



Meet the  
**OL Series**  
Autonomous  
Mobile Robot  
*OL-450S2 | OL-450S3*

OMRON's innovative omni-directional OL-450S is a complete AMR solution - no toppers or customization required. Its low-profile design, impressive lifting capacity, and advanced safety features make the OL-450S a versatile solution for a wide range of applications.



Payload  
450 kg



Lifting Plate  
108 mm - 308 mm



Speed  
1.2 m/s



Safety Coverage  
360°

## Customer-Centric Solution

*Addresses Key Material-Handling Pain Points*

- Existing Manual Carts
- Multiple Automation Vendors
- Customized Solutions
- Design Constraints
- Specialized Environments
- Integration Challenges

## What Makes OL-450S the Superior Solution for these Challenges?

- **Compatible with Custom and Standard Load Carriers:** Whether you use standard or custom load carriers, the OL-450S seamlessly fits into your existing workflow, ensuring flexibility and adaptability.
- **Seamless Integration with Existing Mobile Robot Infrastructure:** The OL-450S easily integrates with your current systems, minimizing setup time and maximizing efficiency.
- **Centralized Management:** All features and capabilities can be managed through OMRON's FLOW Core software, providing centralized control and monitoring.
- **Lifting Plate Height of 108mm - 308mm:** Featuring a low-profile 108mm height for easy placement under low load carriers, and can lift to 308mm for greater flexibility and reach.
- **Wireless Charging:** Standard with the OL-450S, wireless charging enables flexible deployment, simplified management, and uninterrupted workflow. Wireless charging is ideal for specialized environments where physical connections increase the risk of sparking and particle generation.

## Experience the Benefits of OL-450S

### Reduced Downtime



Experience continuous operations with a 7-hour runtime and 40-minute rapid recharge. The robot's autonomous charging feature ensures seamless, uninterrupted performance.

### Application Versatility



Compatible with both custom and standard load carriers, the OL-450S efficiently services multiple production lines with a single robot - improving overall productivity.

### Increased Throughput



Increases throughput and reduces cycle times by efficiently managing multiple tasks and production lines, ensuring faster and more consistent output.

### Faster Task Completion



The OL-450S speeds up task completion by automating repetitive processes, optimizing workflow, and enhancing coordination, reducing manual effort and minimizing delays.

### Increased Safety



Improves workplace safety with its dynamic intelligent safety system. The OL-450S meets or exceeds the requirements of ISO 3691-4\*.

### Repeatability + Consistency



Ensures reliable and uniform operational performance, minimizing errors, reducing downtime, and enhancing overall productivity.

*\*Except Clause 4.12*



**Interested in learning more about the OL-450S?**



**SCAN HERE to see the OL-450S in action**

# OMRON

Cat. No. M116-E-01 0325 (0325)

4225 Hacienda Drive Pleasanton, CA 94588

robotics.omron.com

(925) 245 - 3400