



Healthcare

Automated
Guided Vehicles
for Hospitals



The Home of Intelligent Automation

Automated Delivery Vehicles

The Royal Adelaide Hospital's AGVs (Automated Guided Vehicles) transport food, linen, medical waste, general waste, pharmaceuticals, stores, beverages, dialysis, CSSD etc. 24/7, 365 days.

AGVs offer many benefits, such as lower operating costs, reduced transport damage and consistent mission delivery times.

This 25 strong fleet of AGVs feature an in-built trolley lifting system that can deliver a payload up to 500 kg. The AGVs are finished in a high-grade stainless steel for hygiene and strength.

The system is controlled by the intelligent Windows based Max Control System. The AGVs distribute various payloads using dedicated lifts over 9 floors of the hospital.

The hospital aisles are shared with staff and other traffic therefore the on-board safety sensors allow the vehicles to stop when obstacles are detected – avoiding personal injury and damage to the payload, surrounding items and infrastructure.

The flexible system can be easily adjusted, routes moved, and traffic optimised by the RA Health team with technicians available Australia wide.

AGVs are able to work 24 hours a day, 7 days a week (less charging time), replacing multiple shifts at once.



Fully Automated delivery for Hospitals / Clinics / Labs / Libraries etc.

Typical hospital functions include:

- Food
- Linen
- Medical Waste
- General Waste
- Pharmaceuticals
- Stores, etc.



On-board RFID readers simplify and reduce the infrastructure required.



Automatic charge stations with minimal infrastructure intrusion.



Hundreds of tonnes of materials delivered every day.

