

Jungheinrich customer reference

thyssenkrupp opts for mobile robots.



Greater efficiency in automotive production.

The automotive industry demands speed, precision and quality. In order to remain competitive despite precise scheduling requirements, complex transport processes and a growing shortage of skilled workers, thyssenkrupp Dynamic Components decided to automate production supply and disposal at its Ilsenburg site. Thanks to a holistic logistics solution with automated guided vehicles (AGVs), control technology, racking systems and a premium software package to ensure availability, the company can now achieve maximum throughput performance and process reliability at the world's largest camshaft production site.

40 LOAD CARRIERS – ONE SOLUTION.

At thyssenkrupp's Ilsenburg plant, the world's largest camshaft production facility, is now serviced by four EKS 215a automated guided vehicles (AGVs). These compact and versatile high-lift AGVs supplied by Jungheinrich are perfectly suited to the customer's complex mixed operation requirements. Cantilevered forks and a high residual capacity enable the transport of pallets with and without a centre block. The EKS 215a vehicles provide flexibility for the transport of high-tech components by over 40 different load carriers.

SAFETY REMAINS THE TOP PRIORITY.

As well as high process reliability, the customer was particularly focussed on the safety of the employees on site. Thanks to intuitive operation with interactive functions and state-of-the-art safety sensors, the automated EKS 215a ensures seamless and safe collaboration between man and machine. "We have gained four valuable employees who do not operate in isolation from our employees, but work together with them as a team," states Martin Endres, Project Manager in Supply Chain Management, when asked about the use of the automated guided vehicle systems in production.

HIGH AVAILABILITY THANKS TO PREMIUM SERVICE.

To maintain the high throughput performance at the Ilsenburg site, the premium software package provided included long-lasting, advanced lithium-ion technology

with extremely short charging times and a full service package with spare parts. "Since we operate in three or even four shifts, high availability is essential. Jungheinrich guarantees this availability with an extensive network of service technicians who can work remotely or on site to get our trucks back into operation in the shortest possible time," explains Martin Endres.

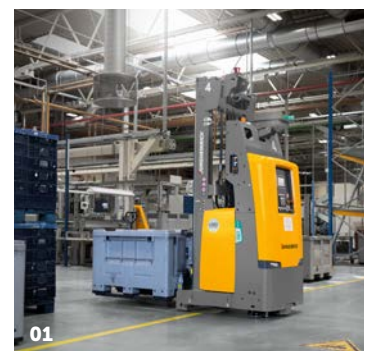
Man and machine working in harmony.

JUNGHEINRICH AS A TOTAL SOLUTION PROVIDER.

The advantage of the holistic automation solution provided by Jungheinrich is that faulty components can be replaced quickly. The Jungheinrich service technicians are very familiar with the trucks and can resolve most error messages remotely. "If there is a system downtime in our factory late in the evening, a service technician will be on site in less than four hours," says Martin Endres, singing the praises of the full-service package. We are confident that all trucks are 100 percent functional at all times, and we hope this will lead to further automation projects in the future.

01
The EKS 215a automated guided vehicle takes over the automated storage and retrieval of pallets in production.

02
Full service for maximum productivity: A dense network of Jungheinrich service technicians ensures the continuous availability of the system.





“ The EKS 215a offers the perfect solution for our unique requirements. ”

Frank Berends
CEO thyssenkrupp
Dynamic Components

**We talk to
Frank Berends,
CEO of thyssenkrupp
Dynamic Components.**

What were the main reasons for automating production in Ilsenburg?

We have no time to lose in daily logistics processes. We have to hit our targets reliably and deliver the components to the customer as quickly as possible. Since our transport processes are so complex and involve 40 different load carriers, we hoped that automation would bring more structure to the order picking process. It was also important to ensure continuous operation in our factory at all times and to counteract the increasing shortage of skilled workers or possible absences due to illness. That is why we opted for a mixed solution of automated and manual trucks.

Why did you choose the EKS 215a and are you happy with it so far?

For our diverse product range we need trucks with high flexibility. The EKS 215a fits our requirements perfectly, as it can accommodate pallets with or without a centre block – an important factor given the large number of load carriers we use. So far, the introduction of the AGVs on site has gone without a hitch, thanks in large part to the safety features on the trucks. Of course, there was a certain amount of scepticism beforehand regarding mixed operation. But now, everyone is very enthusiastic about the new system. I would even say that it has exceeded our expectations.

How has it been working with Jungheinrich, and would you recommend them as a partner?

Jungheinrich is a trusted partner in the automation sector, and we hope to roll out further systems of this type to other plants in the future. We formed a close, trusting relationship during implementation. Even after the project was completed, Jungheinrich's team was committed to making expert adjustments to the system. This left us in no doubt that we made the right choice. Jungheinrich is fast and reliable, and I would not hesitate to recommend working with them.

THE PROJECT AT A GLANCE



Customer:	thyssenkrupp Dynamic Components
Sector:	Automotive industry
Company size:	850 employees
Location:	Ilseburg, Germany
Warehouse size:	40,000 m ² of storage space

CHALLENGE

Automation of warehouse processes with a variety of different load carriers and implementation of a logistics solution for efficient mixed operation using automated and manual trucks.

JUNGHEINRICH SOLUTION

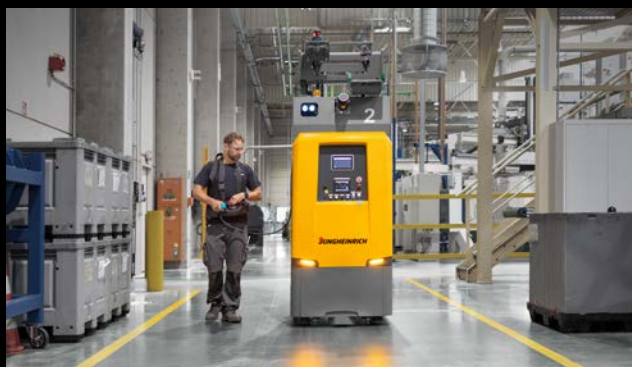
Automation solution consisting of an automated guided vehicle system with four EKS 215a trucks, EJC pallet trucks, racking systems, a premium software package, and a full-service and spare-parts package to ensure high availability.

RESULTS

Four-shift operation without downtime due to employee sickness, enhanced safety in production operations and improved process reliability through clearly defined processes and specified storage positions.

IMPRESSIONS

State-of-the-art safety sensor technology ensures a high level of protection for employees in man-machine operation.



The intuitive interface and manual intervention options offer maximum flexibility in the operation of EKSa trucks.



Always ready: The EKS 215a receives transport orders in prioritised order via the Jungheinrich Logistics Interface and processes them reliably.

Whether remote or on-site: Jungheinrich service technicians will find a solution to any problem in the shortest possible time.