

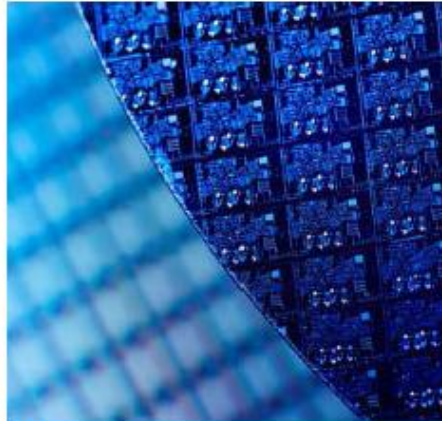
MADE FOR INDUSTRY

With the largest install base in the world, OMRON mobile robots are deployed in thousands of applications across multiple industries.



Automotive

- Tire Assembly
- Automotive Electronics
- Automotive Accessories
- Assembly and Inspection



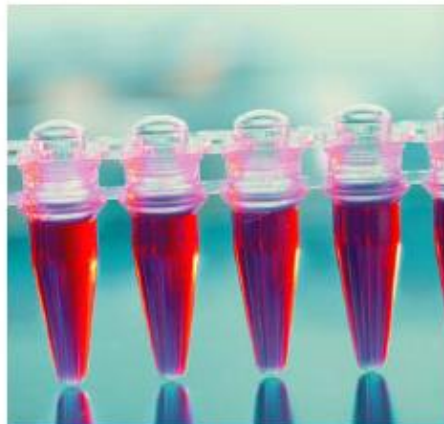
Digital

- Semiconductor Wafer Fabrication
- Semiconductor Packaging and Test
- Mobile Device Manufacturing
- Data Center Environmental Surveillance



Food and Consumer Products

- Stockroom Transport
- Transport Goods to Assembly and Sorting Stations



Medical

- Sterilization Room Transport
- Laboratory Sample Transport

FLEXIBLE FUNCTIONALITY

OMRON's mobile solutions are extremely versatile and can be adapted to perform a wide variety of tasks and applications. We're also scalable, so we can grow with your business.

Grow Your Business

- Modify layouts to optimize production

Adapt to Changing Environments

- Assembly stations
- Clean rooms
- Order fulfillment
- Loading docks
- Stock rooms

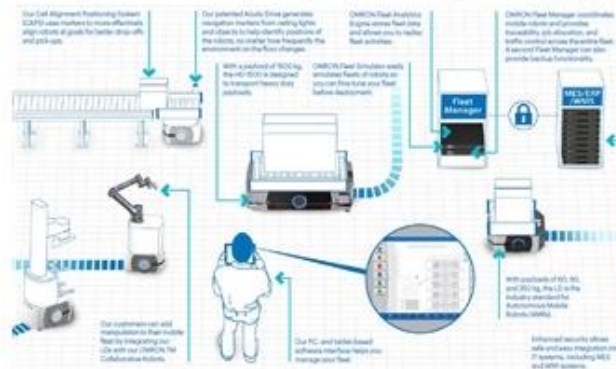


OMRON MOBILE SOLUTION

Robots are built for performance. OMRON's mobile robots handle the performance of simple transport, delivery, and routing chores so your employees can perform higher-value jobs.

OMRON supplies more than robots. We deliver a full ecosystem of automation technology to provide the best solution from one source. Welcome to Fleet Operations Workspace (FLOW).

Fleet Operations Workspace puts you in complete control, improving productivity, throughput, and traceability.

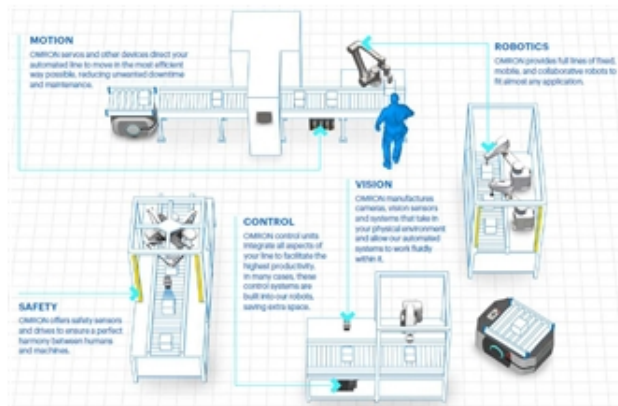


OMRON INDUSTRIAL AUTOMATION SOLUTION

You need more than a piece of advanced hardware equipment; you need an autonomous material transport system flexible enough to evolve with changing needs. The OMRON full family of automation technology fills in your entire production line.

As the leader in industrial automation, OMRON offers products that help manufacturers fulfill the needs of mass customization, and address issues related to rising labor costs and labor shortages.

Along with mobile robots, OMRON provides a variety of automation equipment and devices that range from control components and vision sensors to controllers and servomotors, as well as an array of safety devices and fixed robots.



POWERFUL FLEET MANAGEMENT

OMRON Fleet Operations Workspace (FLOW) Core

The OMRON Fleet Operations Workspace (FLOW) solution provides an intelligent fleet management system that monitors mobile robot locations, traffic flow, and job requests, ensuring your factory operates at peak efficiency.

