KRAMP

It´s that easy

Kramp relies on the new simplicity of the OSR Shuttle™ Evo

The international Kramp Groep with headquarters in Varsseveld, the Netherlands, was founded in 1951 as a one-man operation. Today, Kramp is Europe's largest specialist for spare parts and supplies for the agricultural sector and is on course for strong growth. In keeping with their slogan *It's that easy*, smooth logistics and great customer service are the cornerstones of Kramp's success. For several years, Kramp has been relying on the intelligent automation solutions by KNAPP for their warehouse logistics. In order to support further growth and to further optimize the service for its customers, Kramp selected an automation solution that utilizes the OSR Shuttle™ Evo for its company headquarters in Varsseveld.

KRAMP

Specialist for agricultural technical supplies

Location	Varsseveld, Netherlands
Sector	Wholesale
Distribution network	Deliveries in 26 European countries
Mission	Optimal customer service through efficient logistics
In operation since	2018
Special features	OSR Shuttle™ Evo

Logistics made easy

Thanks to positive business developments and promising growth targets for the coming years, Kramp faced the prospect of re-organizing their logistics as well. For the company, logistics has to follow their slogan It's that easy: The system must be able to easily handle a large stock of more than 200,000 items and deliver them overnight to customers with the least amount of effort. The following challenges were to be mastered:

Need for high storage capacity:
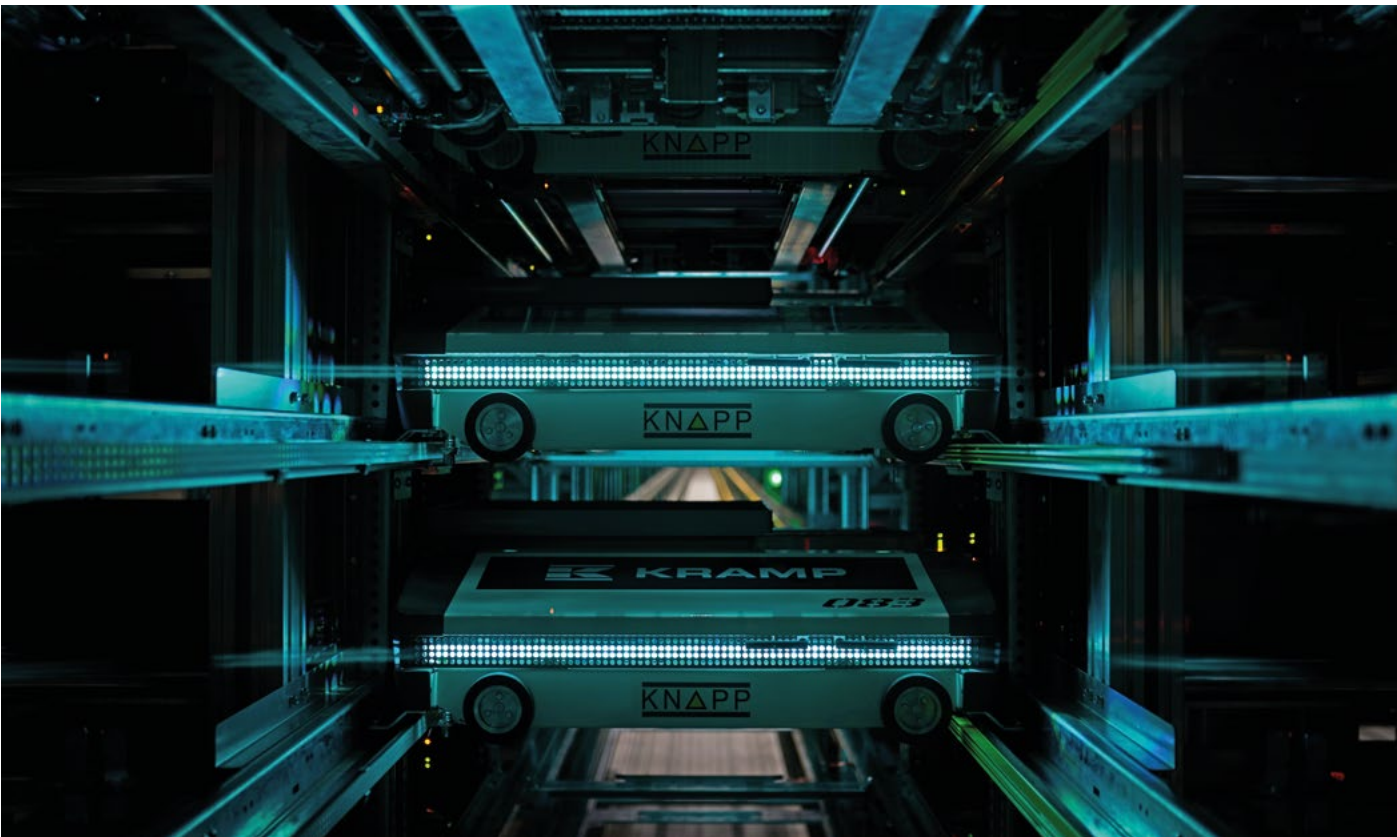**Over 200,000 items in stock**

