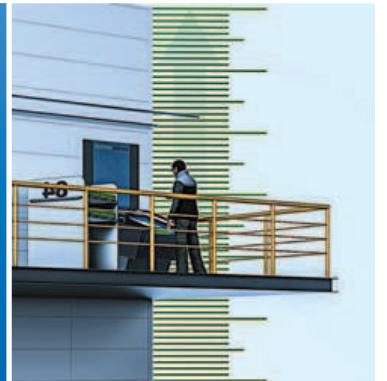




## Vertical Buffer Module.

Scale Your Intralogistics.



# Vertical Buffer Module: Scaled to meet your requirements



Always the right solution: The Vertical Buffer Module product family from Kardex Remstar is made up of many different versions, each optimally geared towards your individual requirements.

Whether greater flexibility, a wider range of products, faster picking times, or an increasing number of small formats in different bins – the different versions in the new Vertical Buffer Module product family from Kardex Remstar can master any demands.

#### More efficient order picking

- Practically no picking errors thanks to controlled access to one single bin
- Precise, simple, and fast order picking using pick-to-light systems
- Automatic replenishment reduces personnel requirements and cuts costs
- Optimised order picking process as there is no longer a need to search for storage locations

#### Energy efficiency by design

- The units consume approx. 70% less energy than comparable systems thanks to innovative design and state-of-the-art technology
- No energy recovery necessary

#### Comfortable picking

- Ergonomic working provided by different picking stations

#### Flexible arranging of stock

- Trays or bins can be mixed in any number of ways based on your needs
- Wide range of items and high storage capacity coupled with fast access times

#### Lightning quick access

- Shorter travel times due to access to the entire storage area via one access opening
- Very fast picking speed on any unit size

#### Benefits at a glance:

- Efficient order picking
- Low energy consumption
- Ergonomic work concept
- Goods-to-person principle
- Very high picking speed





**Vertical Buffer Module – we have developed the new Vertical Buffer Module product family as a solution that responds to a change in requirements and needs. For maximum performance and flexibility.**

#### **Fast and efficient**

- First-class solutions for picking small parts/small-volume parts
- Ultra-efficient order picking performance
- Picking from bins, cardboard boxes, or trays
- Up to 500 order lines per picking station

#### **Optimising your workflow**

- Increased storage volumes
- Significantly reduced picking times
- Unrivalled energy savings
- Only needs a third of the power consumed by a classic mini-load system

#### **Perfect integration**

- On the structural side, the Vertical Buffer Module units fit in seamlessly with your existing infrastructure
- They can be easily connected to conveyor technology, for example
- They can be adapted to special structural conditions or any other needs

- Greater flexibility
- Increasing individualisation
- Solutions for ever growing product ranges with limited storage space

