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- The background image shows a warehouse interior with two RoclA AGVs. On the left is a compact, green and black AGV with a small screen on top displaying a Twitter logo and the number '5'. On the right is a larger, black AGV with a mast and forks, carrying a wooden pallet. It has a screen on its mast displaying the number '2'. The warehouse has green structural beams and a polished floor with green lane markings.
- Improve your material flow efficiency
 - Learn how AGV technology can reduce costs at your warehouse
 - Find out more about the benefits of digitalisation to your logistics process

RoclA AGV Solutions for Warehouse Logistics

RoclA

Rocla AGV Solutions for Warehouse Logistics

Smart automation, intralogistics expertise, and full-service support

Manage the material flow with a low total cost of ownership

Introducing automation to your existing processes helps increase the efficiency of your warehouse logistics, improve space utilisation and inventory management and enhance safety and the material flow control. Our Rocla AGV solutions offer an easy integration of this technology, due to not needing to stop production during the project implementation.

We combine technology, processes, and expertise to support your manual transports with automated guided vehicles, helping you improve logistics productivity.

Thanks to our wide range of AGVs, all compliant with the ISO 3691-4 safety standard, we can assist and enhance safety in a variety of processes. Rocla ART, ACT, VNA and the Counterbalance AWT are ideal for tasks such as material transport, inventory management, order fulfilment, pallet handling, assembly line support, cross-docking or returns processing, enhancing efficiency and productivity as well as transparency and traceability.

The FleetController software connects with the existing WMS (Warehouse Management System) and keeps the fleet running automatically, optimising the orders and routes of the material flow, allowing cost-efficient remote diagnostics and support for your onsite maintenance.

In order to increase traceability, you can always have a real-time view of your entire fleet and transport orders thanks to our in-house developed FleetController Dashboard. We assess your operations to determine the appropriate level of automation and design a tailored solution and design mixed or fully automated intralogistics solution, including warehouse layouts, transport capacity, and availability requirements.

Our service agreements cover all preventive maintenance needs and you can choose a suitable service level, ranging from essential support to full.

Benefits of automation in warehouse logistics



Logistics process owner

- Support transformation to 24/7 operation
- Automate standard transports
- Increase control through real-time transport monitoring
- Support manual operations with AGVs



Logistics manager

- Apply lean practices for the entire material flow
- Increase warehouse performance and transport efficiency
- Improve logistics quality
- Take benefit of Just-in-Time transports



Management

- Liberate human resources to more productive tasks
- Integrate easily with WMS to minimise the IT spend
- Save energy and build sustainable operations
- Reduce transport damage losses with AGVs



Maintenance

- Improve preventive maintenance
- Reduce upkeep workload by remote diagnostics
- Gain insight from maintenance data analysis



Results-driven mindset with industry experience



Logistics industry know-how

We guide our solution planning and maintenance to achieve your logistics objectives. We make sure your total cost of AGV ownership stays down.



Experience

Since 1983, we have delivered over 1 000 projects and thousands of vehicles, many of which are still in active use.



Visibility

The in-house developed FleetController software and Dashboard let your operators monitor, optimise, and maintain your fleet with real-time information.



Global reach

Rocla is a part of Mitsubishi Logisnext. We offer equipment and service globally. You can take the benefit of our extensive network, product offering, and a variety of expertise.



Quality and design

We are able to manufacture 18 000 forklifts per year, including AGVs. Every vehicle goes through extensive testing.

We have earned multiple awards including RedDot and iF Design awards or the Archies's Material Handling award. Many of our AGV features are patented.



24/7 support

Rocla AGV Service Agreements offer availability and multiple results-driven options to meet your maintenance and support requirements regardless of time and place.



Efficiency

The Rocla FleetController software offers optimisation algorithms that, among many other benefits, increase AGV efficiency compared to traditional system controllers.

Automation supports the increase of operational times up to 24/7 operations.



