

Körber Supply Chain

Making robotics a reality: Körber's 3-step AMR roll out

Simple deployment | Modular application | Intelligent moving | Cost-effective



Fixed warehouse infrastructure has been a staple in the logistics sector for more than a decade now. However, despite the benefits of streamlining key logistics processes through fixed automation hardware, the flaws lie in its inflexibility and costly implementation.

Traditional storage facility architecture is too blunt a tool for the modern supply chain business. Major logistics hardware systems don't allow enterprise leaders to respond agilely to problems as they arise, and aren't scalable to changing needs. They are also expensive and come with lengthy research, development and roll out times.

That's where automation empowers logistics operators to improve supply chain processes. Adaptable to individual needs and designed to integrate seamlessly with existing warehouse management systems, modern robotics suit businesses across all industries and growth stages.

The robotics range fulfills essential functions in warehouse management and goods picking, including:

- Goods transport
- Order picking and packing for delivery
- Stock sorting and counting

The difference between the AMR solution and a traditional system of fixed logistics infrastructure and human operators is how it revolutionizes productivity.

Key statistics:



Super-fast travel

AMRs can travel at 1.5m (5 feet) per second – roughly 100m (330 feet) per minute



Precision navigation

AMR software means goods are picked, moved and sorted with 99.8% accuracy



AMRs are strong

AMR devices are capable of moving a 1,000kg (2,200 lbs.) load and can operate in temperatures as low as -30 degrees Celsius (-22 degrees Fahrenheit)



Increased productivity

AMRs can move up to 200 lines hourly (compared to 30 with human operators)



Lower Costs

AMR solutions can save up to 50% of your floor space and lower costs by millions per year

Furthering the advantages of the Körber AMRs, we seamlessly integrate the robots into your existing supply chain infrastructure. This offers a cost- and time-effective solution to delivering instant return on investment from your operational revamp.

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Körber's 3-step AMR roll out

Delivering the **right solution in the right way**

To totally customize the automation solution to the needs of your organization, the robotics roll out normally takes a three-step process.



Step 1.
Discovery.



Step 2.
Implementation.



Step 3.
Entrenchment.

This ensures your business receives a ready-to-go solution that you manage into the future.



Step 1: Discovery

Getting the automation solutions team involved

The discovery process is crucial in a robotics roll out. Tailoring an innovative automated solution to the needs of your business means knowing your organization, inside and out. Processes, productivity levels, existing warehouse infrastructure - even storage facility space and layout are development factors. That's why we involved each of Körber's key project teams from the outset.

Reach out to our sales team and you'll find friendly and approachable specialists on hand to get the ball rolling on your roll out. The next step involves linking the project management team and an automation solutions developer into the chain of communication to expand on your requests.

While every business can benefit from integrating AMRs into operations, not every organization will enjoy significant returns from a large-scale automation system deployment. Smaller projects with immediate returns may suit some, while a total national supply chain overhaul may be a better long-term fit for others.

We don't work with the mantra of 'whatever suited the last client'. Your automation solution needs to suit your unique processes, and that attention to detail can't come from treating every project as a rinse-and-repeat.

Visiting your facility

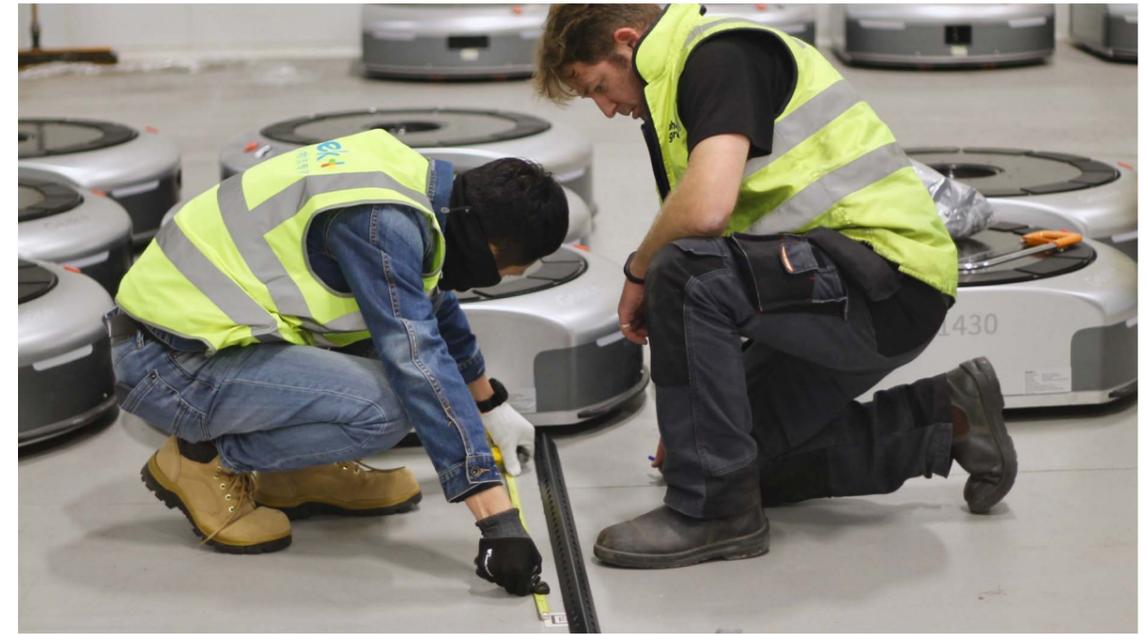
That makes onsite warehouse visits critical. Our project management team and consultants will assess your facility's key infrastructure and opportunities for AMRs to improve operations. We also analyze process efficiency and your existing equipment, checking what operational elements could be incorporated into a more streamlined production system going forward. Warehouse layout will also have a significant impact on the scale of the robotics roll out. That makes assessing all the relevant factors early in the project ensures we deliver appropriate recommendations.