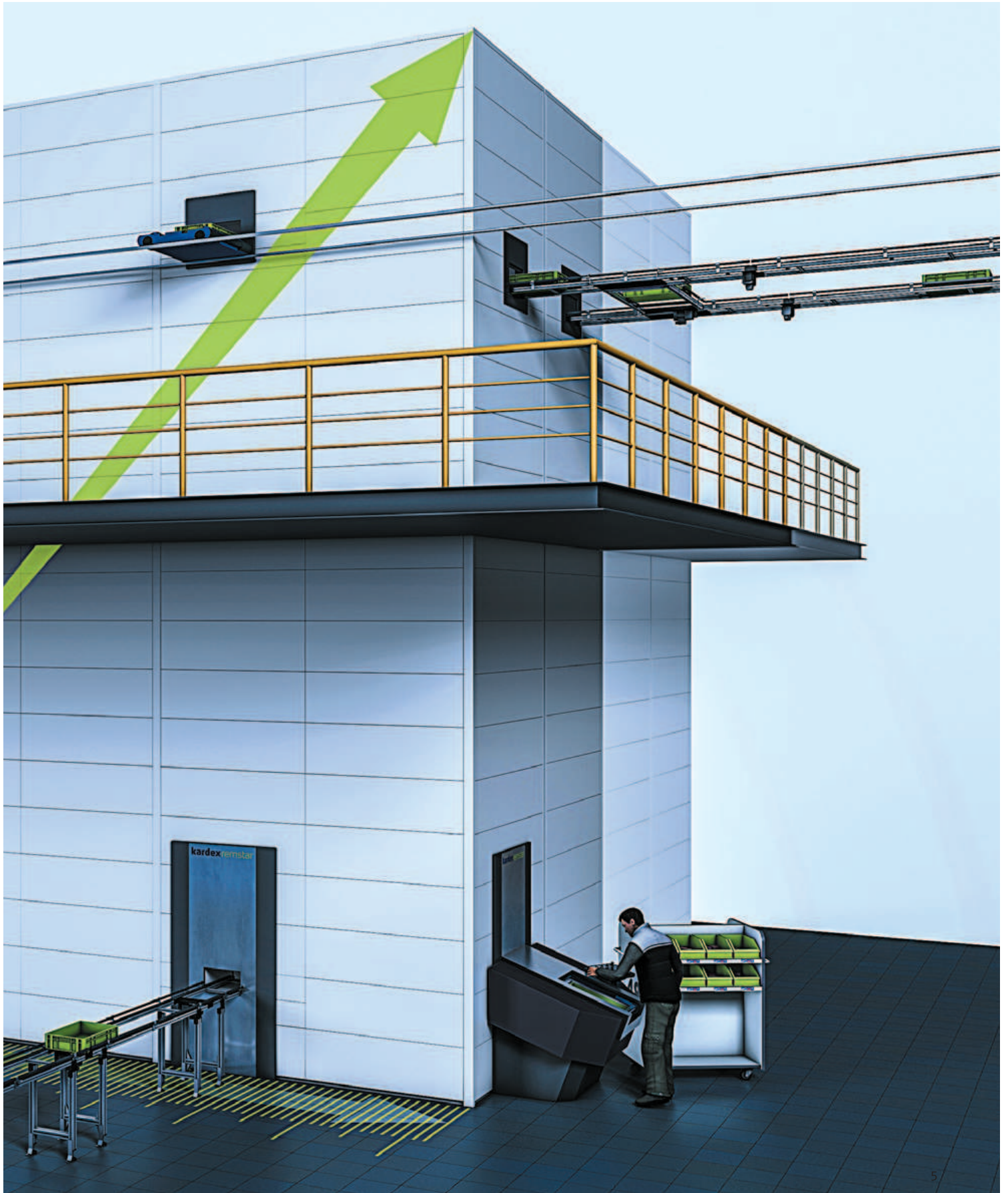
**The Vertical Buffer Module product family opens up new optimisation potential, increases the productivity of work processes, and reduces costs. The resulting opportunities of a wider range of products, smaller batch sizes, or 24-hour service will give you tangible competitive advantages.**

# Scale your intralogistics. Vertical Buffer Module.

Modular and scalable from small to large: The Vertical Buffer Module product family from Kardex Remstar sets new standards in terms of speed, precision, and energy efficiency – from highly dense storage of spare parts and tools for your production operation to the picking of small parts and small-volume parts in your warehouse.







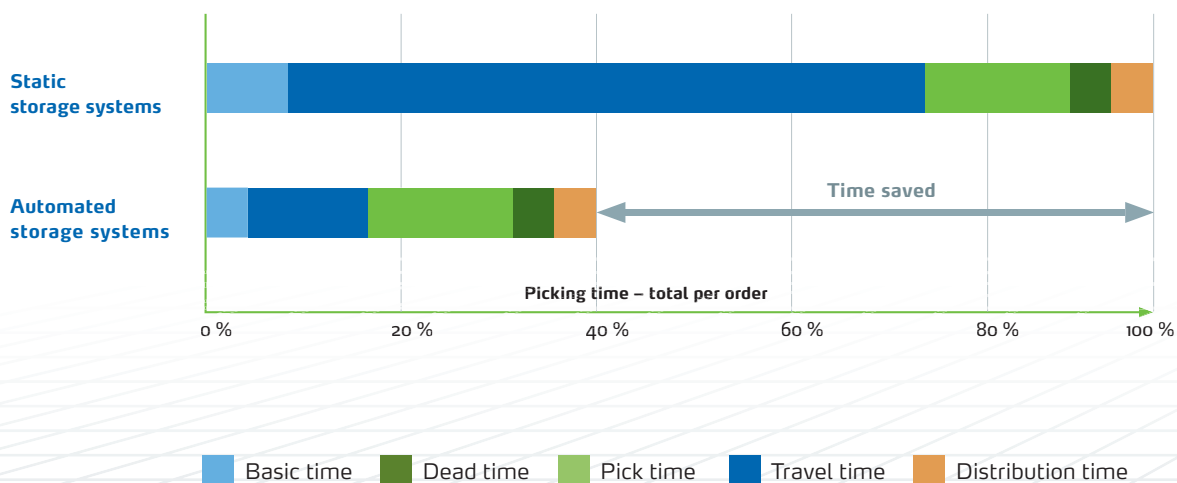
# Now and in the future. Greater productivity and performance with the Vertical Buffer Module