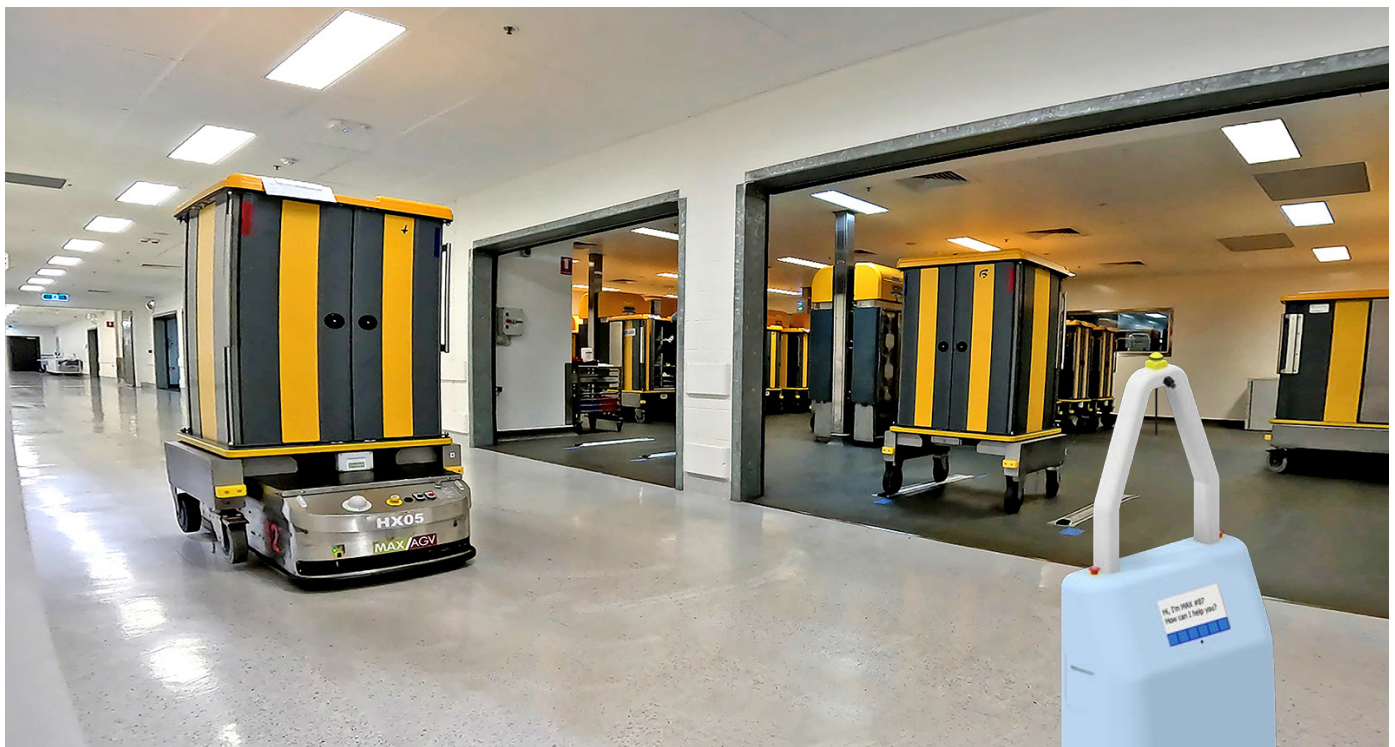
Advanced AGV Station Design

The RA Health AGV System provides greater spatial efficiency along with reduced, maintenance and ongoing costs. The system also allows for greater flexibility for future changes and growth.



500 km (equal to 750,000 steps) of material movement per day using 14 dedicated lifts controlled by the MAXAGV Control System.

Simple touch-screen tablets make scheduled deliveries easy.



Over 300 pick-up and delivery locations serving 31 lobbies over 9 floors.

L-Type laser guided AGVs also available.



Safety

Automated Guided Vehicles share the hospital aisles with staff and other traffic, so built-in safety systems must be up to the task.

Naturally, our AGV systems meet and exceed the demands of the applicable safety standards - and because we only supply open systems with the most modern and standard components, additional safety features can be easily integrated to meet customer-specific needs.

Navigation

RA offers a full range of AGV guidance and navigation systems, so we always have the right solution for your task and your environment.

For hospital applications, contour navigation is generally employed as it is the most suitable for this environment.

Our systems are very flexible and scalable, making them easy to extend and modify as your business grows, ensuring a long-term and secure investment in the latest, proven technology.

Core Competencies

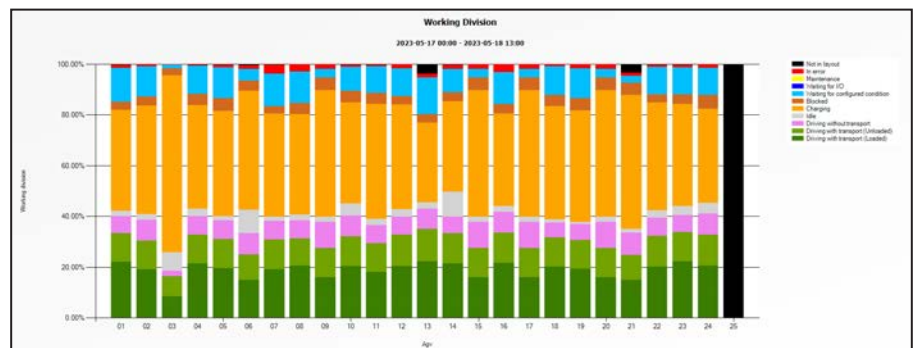
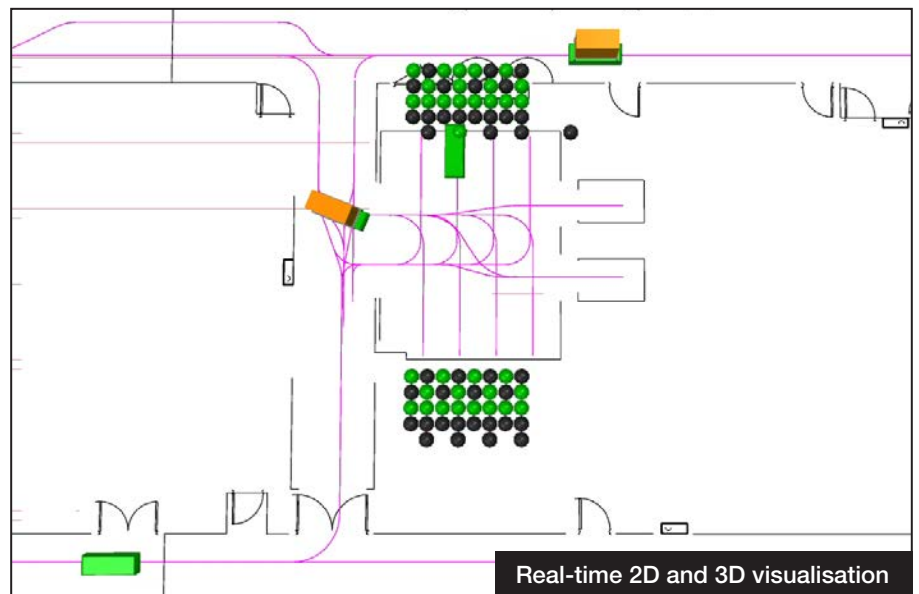
- Safety
- System flexibility & scalability
- Local tech support including path creation and editing
- Modern navigation systems
- Organized repetitive delivery process
- Prevent in-transit damage
- Reduction of logistics costs
- Quick Return on Investment
- More hygienic