By automating robot tasks, our FLOW Core solution also reduces programming in your manufacturing execution system (MES) or enterprise resource planning (ERP) system.

- Displays robot location and status
- Displays job queue
- Prioritizes important jobs
- Selects fastest routes based on human and robot traffic
- Identifies blocked paths and creates alternative routes
- Optimizes job assignments
- Optimizes battery charging

■ The OMRON Fleet Manager, running with FLOW Core software, can manage fleets of up to 100 robots in any configuration.



Optimize Efficiency

1. Intelligent Job Assignment

Reduces wasted time and movement by continuously looking ahead to anticipate which robots will be best positioned for upcoming tasks.



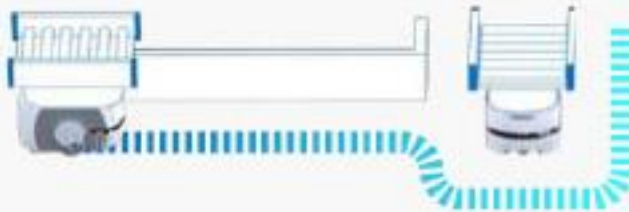
2. Managed Motion

Ensures smooth operations in busy environments by coordinating traffic flows and efficiently sequencing pick-up and drop-off at target locations.



3. Traffic Control

Notifies converging robots of their predicted paths, allowing them to re-calculate and avoid collision in the most efficient way.



Maximize Uptime

4. Automatic Updates

Performs updates automatically across the entire fleet.



5. Charge Management

Tracks battery power of the entire fleet, directing robots to their nearest available, or preferred, docking station on a schedule that ensures continuous fleet operation.



Increase Flexibility

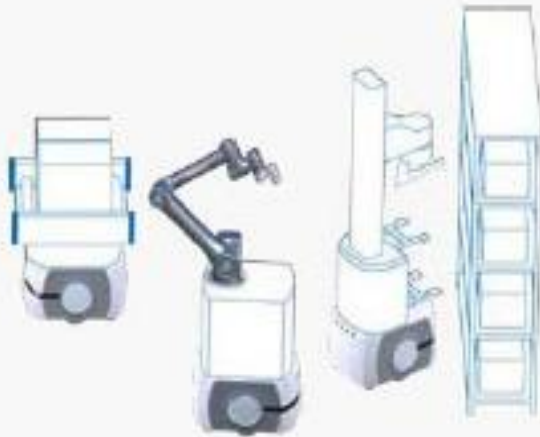
6. Easy Integration with IT Systems

Fleet Manager can connect to your MES, ERP and WMS so that jobs can be propagated automatically to the fleet in real time.



7. Skill Administration

Understands the capabilities of each vehicle in the fleet, and always makes sure that the right job is assigned to the right robot.



PRECISE PERFORMANCE

Our safe and intelligent navigation leads the industry in speed and accuracy. Using multiple systems, our robots learn to become even more efficient after they're installed. Every robot in our fleet acts as a sensor to map out the most challenging environments and optimize its performance, from navigating tight aisles to planning the most efficient routes.

- Dynamic obstacle avoidance
- Faster navigation times
- Smoother driving
- Fast goal approach speeds
- Superior alignment at goals



Cell Alignment Positioning System (CAPS)

CAPS evaluates real-world features to effectively align robots for high accuracy drop-offs and pick-ups.



High Accuracy Positioning System (HAPS)

HAPS allows our mobile robots to move along fixed paths in applications that require tight tolerances.



Acuity

OMRON's patented Acuity generates navigation markers from ceiling lights and displays, which allows our mobile robot to remain fixed. Using these ceiling features, it generates an additional map to identify the floor's position, no matter how frequently the environment or the floor changes.

EASY INSTALL

OMRON mobile robots are easy to get up and running, requiring no construction such as the installation of magnets, and minimal programming. In addition, our software integrates with your other systems so you can get the solution up and running in minimal time.

- No construction required
- Easy integration with MES, ERP, and WMS
- Enhanced security to comply with IT systems
- Autonomous navigation doesn't require preset routes, magnets, or beacons
- Automatic software updates across fleet while maintaining continuous work flow



Safety Features

- Avoids static and moving obstacles
- Additional E-stops easily added
- Complies with ISO EN1525, JIS D6802 and ANSI B56.5 safety standards



HEAVY DUTY TRANSPORT

Meet the strongest member of OMRON's family of mobile robots

OMRON is proud to announce the release of the HD-1500, our latest automated mobile robot with a heavy duty payload capacity of 1500kg.

The higher payload capacity allows customers to automate new tasks that were not previously possible, such as the transport of pallet-size loads, engine blocks, and other heavy goods and equipment. The HD-1500 can also automate tasks that are traditionally completed with forklifts, reducing the risk of injury.

Working seamlessly into an integrated OMRON mobile fleet, the HD-1500 allows customers more options in terms of developing the most customizable mobile solution for your factory.

Key Features

- 1,500 kg payload capacity.
- Based on the same proven technology used in our LD series.
- 360° safety coverage with LiDAR technology
- 35 minutes for full battery charge
- Sturdier metal skins withstand heavier impacts and more demanding tasks.

