs  
(272 to 680 kg)

Payload per shelf:  
from 75 to 200 lbs (34 to 90 kg)

Performance Data

Rotational speed:  
85 ft (24 m) per minute

Motor: from 1.0 to 6.0  
horsepower (0.75 to 2.2 kW)

Shelf Spacing Adjustment

3 in (76.22 mm)

Other spacing available  
on request

4

The Horizontal Carousel unit 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 multilevel stacking.

6

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

7

Optional  
doors available

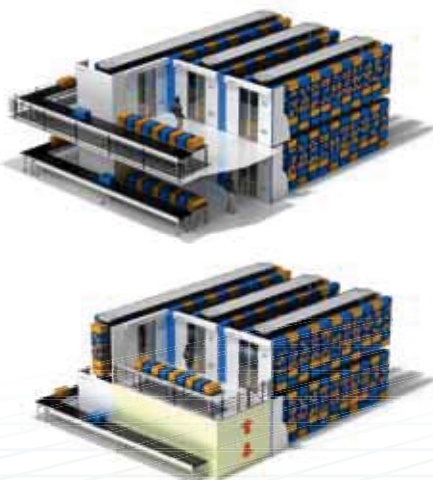
# Kardex Remstar Horizontal Carousel:

## For higher performance and fast delivery times

To achieve maximum picking performance, Horizontal Carousels are usually arranged in stations. Depending on the installation size and conception, a number of different unit applications are possible:



### Multilevel stations

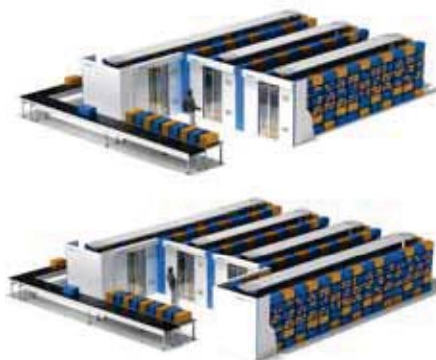


### Dual stations



Two Horizontal Carousels with the access openings arranged at right angles to each other create a dual station and can be comfortably operated by just one person.

### Triple and quadruple stations



Triple stations or quadruple stations are recommended for applications with a wide range of items that require frequent access – the layout is usually L-shaped.

For more comprehensive systems, multilevel stations can meet the requirements of a great variety of different material flow strategies. Multilevel stations – two or three Horizontal Carousels stacked one above the other – allow for picking and putting on different floor levels. Each level operates independently; with separate access and picking stations located at each floor level and on each platform. For uninterrupted material flow between the different levels, conveyors can be used to transport items.

A Horizontal Carousel Tall Station utilizes the available room height.

A lifting platform always brings the operator to the ideal height for ergonomic access to the stored items. To optimize time management, the height of the Horizontal Carousel is divided into zones by the inventory management software so that all items in one zone are picked before the lifting table moves to the next zone.

As you can see yourself: the variety of possible combinations with Horizontal Carousels from Kardex Remstar is virtually endless. Our experts will gladly meet with you to find the solution best suitable for your individual requirements.



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#### Operator terminal

Pick lists on paper, excessive time spent searching, incorrect deliveries and stock shortages are a thing of the past: the operator terminal provides the operator with the necessary information to allow for fast, easy and paperless picking. The ideal terminal consists of a touch screen, digital information display – Pick-by-Light, for example – and confirmation buttons. With software from Kardex Remstar, peripheral devices such as printer, scanner and other display panels easily integrate into the system.

#### Safety standards in Europe

Safety first! All products from Kardex Remstar fulfill this requirement- and our Horizontal Carousels do not make an exception here: Every device complies with European CE-Standards. All systems are closed from all sides and surrounded by a protective fence preventing accidents and unauthorized access to the stored goods. An on top of that, the access area at the unit front is equipped with automatically opening and closing safety doors. Optionally, the European safety standards can also be chosen for the US market.

#### Safety standards in the US

All Horizontal Carousels also comply with the regulations of the American National Standards Institute (ANSI) that were primarily developed to guarantee the safety of products for the protection of consumers. The Horizontal Carousels fulfill the strict ANSI-regulations in many ways: personal protection devices such as door mats and door locks are easily fitted into standard carousels.

The moment an operator steps onto a door mat, the rotational movement of the Horizontal Carousels stops. This also applies if an incorrectly positioned product interrupts the scanning range of the photo cells in the access opening.



