- **Do you want to maximize your AGV fleet capacity?**
- **Would you like to discover the benefits of optimized route and order management?**
- **Would you value cost-savings in WMS integration and operations?**

ROCLA FleetController

Monitor, optimize and maintain
your AGV fleet with real-time information

Rocla

Rocla FleetController

Monitor, manage and maintain your AGV fleet

FleetController:
Flexible platform, easy integration

FleetController offers one platform that connects all components needed for efficient AGV operations. It integrates with the warehouse management system and manages your intra-logistic transports.

Traditionally much of the AGV routing logic has been managed by the warehouse management system, leading to extensive integration with the system controller. In the renewed FleetController architecture, the integration requirements are much lighter. This means savings of time and money in system implementation and modernization.

FleetController also has route and order optimization as standard features. As a result, you can increase transport efficiency and utilize bigger AGV fleets.

Dashboard:
Unified and real-time view of your fleet

FleetController comes with a Dashboard, a completely new tool for monitoring, optimizing, and problem-solving AGV operations. The Dashboard can also be implemented as a stand-alone extension to legacy AGV system controllers.

You can monitor transports and order buffers. AGV operators have more information about the real-time and recent operations of the fleet. The dashboard automatically flags and locates incidents requiring operator attention.

Dashboard connects with the cloud, backing up your data and allowing predictive and corrective remote diagnostics with Rocla support.

For factory and warehouse operators

Monitor the AGV system and manage your intra-logistic operations.

For technology and logistics managers

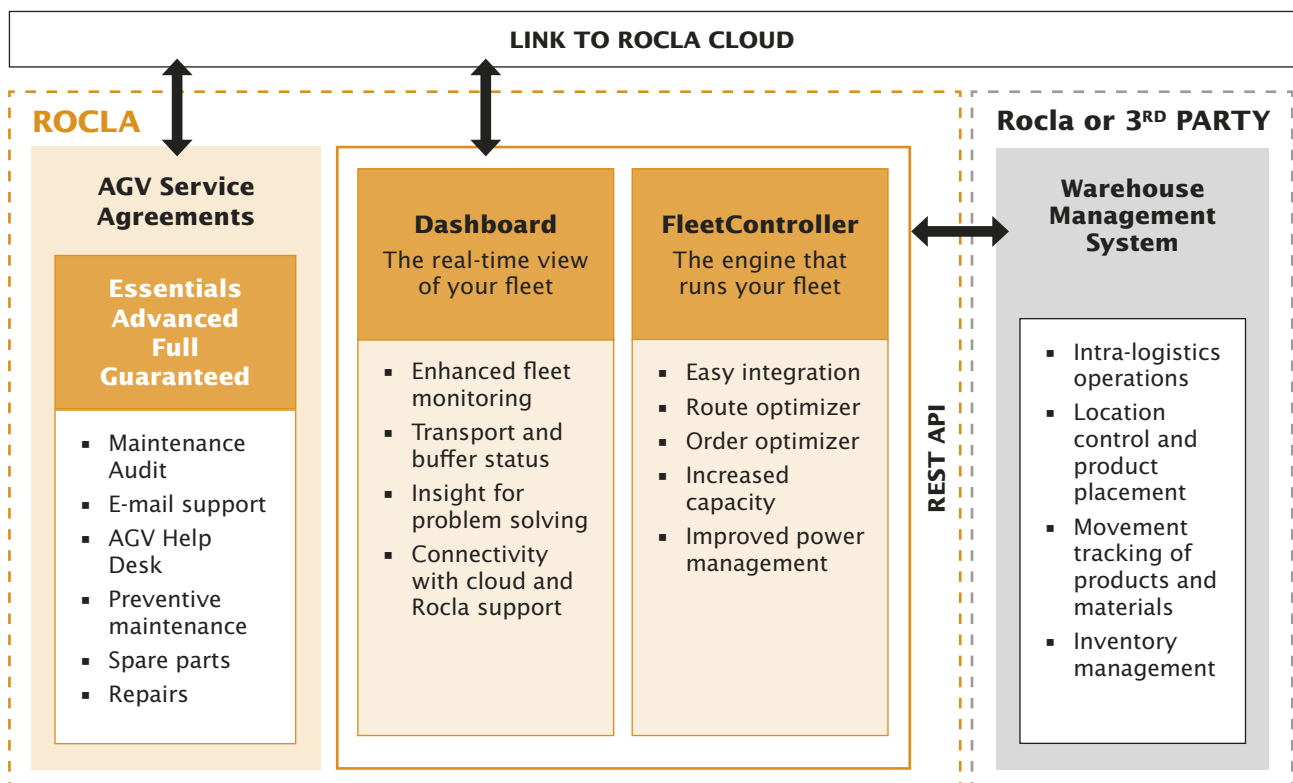Optimize system performance and solve operational problems.

