



SOUTHWEST **SOLUTIONS** GROUP

*We Make Space & People Work Better Together*



# Vertical Buffer Family.

Scale Your Intralogistics.

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# Vertical Buffer Family: Scaled to meet your requirements



Always the right solution: The Vertical Buffer Family offers a variety of solutions, each optimally designed to meet your individual requirements.

Whether your operations require greater flexibility, handling a wider range of products, faster picking times, or managing an increasing number of small parts in different bins – the new Vertical Buffer Family 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
- Fewer employees needed and money saved due to automatic replenishment
- There is no longer a need to search for a storage location and the picking process is optimized

#### 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 goods

- 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 by delivering bins to one access opening from an entire storage area
- 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 Family – a solution that responds to your changing requirements and with maximum performance and flexibility.**

**Fast and efficient**

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

**Optimizing 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 Family units fit in seamlessly with your existing infrastructure
- Easily connected to conveyor technology
- Easily adapted to special structural conditions or any other needs

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

**The Vertical Buffer Family opens up new 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 Family.

Can be perfectly adapted  
to processes and building  
layouts

High-speed picking  
for every unit size

Different bin heights  
are possible

Modular and scalable from small to large: The Vertical Buffer Family 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.





Energy consumption reduced by up to 60 % against comparable systems

Virtually zero error rate thanks to a single controlled bin

Flexible for the future thanks to various possible operating openings

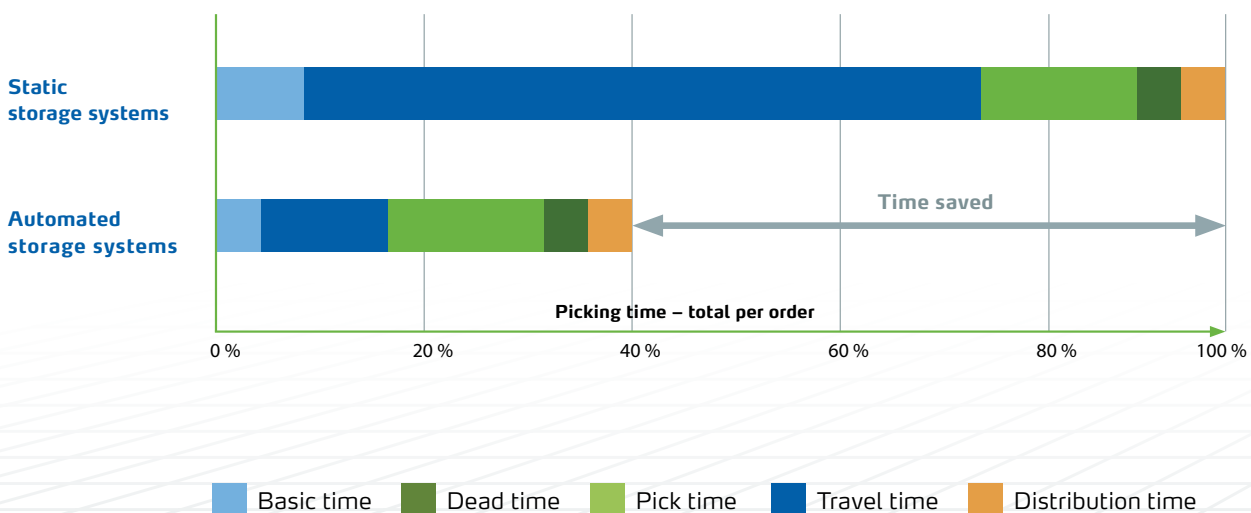
# Now and in the future. Greater productivity and performance with the Vertical Buffer Family