Increasing number of orders

Short delivery times

Challenge accepted

René Wolters, Managing Director, KNAPP Benelux B.V. had the right solution for Kramp's complex challenges right from the start.

"We've noticed that customer expectations are changing. Our customers want faster delivery, a greater selection and more spare parts. As a result, our shop keeps growing and we need more space. We also want to be flexible and deliver orders quickly."

Jan Frans Berends
Logistics Director
Kramp Group

I remember the workshop in which we discussed the required extension possibilities for the solution. KRAMP asked for up to 2x the storage and 4x the output capacity compared to the starting configuration. We presented our OSR Shuttle™ Evo 2D solution – which is the perfect answer for this required flexibility. Almost literally, you saw 'the light switching on' above the head of Jan Frans. In that moment we were convinced that we found the right answer.

René Wolters
Managing Director
KNAPP Benelux B.V

Ordered today, delivered tomorrow.

The interplay between an innovative shuttle system, ergonomically designed work stations and an intelligent software solution support Kramp in continuously optimizing their service for customers.

★ **One-stop picking using the goods-to-person principle at 8 Pick-it-Easy work stations**
★ **Intelligent software solution with KiSoft**
★ **OSR Shuttle™ Evo for fast, medium and slow-moving items as well as overstock**
★ **Step-by-step expansion – 9,600 order lines per hour by project completion**
★ **134,400 storage locations**

