

OMRON

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

Note: Do not use this document to operate the Unit.

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Cat. No. M116-E-01 0426 (0426)