From there, we crunch some numbers. Access to key processing figures and efficiency data helps us determine your stand-out strengths and weaknesses. This makes it easier to track project KPIs and map out an automation blueprint early on. Focusing on these datasets also makes it easier to track ROI and internal change yourself, measuring our success against your success.

The agility of our core team, between assessment, blueprint stage, project management planning and solutions development mapping, means this process can take as little time as one week. From there you get a comprehensive report on your business' existing infrastructure and the opportunities offered through a robotics roll out. Then the decision is up to you.



The agility of our core team means the discovery process can take as little time as one week.



Step 2: Implementation

Beginning development

More than 75 percent of first-time clients move forward from the first phase to green light a robotics project deployment. Whether a minor project within existing logistics infrastructure or a large-scale roll out of a new automated solutions system, you must be certain your decision is the right one.

From facility layout to productivity information, our team analyze all datasets to generate a blueprint of the customized automation solution that fits your operations. While making adjustments to the core features of the AMRs, our local support team will use their own mapped design frame to develop supporting software. This will help to integrate your robotic units with an existing warehouse management system during the formal roll out.

Our project manager will check in with you regularly to update you on progress and manage time frames and budgets. Deploying our automation solutions quickly is critical to our offering, which is why we focus on ongoing checks for improvement opportunities.

Testing your solution

Next is the testing phase. Checking for functionality issues and identifying high performing features here saves on going back to the drawing board after the project is completed. We test these attributes both against your KPIs and existing datasets, to gauge the most accurate picture of how the robotics roll out will benefit your operations.

[Project length is dependent on numerous factors, but most of our clients have their new AMR system integrated and running, and trained staff on all key processes, within six months.](#) This rapid turnaround is critical to the improvements automation can deliver. Adding traditional fixed infrastructure GTP solutions to your facility can take a year or more, depending on the complexity of the roll out.

We understand that having your supply architecture up and running as quickly as possible minimizes the impact on your bottom line. That's why we continue working with you past the final testing and deployment stages to ensure every operator in your business can get the best from the AMRs.



Step 3: Entrenchment

Working on a change management policy

Automation isn't just about integrating shiny new technology into your warehouse – it's as much a culture change as it is about hardware. While the general consensus on robots is changing, some are still wary of robots replacing human workers across the board. That's why training employees and developing a change management policy that outlines the reality of the automation effect is core to the AMR team's values.

Our automation solutions developers and project managers come on site after final testing to deploy the AMR solution in your warehouse and demonstrate the abilities of automation first-hand. This is vital as it shows the human side behind robotics, that it won't erase jobs but instead give workers a platform to upskill and manage more complex tools. Robots are simply an opportunity for logistics businesses to optimize existing operational structures. Even a full system overhaul still necessitates complex problem-solving and communication tasks robots are unable to manage.

Our developers work with your staff to ensure each individual understands their new role in the warehousing process and can aid and operate the AMRs if necessary. Entrenching a positive perception about automation is an important step to ensuring your business progresses long term.

Final project analysis

The final step in our robotics roll out is a project analysis and breakdown. Our sales team will run through datasets and aspirational figures from the beginning of the project to assess KPIs and other operational targets, as well as estimate ROI within a set time frame. Our project manager will discuss all activities completed and steps going forward, while our developers will devise a communications plan for any issues in the immediate future. Local support services for your automation solutions are available at all times from our core AMR project team. This easy-to-hand support saves you time and expenses chasing overseas suppliers for help when you need it.

From this point on, our relationship with your business is about continuous enhancement. We work to develop a solution that matches your organization, inside and out - and that means automation that changes with you. Regular assessment of your infrastructure helps us with ongoing improvement and performing small upgrades that can make a big difference.

Are you ready to discuss an automated system that suits you? For help, catch up with the Körber team. Our developers, project managers and logistics experts utilize in-house knowledge and enterprise partnerships to develop and deploy AMRs customized for your business.

Learn more about us here:
<https://www.koerber-supplychain.com/supply-chain-solutions/warehouse-robots/autonomous-mobile-robots>