OSR Shuttle™ Evo

More than just an automatic storage system

The heart and highlight of the solution is the OSR Shuttle™ Evo. The automatic storage system is 80 metres long, 25 metres wide and 18 metres high. Currently, it comprises six rack line systems with 134,400 storage locations and 120 shuttles.
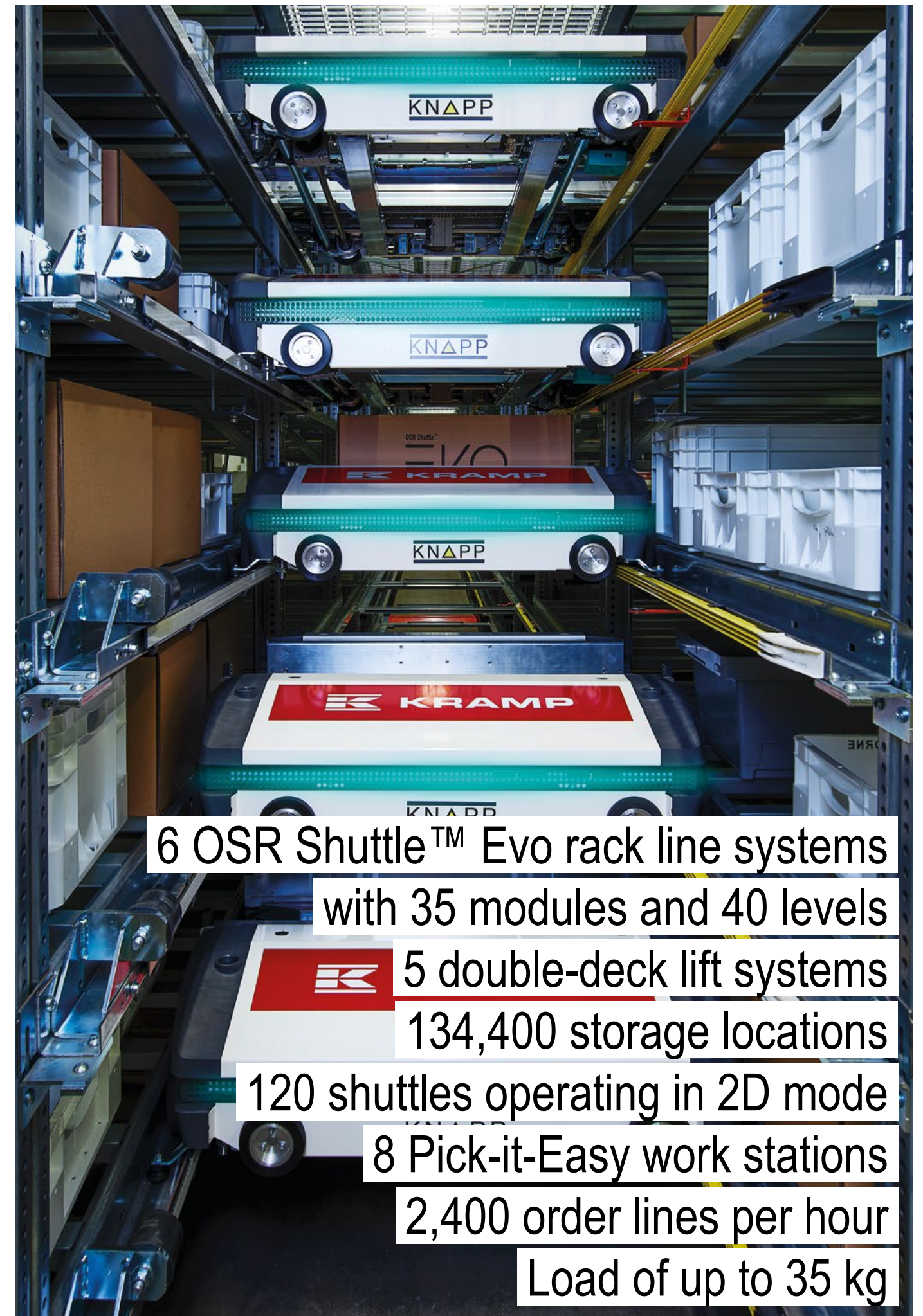
The distinctive system design of the OSR Shuttle™ Evo offers the possibility of decoupling performance and storage capacity from one another. The shuttles can change between rack line systems if necessary, allowing them to access all the items on a single level. If higher performance is needed, several shuttles can also be installed on each level to increase throughput.

All types of items – fast-, medium- and slow-moving articles as well as overstock – are stored in the OSR Shuttle™ Evo in a cost-effective and space-saving way.

Thanks to its modular structure, the system can easily be extended step by step. By the end, the output will be 9,600 order lines per hour. The rack can be extended to 13 rack line systems with 291,000 storage locations. This provides plenty of room for storage and future growth.

Buffering orders

The OSR Shuttle™ Evo at Kramp is more than just a storage system – it can also be used to buffer completed orders. As soon as all the goods for an order are available, they are automatically retrieved from the rack line system and prepared for dispatch.