MAX Control

MAX WMS is a state-of-the-art, dependable AGV Control System that runs on a modern client server Windows environment.

Max Control System handles everything from transport and WMS warehousing, load tracking, buffering and order swapping to optimal dynamic route selection, location selection, charge control, priorities and dead lock prevention – all shown in real time 2D & 3D visualisation.

Max controls the AGV routing making split second decisions along the AGV's guidance path in order to select optimum routes to a specific destination.



Watch the system in action.



From concept to complete turn-key delivery, and on-going tech support.

Service Capabilities

The brand exclusivity of MAXAGV and Yaskawa Motoman gives our clients immediate access to the superior tech support, spare parts and experienced technicians that others cannot.

Operating in Australia and New Zealand since 1988 RA have installed and continue to support over 3,600 installations across manufacturing, warehousing, welding, hospitals, testing laboratories and even banking processes.

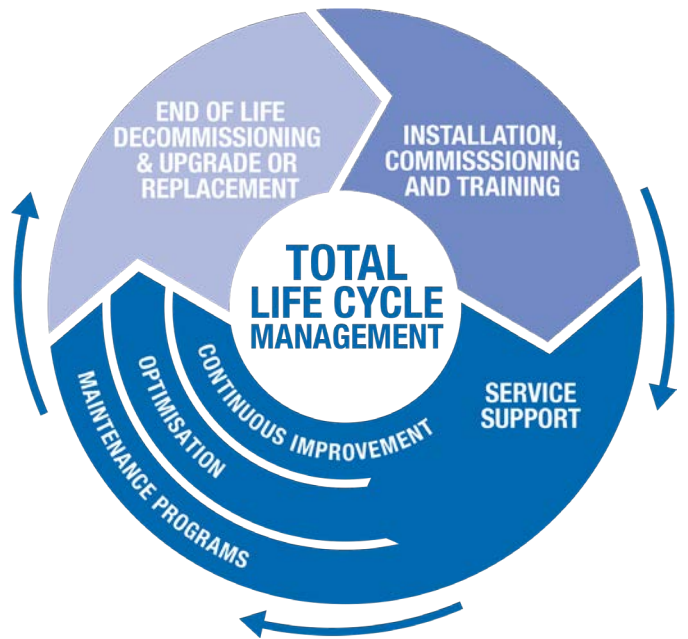
Being an exclusive supplier of leading brands gives us the confidence to offer customised warranty packages and deliver fast and reliable service and support. RA Service has a local store of spare parts, plus a nationwide team of factory-trained service technicians.

We believe in offering total life cycle management to all commissioned systems to achieve the best optimisation and return on investment.



Proven reliability

Example: Our recent upgrade of the AGV Control System has been done after the fleet has already traveled over one million kilometers.



Multi-Award-Winning Design, Build, Test, Installation, Commissioning and Support Services.





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Thousands of businesses continue to use RA Group for our valuable industry experience.



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