For maintenance

Utilize the AGV system and vehicle data in problem-solving.

Easy and cost-effective integration with the Warehouse Management System

LINK TO ROCLA CLOUD

ROCLA

Rocla or 3RD PARTY

AGV Service Agreements

Essentials Advanced Full Guaranteed

- Maintenance Audit
- E-mail support
- AGV Help Desk
- Preventive maintenance
- Spare parts
- Repairs

Dashboard
The real-time view of your fleet

- Enhanced fleet monitoring
- Transport and buffer status
- Insight for problem solving
- Connectivity with cloud and Rocla support

FleetController
The engine that runs your fleet

- Easy integration
- Route optimizer
- Order optimizer
- Increased capacity
- Improved power management

REST API

Warehouse Management System

- Intra-logistics operations
- Location control and product placement
- Movement tracking of products and materials
- Inventory management

FleetController – Optimize your operations

Dynamic vehicle route optimization

Enjoy the route optimization capability. The system can instantly select the most efficient route for each vehicle. Thanks to this unique optimization algorithm implemented in FleetController, your AGVs do more by using more efficient routing.

Prevent traffic congestion. Let FleetController's smart algorithm to do all the route planning. As a result, traffic jams are history.

Leave cumbersome manual routines behind. No manual routing or traffic rules are needed. Layout changes and commissioning are easy and fast.

Optimized orders and prioritized transports

Plan early. FleetController calculates the transport completion time. This allows forecasting the vehicle locations at the planned pick-up time. Based on the information, orders can be appointed to vehicles with optimal routes. Also, you can configure the arrival order of the transported items.

Automate order optimization. New pick-up logic prioritizes orders based on the most efficient routing, not just the proximity of the vehicle to the pick-up target.

Let FleetController manage process transports. Many routine upkeep tasks such as empty pallet returns can now be easily automatized.

Simplified integration

Save in integration costs. Run AGV operations in FleetController and keep the set-up costs down with light integration needs.

Run agile integration through REST application programming interface. The standard interface is much cheaper to use than proprietary technologies.

Fleet upgrades are now faster and easier, reducing your production downtime risk during modernizations.

Uninterrupted performance

Optimize vehicle charging and extend battery life with FleetController.

Safeguarding usage peaks. Automated preparation for high demand by smart vehicle charging logic.

Opportunity charging. Automated charging when vehicles have free time.

Increased capacity of the existing system

Simplify the fleet right-sizing. You can easily change the number of AGVs in your system with a light-weight modification by a Rocla expert.

Scale operations efficiently. Make data-guided decisions on how to increase transport capacity with more vehicles, route optimization, or by implementing operational best practices.
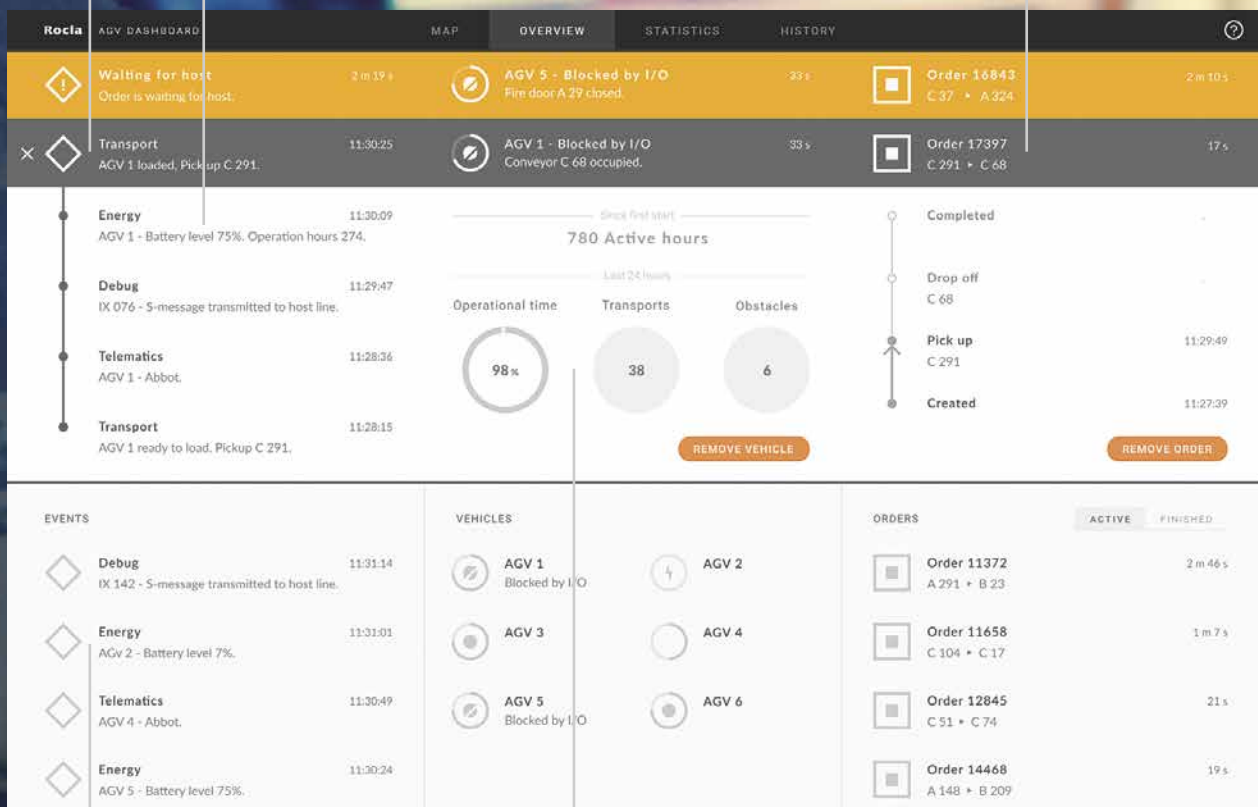
You can easily include FleetController support in the Rocla AGV Service Agreements. Contact Rocla sales and take advantage of a suitable maintenance package and the availability guarantee.

