

Automated Guided Vehicles for Hospitals



Turn-key solutions for all industries

Service Capabilities

Unrivalled experience in projects as unique or as large or small as our clients are.

Operating in Australia and New Zealand since 1988 RA have installed and continue to support over 3,500 installations across manufacturing, warehousing, hospitals, testing laboratories and even banking processes.

As the direct representative of leading system brands, RA has all the pieces to your automation solution. We'll also put them together and solve it for you! Our expert team of trusted consultants, engineers and project managers put together all the pieces to build turn-key solutions, tailored to your needs.

System Resources - World's Best

Technical Support: RA Service has a local store of spare parts, plus a nationwide team of factory-trained service technicians, that you only get with a company that's internationally appointed to exclusively represent leading global manufacturers in Australia & New Zealand.

RA can help you manage the equipment life-cycle, ensure your production and maintain the value of your investment. We'll tailor a package to meet your needs.



We look forward to hearing from you to see how we can help.

Thousands of businesses use RA..

Our valued customers may be small, first-time automation users, Original Equipment Manufacturers (OEM's), system integrators or large multi-national consumer brands with their own in-house project engineering teams.

You may need a little guidance on an individual system or you may need complete, turn-key delivery of a full packaging or processing line: All are important to RA.

After install, RA supports with warranty, maintenance, spares and training options - enabling customers with the in-house skills to create and modify their own robot programming to meet the ever-changing demands of modern production lines.

RA have been the exclusive partner for Motoman Robotics for 33 years in the Australasia region.

MOTOMAN
YASKAWA



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Automated Delivery Vehicles

Robotic Automation delivers Automated Guided Vehicles Systems for the transport of food, linen, medical waste, general waste, pharmaceuticals, stores, beverages, etc.

Automated guided vehicles offer many benefits, such as lower operating costs, reduced transport damage and improvement on delivery times.

European-made, predominantly from high-grade stainless steel for hygiene and strength, the AGVs have a Super-flat profile to achieve a very low, sleek vehicle that's ideally suited to many hospital duties. With its integrated lifting gear, the vehicles can deliver hospital trolleys, beds, containers and the like – up to 500 kg. The tried & tested design of the AGV is easy to maintain and delivers riskfree automated transport and handling in hospitals, laboratories etc.

The AGVs drive automatically in and out of service elevators and generally use separate service aisles to bridge various floors. If needed, they can use passenger lifts as well using a reservation mechanism. On-board safety sensors allow the vehicles to stop when people or obstacles on the path are detected – avoiding personal injury and damage to payload, surrounding items or infrastructure.

Automatic guided vehicles are able to work 24 hours a day, 7 days a week, replacing multiple shifts at once.



Fully Automated delivery for Hospitals / Clinics / Labs:

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



Advances in hospital AGV station design...



- GREATER SPATIAL EFFICIENCY!
- REDUCED CAPITAL COSTS!
- REDUCED REPAIR AND MAINTENANCE COSTS!
- FUTURE-PROOFING!

The Old



...Excessive fixtures to install & maintain

Older designs may require...

External RFID Readers:

- Mounted on a metal pole at every trolley position.
- Metal pole fixed to ceiling and floor.
- Separate power & data cabling required (through pole) to panel.
- Readers exposed to damage from manual trolley positioning (see inset - panel scratched, cover broken away).

External Ceiling Sensor:

- Separate power / data cabling required (again).

At AGV charging positions :

- Cutting tracks in the floor for charging cables.



Consider the expense of installing and maintaining hundreds of these trolley positions throughout a hospital.



DAMAGED RFID READER

The New



Minimal fixtures, minimal infrastructure intrusion...

RA Health supplies our hospital AGVs with...

On-board RFID Readers & Sensors:

- NO panels or poles required at trolley positions.
- NO separate power & data cabling.
- NO exposure to damage from manual trolley positioning.

At Ceilings:

- NO ceiling installations necessary.

At charging positions:

- NO cutting tracks in the concrete floor for charging cables.



Safety

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

Naturally, our AGV systems meet and exceed the demands of the applicable European safety standards.

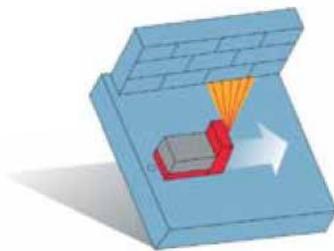
And because we only supply open systems with the most modern and standard components, additional safety features can easily be integrated to meet customer-specific needs. Safety first – guaranteed.



Navigation

RAGV can offer a full range of AGV guidance and navigation systems, so we always have the right solution for your task and your environment. Our control systems are multi-sensor enabled, so we can deliver hybrid navigation vehicles that perform more accurately in multiple environments.

The optimum solution is guaranteed. 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.



Contour Range guidance or laser

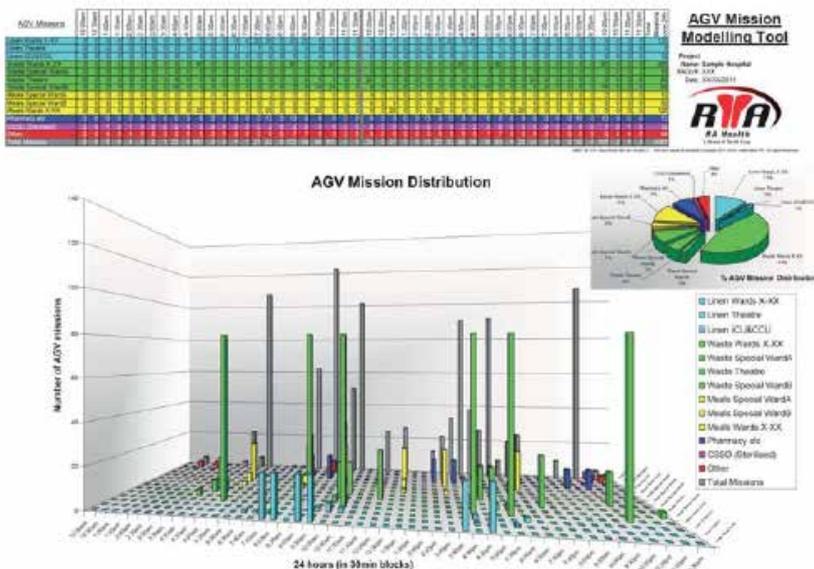
Power Systems

A key part of any AGV installation is its power supply system. Based on the application and the environment, we can optimise the power system to best-fit any installation.

With almost 30 years experience in Automated Guided Vehicle Systems. The right power solution is a very important element in the success of a system, (an example could be a lithium battery swap out package for longer run time resulting in the need for less AGV units).

Robotic Automation Modelling Your Needs

Use our tools to model and assess your site's AGV potential.



The Core Competencies of our Healthcare line

- Safety
- System flexibility & scalability
- Modern navigation systems
- Organized repetitive delivery process
- Prevent in-transit damage
- Reduction of logistics costs
- Quick Return on Investment
- More hygienic



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

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Quote: “ ...Demonstrating with his business that Australians can do anything, Colin has created a system, and he does this across many industries and businesses, we are just looking at one here as an example, which will mean an Australian manufacturer of pharmaceuticals will be able to continue doing so in Australia.” - **Malcolm Turnbull, Prime Minister, July 2016 visit to RA Sydney’s facility.**