# Kardex Remstar Horizontal Carousel:

## 8 good reasons to choose the Horizontal

### Benefit: **Efficiency**

With the "goods to person" principle, the requested items are transported to the operator – rapid, direct and reliable – without any unproductive travel and search times. The Horizontal Carousel always takes the shortest path to the access opening. Integrated pick-to-light technology shows the operator which goods and what quantities to pick.

### Benefit: **Batch picking**

Paperless picking is possible while delivery notes and other relevant documents can continue to be printed. The warehouse management system combines several orders into a picking batch via PC control, allowing operator to pick multiple orders with reduced drive cycles.

### Benefit: **High payloads**

The Horizontal Carousel is capable of storing items with a maximum payload of 55 tons. The load-bearing capacity is chosen according to the application.

### Benefit: **Save space**

Items are stored compactly in a confined space; this eliminates unproductive travel and picking routes within the warehouse. The actual picking zone is as small as 54 to 108 square feet (5 to 10 meters).

**Kardex Remstar's formula for success:** optimizing your productivity and increasing your throughput while reducing space requirements and achieving greater transparency in your warehouse

### Benefit: **Reliability and compact design**

From development, manufacturing to customer service: The Horizontal Carousel is a compact, reliable, low-maintenance unit with nearly 100 % availability – ensuring consistent and long-term operational safety.

### Benefit: **Adaptability**

To achieve high throughput during peak times and meet seasonal picking requirements the system can be divided into different stations at the push of a button. A station of 4 Horizontal Carousels can be operated by one person, and during peak times be operated by several people at the same time.

### Benefit: **Flexibility**

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

### Benefit: **Pick Performance**

The Horizontal automatically and reliably processes even complex orders in the shortest possible time: one operator works off 200 to 400 positions per station and hour. Every order usually comprises up to five positions, an order batch consists of between five and ten single orders.



Increase your success and optimize your throughput  
with pick-to-light technology by Kardex Remstar!



No matter if it's about storing or picking items: The factors that decide on the outcome of your work processes are accuracy and speed. With pick-to-light technology you can optimize your work-flow – and achieve greater efficiency.

Pick-to-Light systems by Kardex Remstar provide the operator with four main functions:

1. Storage and retrieval of items
2. Allocation of articles and orders
3. Information flow  
(quantity, description, etc.)
4. Process confirmation

#### **Light-Tower**

A Light Tower is made up of several LED position indicator modules in a vertically arranged column. Display modules at all sides of a shelf indicate the active carousel, storage location and the exact quantity of items to pick. Often one Light Tower is placed in between two carousels and is software driven.

#### **Pick Lights**

Pick lights provide information on the exact position and quantity of items to pick is communicated to the operator through LED lights.

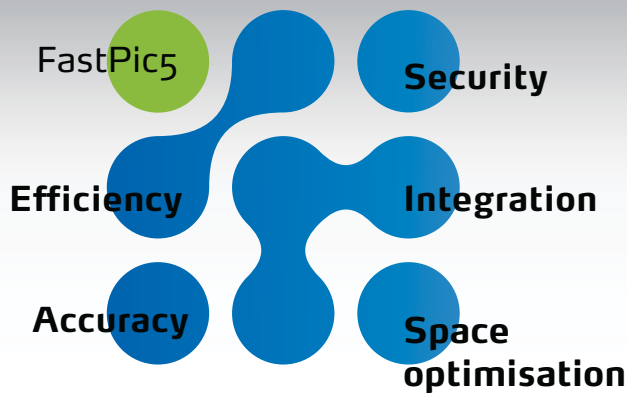
#### **Put / Batch Lights**

Put lights identify the quantity and relevant storage location for replenishing an item or distributing items among a bath of orders.



# FastPic5 Inventory Management Software: the software innovation for controlling storage and retrieval solutions

## Functional Principle of FastPic5



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

### Enhance Your Accuracy

From the standard validation via barcode, handheld or weight control to a wide range of optical user guidance such as Pick-to-Light, Put-to-Light, LED Pointer: FastPic5 Inventory Management Software assists the user to work with greater accuracy.

### Achieve Greater Efficiency

Integrating FastPic5 into your processes allows batch order picking. Picking multiple orders at one time increases throughput significantly.

### When Security Matters

Through FastPic5 user rights and group rights can be controlled and managed by supervisors. Each transaction is monitored and tracked providing real time inventory data.

### Wide Range of Software Solutions

From an easy "Plug and Play" and middleware to customized solutions - all FastPic5 software solutions are based on the latest Windows® technology\* can interface with majority of tier one and tier two WMS and ERP providers. It also allows expanding your warehouse into a mobile data acquisition system to simplify the work of your employees and save time.