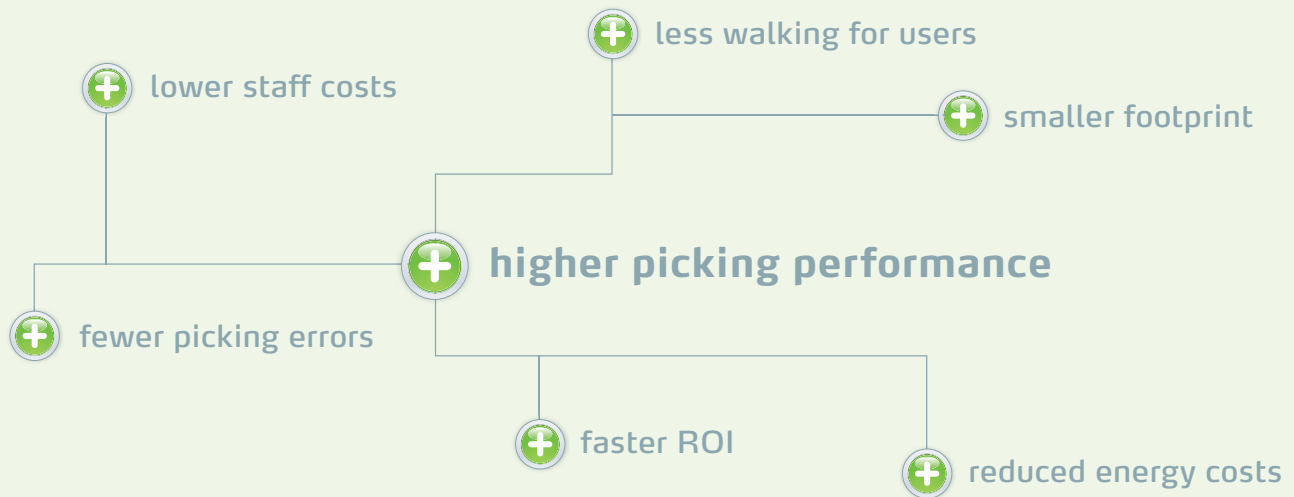
The market is changing – and we are changing with it. The new Vertical Buffer Module product family is our innovative response to the increasingly more diverse demands associated with modern intralogistics.

Secure a competitive edge by optimising intralogistics

An automated storage system gives you the potential to make considerable savings:



# Vertical Buffer Module: The optimal solution for securing your competitive advantage



## Kit assembly



The Vertical Buffer Module units can store and buffer goods of various sizes particularly efficiently. Along with their exceedingly high order picking performance, they provide the ideal basis for intelligently putting together different components to form pre-picked assembly sets.

## Supplying assembly areas



The Vertical Buffer Module units optimise your production logistics and guarantee continuous flow in the assembly area. Complete assembly sets can be retrieved just in time and conveyed directly to the assembly workstations. Compared to conventional shelving, throughput can be increased by up to 200%, depending on the application.

## Slow-Mover Management



Thanks to the goods-to-person principle, excellent retrieval performance, and considerable amount of space saved, the Vertical Buffer Module units are especially suitable for slow-moving goods. They thus permit particularly efficient picking of many different kinds of articles in small quantities.

The new solution offers unique benefits to companies with 24-hour service and overnight delivery of goods such as spare parts. It permits particularly space-saving storage of a large number of slow-movers and error-free picking of all stored items at any time.



# Vertical Buffer Module: More performance. More flexibility. More convenience.



The Vertical Buffer Module product family from Kardex Remstar optimises existing processes, allowing the perfect interaction of storage, retrieval, and assembly. Thanks to the modular and scalable nature of the units, they can be perfectly adapted to suit your individual circumstances.