Data-driven optimisation and maintenance

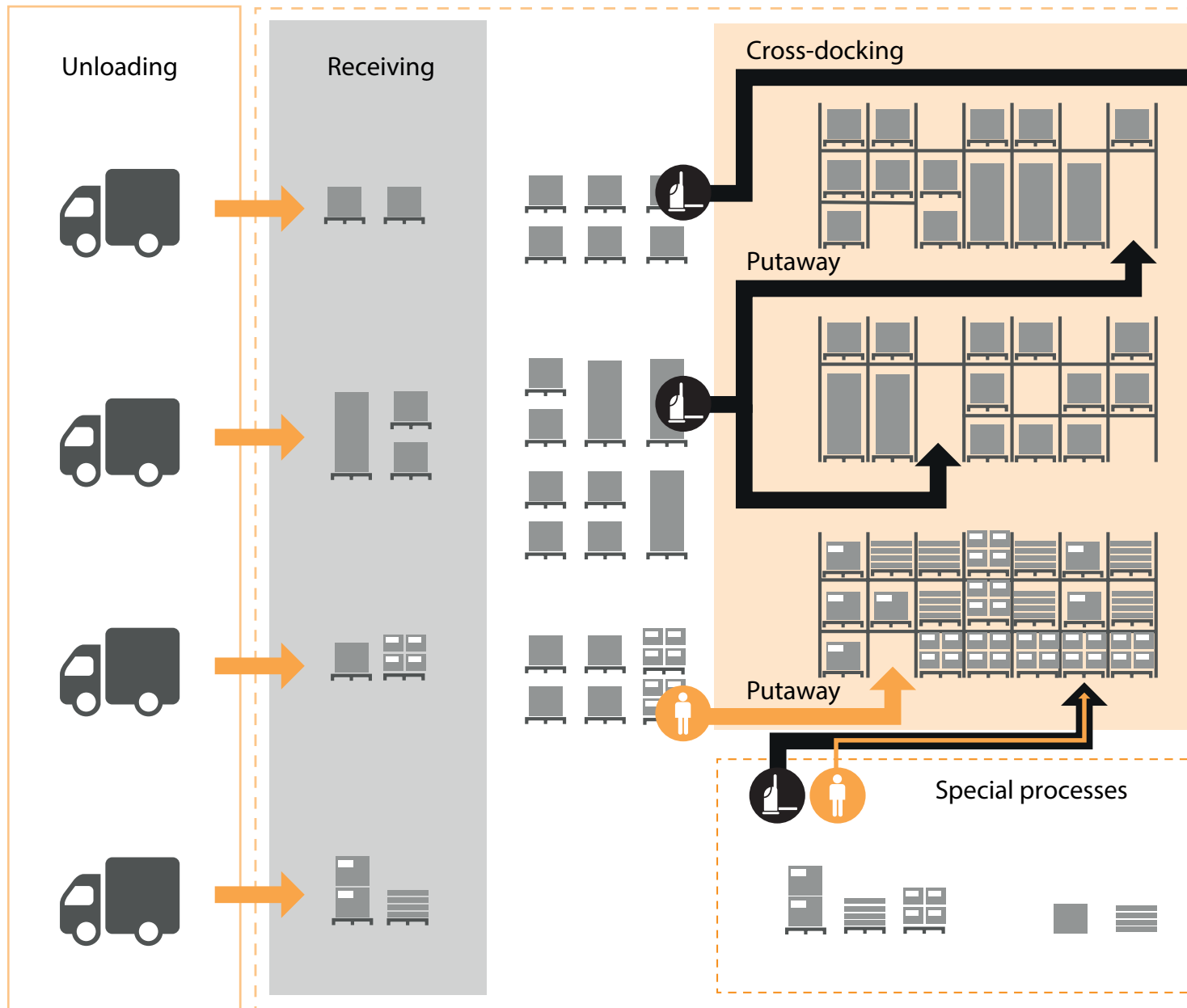
Our in-house developed maintenance program is based on actual operational hours and conditions and can generate reports on completed actions.