### Modularity

From the smallest store to a complex distribution centre: FastPic5 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 FastPic5 inventory management solutions.

### Kardex Remstar offers a wide portfolio of software packages

#### FastPic IO (Inventory Optimizer)

Software solution for small and medium sized enterprises.

#### FastPic OP (Order Processor)

Software package for medium sized warehouses.

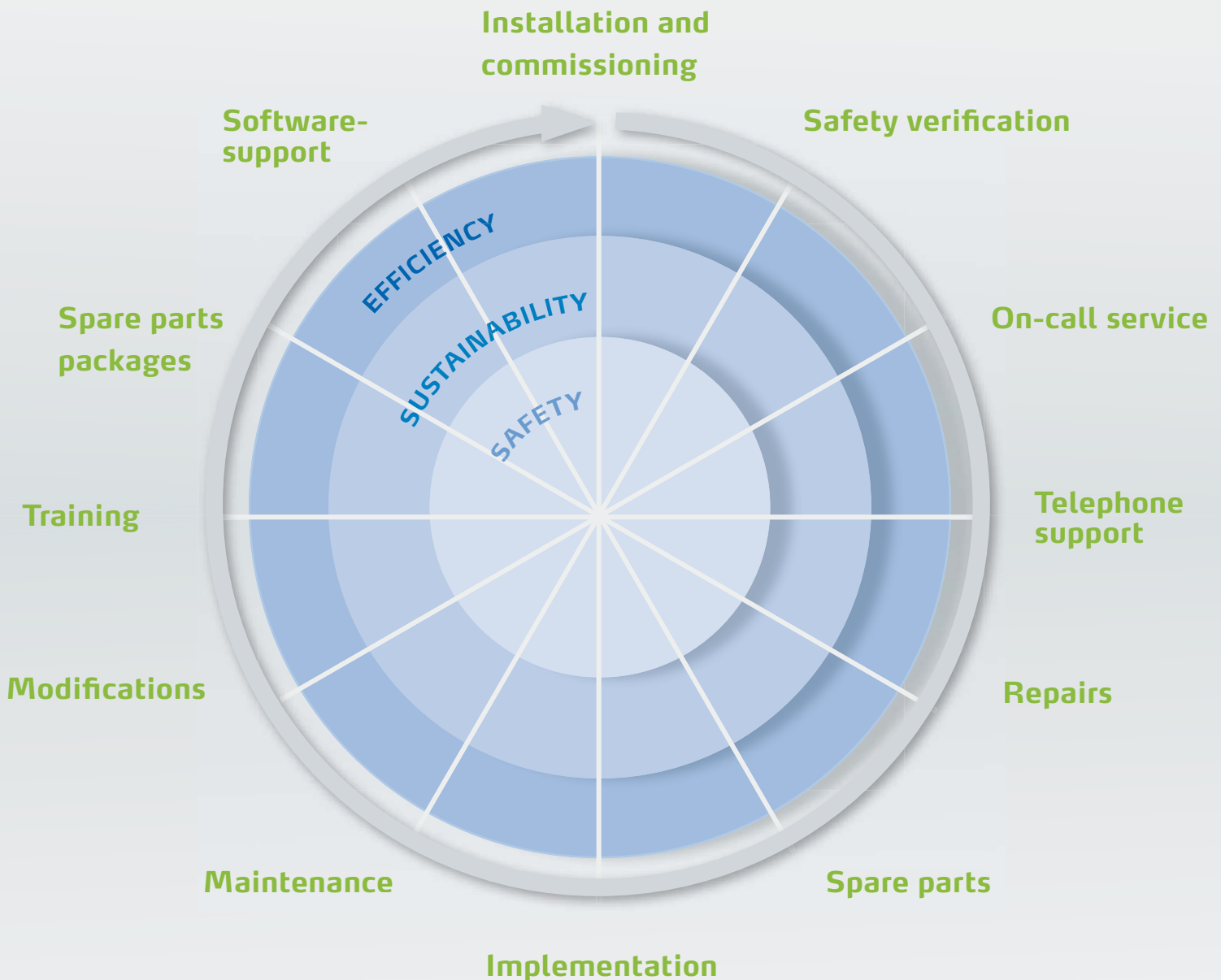
#### FastPic TXP (Transaction Processor)

Solution for warehouse operating under ERP or WMS.

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



## 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!