Monitor events and incidents

Drill into incidents and solve problems

Stay focused with key performance indicators

Monitor order queue and transports

Go back in history to inspect events

Optimize vehicle usage and maintenance

Rocla | AGV DASHBOARD — MAP — OVERVIEW — STATISTICS — HISTORY — ?

Waiting for host — 2 m 19 s — AGV 5 - Blocked by I/O — 33 s — Order 16843 — 2 m 10 s
Order is waiting for host. — Fire door A 29 closed. — C 37 ▸ A 324

✕ Transport — 11:30:25 — AGV 1 - Blocked by I/O — 33 s — Order 17397 — 17 s
AGV 1 loaded, Pick up C 291. — Conveyor C 68 occupied. — C 291 ▸ C 68

Energy — 11:30:09 — Since first start — Completed
AGV 1 - Battery level 75%. Operation hours 274. — 780 Active hours

Debug — 11:29:47 — Last 24 hours — Drop off
IX 076 - S-message transmitted to host line. — C 68

Telematics — 11:28:36 — Operational time — Transports — Obstacles — Pick up — 11:29:49
AGV 1 - Abbot. — C 291

Transport — 11:28:15 — 98% — 38 — 6 — Created — 11:27:39
AGV 1 ready to load. Pickup C 291.

REMOVE VEHICLE — REMOVE ORDER

EVENTS — VEHICLES — ORDERS — ACTIVE / FINISHED

Debug — 11:31:14 — AGV 1 — AGV 2 — Order 11372 — 2 m 46 s
IX 142 - S-message transmitted to host line. — Blocked by I/O — A 291 ▸ B 23

Energy — 11:31:01 — AGV 3 — AGV 4 — Order 11658 — 1 m 7 s
AGv 2 - Battery level 7%. — C 104 ▸ C 17

Telematics — 11:30:49 — AGV 5 — AGV 6 — Order 12845 — 21 s
AGV 4 - Abbot. — Blocked by I/O — C 51 ▸ C 74

Energy — 11:30:24 — Order 14468 — 19 s
AGV 5 - Battery level 75%. — A 148 ▸ B 209