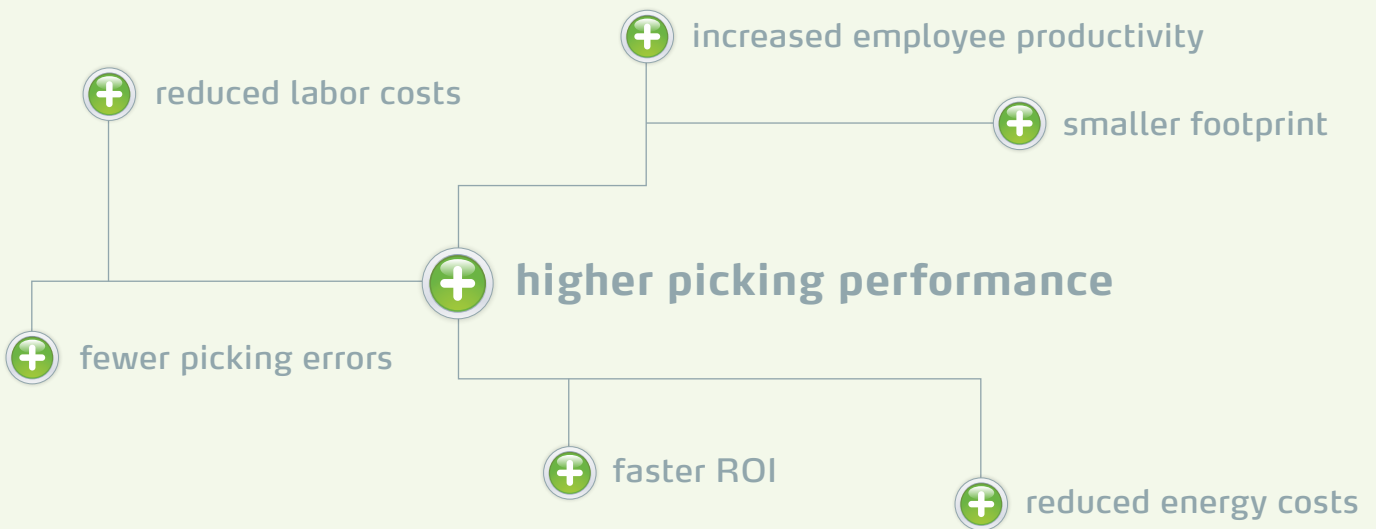
The market is changing – and we are changing with it. The new Vertical Buffer Family is our innovative response to the increasingly more diverse demands associated with modern intralogistics.

Secure a competitive edge by optimizing intralogistics

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



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



## Kit assembly



The Vertical Buffer Family 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 Family 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 Family 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 Family: More performance. More flexibility. More convenience.



The Vertical Buffer Family from Kardex Remstar optimizes 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 Family 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 Family 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.





**Unit software**

The best solution 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.

**Assembly**

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

**Internal transport**

Maximum flexibility with one single system for all areas.

**Storage**

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



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





### Technical data

#### Performance\*

- High order picking performance based on bin cycles and number of order lines
- Max. total load 138,891 lbs (63 t)
- \* Depending on unit design and process

#### Bins

- Standard mini-load system compatible bins
- 15.75" x 23.62" (400 x 600 mm) (up to 17.32" x 25.20" (440 x 640 mm))
- Load 77 lbs (35 kg) per location

#### Unit dimensions\*

- Width 6.3 to 34.4 ft (1,920 to 10,470 mm)
- Depth 7.7 ft (2,350 mm)
- Height 9' 10" to 39' 8" (3,000 to 12,000 mm)
- \* Bin dimensions 15.75" x 23.62" (400 x 600 mm)

#### Unit vertical steps

- 3.9" increments (100 mm)

### 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
- 23.6" x 15.7", up to 25.2" x 17.3" 600 x 640 mm, up to 640 x 440 mm
- Load 77 lbs/location (35 kg)

#### Unit dimensions\*

- Width 51.2" (1,300 mm)
- Depth 68.9" (1,750 mm)
- Height 9' 10" to 39' 8" (3,000 to 12,000 mm)
- \* Bin dimensions 600 mm x 400 mm

#### Unit vertical steps

- 3.9" increments (100 mm)

### 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
- Vesa bracket for monitor
- Clearance control
- Preparations for fire protection systems

