



Connecting islands of automation.
Connecting robots with people.



- Automated transport between random production cells.
- Just-in-time delivery for true lean work practice.
- Seamlessly adapt to layout and facility changes.
- Focus labor on value added tasks.
- Designed for intelligent human interaction.
- Cooperative, compliant, connected.



635 South Service Road,
Grimsby, Ontario L3M 4E8
CANADA

T: +1 905.643.9700
F: +1 905.643.9666

E: adam@ADAMrobot.com

www.ADAMrobot.com

ADAM™
Autonomous
Delivery
And
Manipulation

Lean
manufacturing
through mobile
robotics



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Introducing a category-defining, Intelligent Automatic Guided Vehicle (i-AGV) that provides fully autonomous robotic transport of goods in manufacturing applications, even in the most dynamic environments.

INDUSTRY APPLICATIONS

- AUTOMOTIVE (OEM, Tier 1 & 2)
- ELECTRONICS (Component and Assembly)
- SOLAR
- PLASTICS (Caps/Closures, Bio-medical)
- AEROSPACE (Manufacturing and Maintenance)
- INSTITUTIONAL



An ADAM fleet will safely maneuver product where you want it, when you need it.

State of the Art Navigation Technology: ADAM does not follow pre-programmed pathways. There are no external guide-path networks or navigational markers. ADAM safely navigates independently, based on the most efficient path to the destination of the payload, navigating around obstacles as they are encountered.

A Virtual Conveyor System: Imagine a conveyor that serves every location in the facility. Now you can deliver goods to any destination at the click of a mouse. Onboard sensing systems and advanced control algorithms allow self-navigation through dynamic industrial environments.

Co-ordinated Fleet Operation: ADAM can operate as a single vehicle or in a fleet of up to 100. Vehicle to vehicle communication ensures efficient traffic management and coordination.

Smart Battery Technology: Using the latest in battery technology, combined with in-process opportunity charging, ADAM is always available to respond to mission requests with no productive time lost to battery changes or extended deep charge cycles.



As a single unit or as a fleet, ADAM is controlled through the ADAM COMMANDER, a user-friendly PC based interface. The convenient touch-screen monitor is used for system planning, vehicle dispatch, communication and battery management. Achieve maximum flexibility and performance within this highly configurable platform.

Integrate ADAM with production machinery to fully automate manufacturing processes or complicated transport tasks.

A Look Inside: Specifications And Features



ADAM's VITALS

MECHANICAL

- Heavy duty design for the rigours of industrial applications
- 150 kg payload capacity · Height 510 mm · Diameter 1020 mm
- Two independent servo-motors (each with integrated gear reducers) for vehicle drive

ELECTRICAL

- 24 VDC - Smart Battery Technology
- Opportunity Charging

PERFORMANCE

- 1.5 m/s maximum speed
- Zero turning radius
- +/- 15 mm positioning accuracy (with target)

CONTROLS

- Onboard PC for autonomous navigation and drive control
- Laser range finding system for vehicle location and obstacle avoidance
- Communication via wireless LAN (IEEE 802.11 a, b/g)
- Real time monitoring of all onboard systems including battery management, vehicle location and task assignment
- Interface for communication with factory systems