All new Dashboard – Monitor operations and improve efficiency

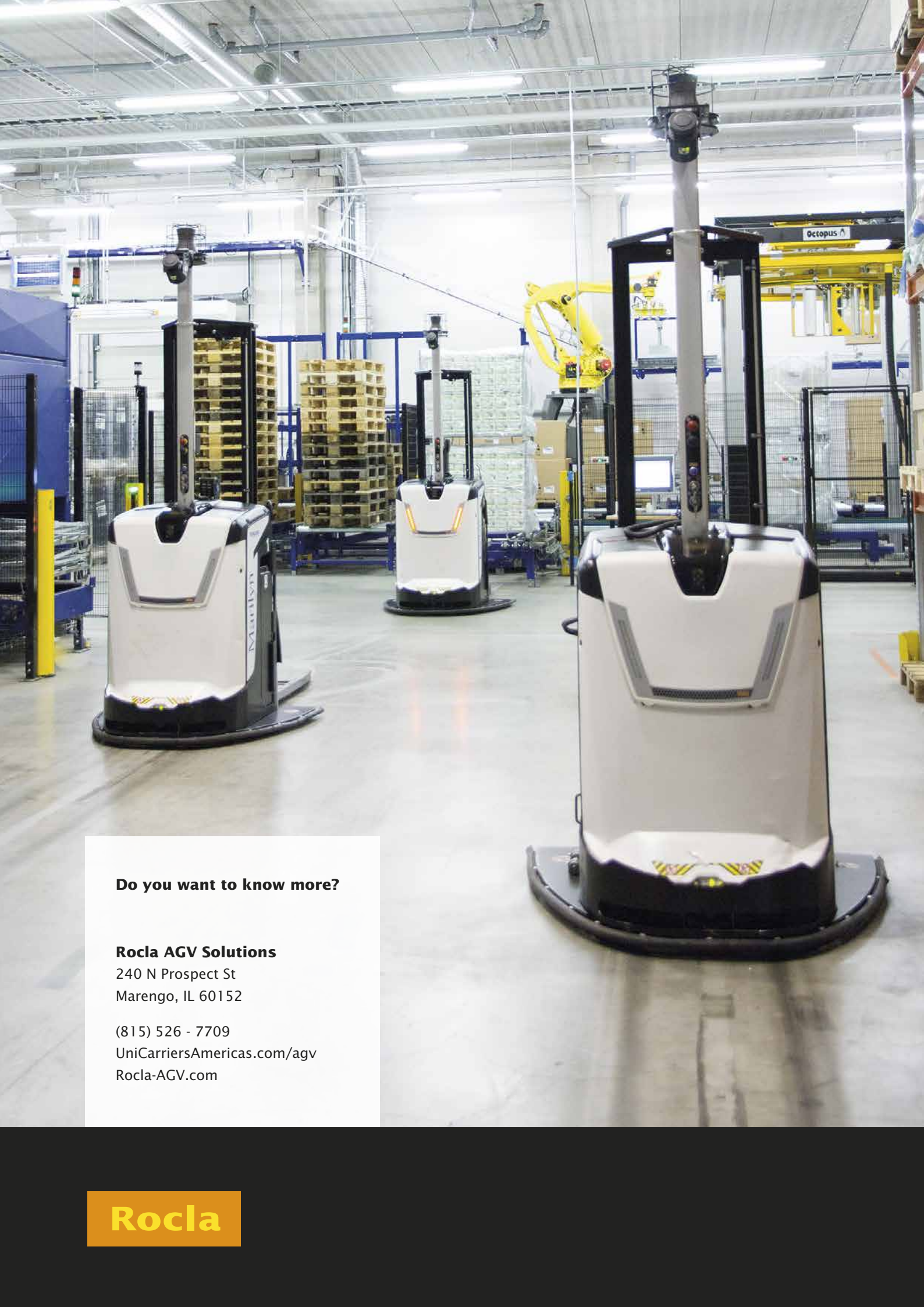| Enhanced fleet monitoring	Transport and buffer status	Operational insight for root-cause problem solving	Connectivity with cloud and Rocla support
Monitor your fleet in real-time. Gain visual insight into vehicle locations and movement. Access dashboard anytime and anywhere with any browser.	**Monitor on-going transports and queued orders.** Follow information such as operational time, number of transports, obstacles, and stop counts.	**React quickly.** Yellow and red flags indicate the severity and location of the incidents. As all incidents are logged, the analysis of non-critical problems can be postponed for a suitable time.	**Communicate with remote support.** With data connection available, Rocla experts will see the same information as you and can help with the diagnostics and problem-solving.
Drill into transport and fleet operational history. With logged data, you can recognize deviations from planned routes and operations.	**Understand bottlenecks.** Use dashboard information to pinpoint incidents and environmental factors slowing transports.	**Increase operator capabilities.** Make data-driven decisions about operations, problem-solving, and maintenance. Promptly remove environmental causes, such as misplaced objects or loose packing materials.	**Make vehicle operational history available for maintenance.** The data-based prediction will help identify targets for preventive maintenance. A missing spare part or an unexpected failure will be a problem less often.
Maintain performance targets. Measure and meet your availability and efficiency goals.	**Monitor vehicle operating hour count since last maintenance.** Optimize fleet availability and plan maintenance with minimum effect on production. The maintenance breaks are easy to coordinate, and many vehicles can be serviced at once.	**Recognize process deviations.** Inspect incidents before valuable transport capacity is lost.	**Develop operations and find problem root-causes** with data-driven analysis. Reduce risk with cloud-based back-ups of your data.

What's included?

	Dashboard		FleetController + Dashboard	
	Perpetual License	*With Maintenance Agreement*	*Perpetual License*	*With Maintenance Agreement*
Condition and fleet operations monitoring	✓	✓	✓	✓
Connectivity with cloud and support	✓	✓	✓	✓
Route optimizer			✓	✓
Order optimizer			✓	✓
Warehouse Management System integration			✓	✓
History timeline		✓		✓
All software updates		✓		✓
Availability as an upgrade to existing AGV systems Contact Rocla sales for an upgrade assessment	✓	✓	✓	✓

Do you want to know more?

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