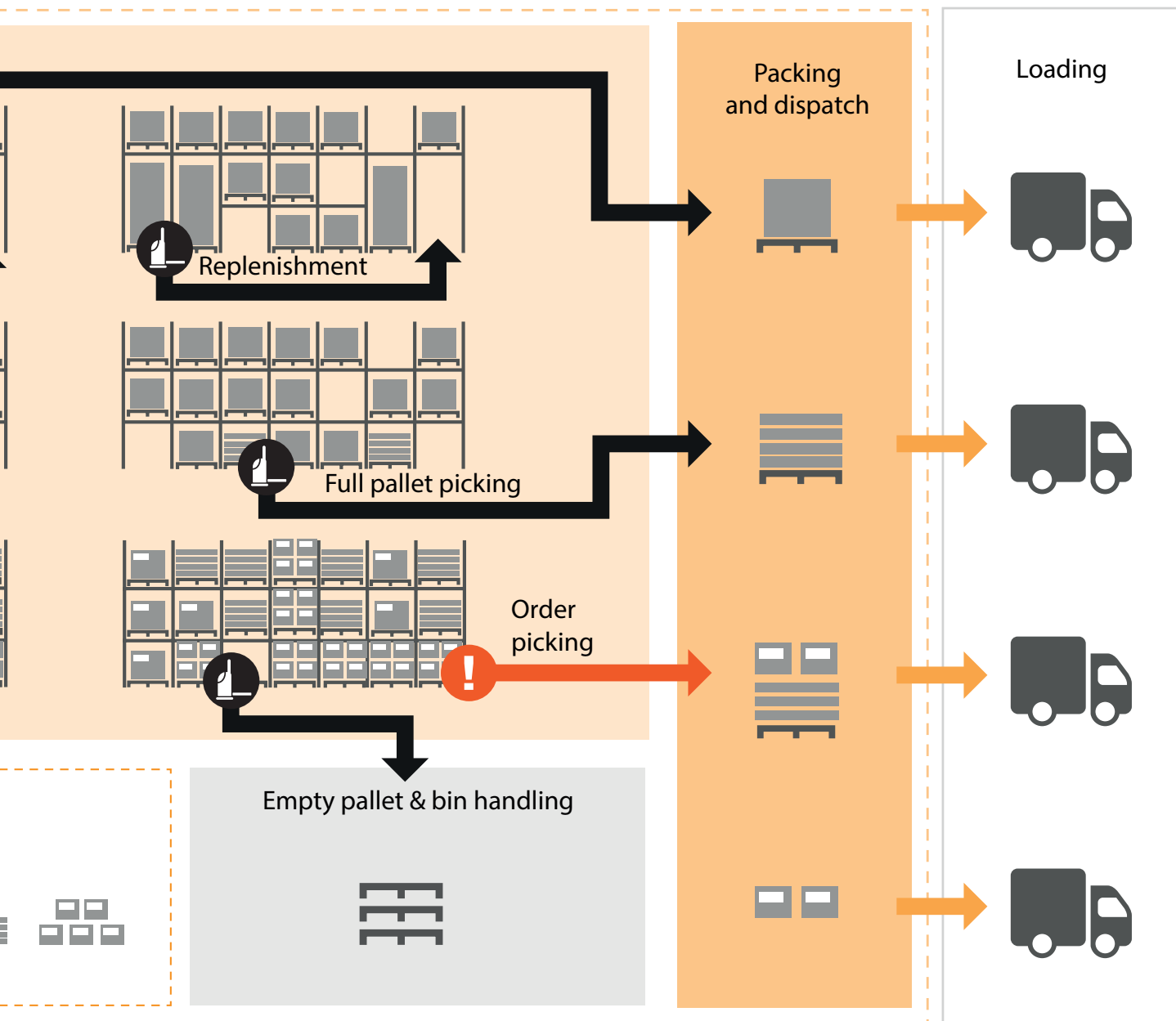
Original AGV design

Our vehicles are purpose-built without compromises of the kitted vehicles. The modular structure allows the use of the same components as in forklifts, increasing cost-efficiency.

Rocla AGV Solutions for Warehouse Logistics: Mixed Fleet



transports with real-time monitoring



! → Special cases

→ Manual operations



RoclA AGVs with Life Cycle Services:

Complete solution with full service maintenance

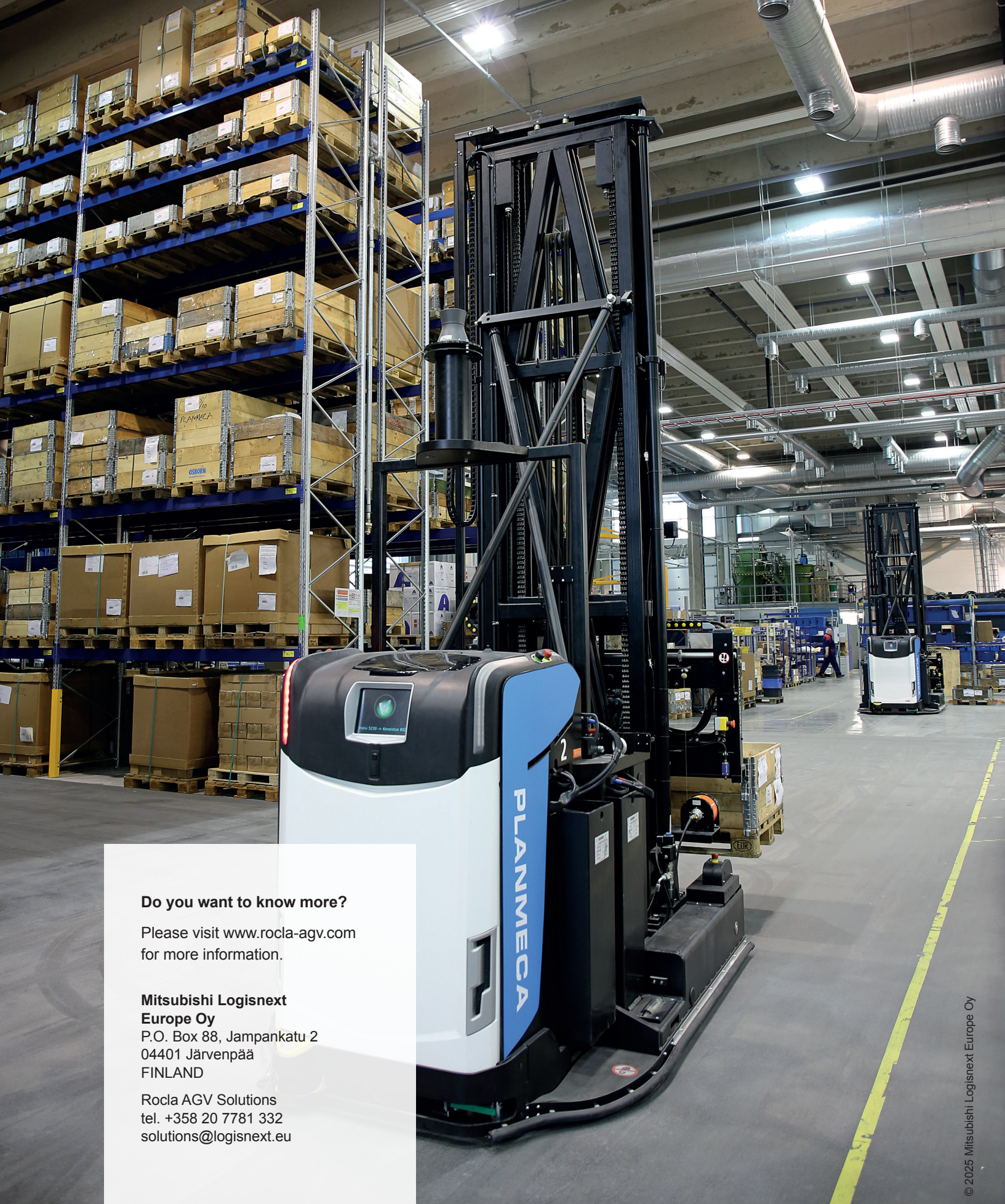
SOLUTION DESIGN AND RAMP-UP	 Audit	• Assessment of intralogistics needs and feasibility study • Solution for handling and warehousing • Maintenance process, lifecycle, and spare part criticality assessments • Financial assessment	
	 Solution design	• Warehousing and staging strategy • Intralogistics process design • AGV system layout and route design • Vehicle options adjustment • Software integration plan	
	 Implementation	• Integration to information systems (e.g., Warehouse Management System) • Interfacing with facility equipment • Factory acceptance testing at RoclA • Installation and commissioning onsite • Site acceptance test	
PRODUCTION	 Maintenance and support	• Usage-based and scheduled maintenance • Software updates • Spare part logistics with optional consignment inventory • Onsite repairs • Training of your logistics personnel • Retrofits and upgrades	RoclA AGV Service Agreements
	 Monitoring, remote diagnostics and data analytics	• Route and order optimisation • Increased capacity and automated upkeep routines • Equipment remote monitoring • Service dashboard with real-time operational monitoring • Maintenance and availability statistics	RoclA FleetController Software

How can you increase efficiency and save costs with Rocla AGV Solutions?

 Intralogistics automation - Automation enables a smart resource allocation - Deduct automation investment - Increase the intralogistics speed and capacity - Speed up carrier loading by predictive staging	 Warehouse - Increase warehouse turnover speed - Utilise warehouse space efficiently - Reduce the need to take inventory - Implement without production stops	 Energy - Save energy through efficient technology and route optimising - Environmental savings, such as warehouse lighting
 Durability & safety - The typical lifetime of an AGV is 10 years - Extend up to 15 years with controlling electronics upgrade - Reduce collisions - Remove transport damage losses	 Maintenance - Increased AGV uptime - Quick support - Cost-efficient operations - Capital cost-savings	 Monitoring and tracking - Monitor operations in real-time, recognise incidents immediately - Pinpoint process bottlenecks - Locate handled goods and trace orders in real-time

Customer reference examples of our warehouse logistics solutions

Dossin Entrepôts - Agricultural, pet, pharmaceutical and packaging industry process management through 100 000 m² of warehouses on seven regional sites 18 pallet movers and 4 ARTs carry goods from receiving to pick-up and drop-off locations while 17 tri-lateral head VNAs deliver the pallets to high-racking positions - Key benefit: The 39 AGVs contributed to efficiency, gained flexibility in their operations and reduced wastage of stock items	Bring Logistics - A leading third-party logistics provider in the Nordic region - Warehouse with 81 200 pallet places, extending to a height of 10,65 meters - Nine Rocla VNA units can transport 173 pallets/hour - Key benefits: Correct load handling, need for less personnel, and reduced energy consumption in the VNA warehouse	Valio Haapavesi - The leading dairy product manufacturer in Finland - Haapavesi factory produces 15 000 tons of cheese and 14 000 tons of industrial feedstock yearly - Key benefits: The amount of damage to vehicles, stock, and the site has been reduced by 90 %, the number of forklift operators is half of the previous, and manual shifts are down from 3 to 2
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Do you want to know more?

Please visit www.roc-la-agv.com
for more information.

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