6 OSR Shuttle™ Evo rack line systems with 35 modules and 40 levels
5 double-deck lift systems
134,400 storage locations
120 shuttles operating in 2D mode
8 Pick-it-Easy work stations
2,400 order lines per hour
Load of up to 35 kg

Advantages

Data-driven system
All-in-one solution that includes software, a complete overview of the warehouse stock, highest availability and an intelligent system design

Performance on demand
Scalable number of shuttles and lifts mean that the design can be fine-tuned; shuttles can move lengthwise and crosswise within the rack and can change between rack line systems

More than just storage
Central storage of stock and overstock; all important processes handled in one system: Buffering, precise sequencing, picking, supply of warehouse areas

Dynamic access
All the items in the system can be accessed from any work station

Scalable investment
The system grows with changing requirements and business models

Optimal space utilization
Flexible rack line system; streamlined system design; increased storage density of stored items

OSR Shuttle™ Evo
The new simplicity

Optimizing customer service with OSR Shuttle™ Evo

Jan Frans Berends, Logistics Director at Kramp, talks about the OSR Shuttle™ Evo:

Why did you choose the OSR Shuttle™ Evo?
We decided on the OSR Shuttle™ Evo because it is flexible, scalable and expandable with respect to shuttles, lifts and the rack system. The fact that goods are sequenced as soon as they leave the rack also really spoke in favour of the system.

What benefits does the OSR Shuttle™ Evo have for you?
The level of service is increased by using the OSR Shuttle™ Evo: We can expand our article range and increase its availability, because we can always draw from the overstock in the system. What's more, the system works so incredibly fast that we are able to extend the periods in which our customers can place orders.

What are your goals for the future?
By project completion, the system will be double the size of today's system. The great advantage is that we can expand step-by-step, whenever and however we need to, because we cannot precisely predict how our business will develop.

KRAMP

1 The combination between ergonomic design and the highly user-friendly easyUse interfaces create a modern work environment.

Pick-it-Easy

Ergonomics, performance and efficiency

Regardless of the sales channel, all the goods are picked according to the goods-to-person principle. There are eight ergonomically designed goods-to-person work stations from the Pick-it-Easy series for efficient manual single item picking. Employees always receive the goods in the right sequence and at a comfortable height. Intuitive easyUse user interfaces support them in the error-free processing of orders.

The Pick-it-Easy work stations also allow for efficient one-stop handling: The items are picked directly from the source cartons into the dispatch cartons. Each item is therefore handled only once before being shipped. The target container is directly fed to the Pick-it-Easy work station where order picking is completed. This boosts efficiency while simultaneously reducing the workload.

The Pick-it-Easy work stations are state of the art in terms of their ergonomic design and allow efficient picking with low error rates.

The ergonomic work station series Pick-it-Easy and the OSR Shuttle™ Evo form a perfect team. Every work station has access to every item in the system.

Keep track of what's going on:
Complete control and
transparency thanks to KiSoft SCADA

KiSoft

The intelligence for optimal system use

Orders from 200,000 items stored in the OSR Shuttle™ Evo are completed at eight work stations according to the one-stop principle. KiSoft – the central software for the intelligent integration of human and machine – ensures that orders are picked correctly and delivered overnight.

As early as in the storage process, KiSoft selects the ideal storage location for each item to ensure that the weight on the rack is distributed evenly and all the items can be accessed ideally. By directly controlling all components in the warehouse, KiSoft makes each item available at the work stations in the required order and with maximum performance.

The system is used to its full potential as the shuttles operating on one level have access to all rack line systems and can therefore reach all items on one entire level. If higher performance is needed, more shuttles can be used added to increase throughput.

KiSoft makes it possible to optimally spread order processing throughout the day to prevent peaks in the work load. If required, the orders can be buffered in the OSR Shuttle™ Evo. The order is retrieved and prepared for shipping shortly before its dispatch time. This way, the space needed at the dispatch staging area is kept to a minimum and the dispatch process as lean as possible.

KiSoft SCADA

KiSoft SCADA greatly supports the optimization of system availability through error prevention and the rapid localization and resolution of any error situations.

KiSoft SCADA provides a clear visualization of the entire system and complete overview of the technical state of all the components within the system. The software does not only serve to display, however, but also to maintain individual components. It can be used on a range of different end devices, for example at the control centre using several monitors or on a tablet for maintenance work carried out directly on the component.