## Picking station

The turntable is the key element of the picking station. Tilted at a 20° angle, it is particularly ergonomic and thus easy to operate.

While the operator is picking the order the next bin or tray is being prepared in the background and placed on the rear shelf of the turntable. As soon as the operator has finished picking one order the turntable rotates by 180° and the next bin is ready for picking.

## Single access opening

The single access opening is ideal for controlled access to individual bins,

containing valuable tools and equipment, in conjunction with user administration.

## Conveyor connection

As an alternative to the single access opening, the Vertical Buffer Module units can easily be connected to existing conveyor technology – either for manual storage and retrieval of bins and trays or for automatic operation and transfer to the existing material flow.

The conveyor connection can be fitted on the end face, front, or rear of the unit. It brings the bin/tray from the storage position within the Vertical Buffer Module shelf system to the point where the

goods are transferred to external conveyor technology and back again.

The conveyor connection has been designed for permanent filling and retrieval of entire bins. Automatic replenishment saves staff costs.

## One piece flow

The connection of Servus ARC incorporates incoming goods, storage, production, and outgoing goods into one optimal flow process.





## Unit software

Perfect hardware also requires optimal software: Web-based and compatible with a wide range of hardware, the efficient and high-performance unit software from Kardex Remstar supports you every step of the way.

New and enhanced functions provide real added value, while the high-resolution touch screen permits faster handling and significantly reduces the error rate thanks to ergonomic and intuitive operation.

## Typical uses for one piece flow

### Order picking

Whether goods-to-person or person-to-goods, or processing orders one after the other or in parallel, the system brings the material from the storage location and takes it back again afterwards.

### Internal transport

Maximum flexibility with one single system for all areas.

### Assembly

The system supplies both manual and automatic workstations including all the associated data.

### Storage

The system creates new possibilities for storage and order picking. An automatic, cycle-dependent, internal flow of goods is possible.



# Vertical Buffer Module: Kardex Remstar LR 35 and Kardex Remstar LT 35





## Kardex Remstar LR 35

### Technical data

#### Performance\*

- Up to 500 order lines per picking station an hour. (A station can consist of one or more units)
- Max. total load 63 t

\* Depending on unit design and process

#### Bins

- Standard mini-load system compatible bins
- 600 x 640 mm (up to 640 x 440 mm)
- Load 35 kg/bin

#### Unit dimensions\*

- Width 1,920 to 10,470 mm
- Depth 2,350 mm
- Height 3,000 to 12,000 mm

\* Bin dimensions 600 mm x 400 mm

#### Unit vertical steps

- 100 mm steps

## Kardex Remstar LT 35

### Technical data

#### Performance\*

- Speed of up to 3 m/s
- Acceleration of up to 3 m/s<sup>2</sup>

\* Depending on unit design and process

#### Bins

- Standard mini-load system compatible bins
- 600 x 640 mm (up to 640 x 440 mm)
- Load 35 kg/bin

#### Unit dimensions\*

- Width 1,300 mm
- Depth 1,750 mm
- Height 3,000 to 12,000 mm

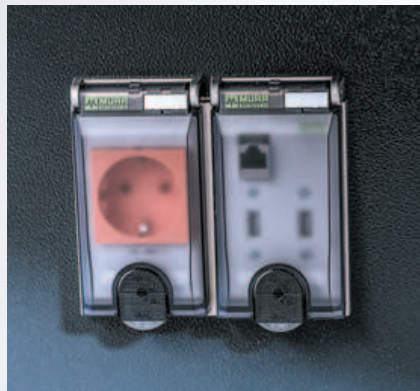
\* Bin dimensions 600 mm x 400 mm

#### Unit vertical steps

- 100 mm steps

### Options

- Several access openings per unit
- Different access opening designs
- Automatic connection of existing conveyor technology
- LED pointer
- Position indicator
- LED lighting
- Barcode scanner
- ESD version
- Sockets and interfaces
- Optical status signals
- Confirmation buttons
- RFID scanner for user login
- Vesa bracket for monitor
- Clearance control
- Preparations for fire protection systems



# Kardex Remstar: Always close to you – Worldwide



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