# Omron Lynx Handler-Semi



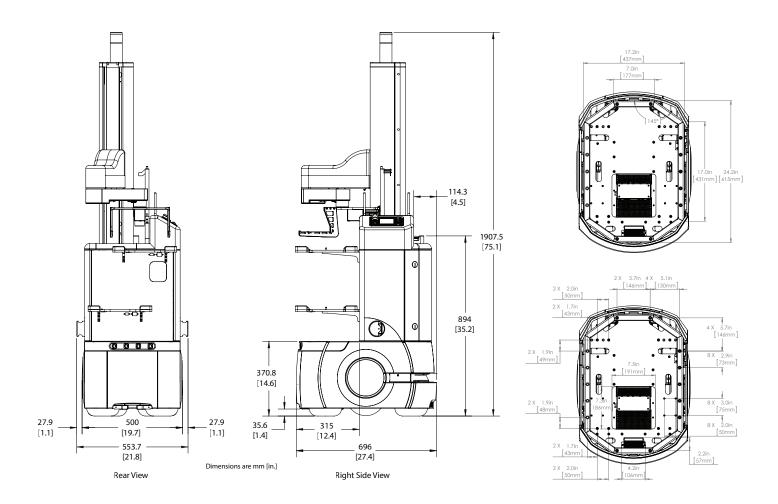| Specifications | |
|---|---|
| Weight | 110 kg (243 lbs) |
| Payload | |
|    Level Surface | 2x5 kg (2x11 lbs) |
| Power | |
|    Battery | 22-29 VDC LiFePO$_4$ |
|    Capacity | 60 Ah |
|    Run Time | 8 hours (continuous) |
|    Recharge Time | 3.5 hours (5:1 ratio) |
|    Battery Life | 7 years |
| | 16 hr/day , 5 days/wk |
|    Charging Station | Automatic (optional) |
| Mobility Overview | |
|    Maximum Speed | 1000 mm/sec |
|    Tire Composition | Non-Marking Rubber |
|    Suspension | Passive |
|    Steering | Differential |
|    Turning Radius | 0 |
|    Swing Radius | 343 mm (13.5 in) |
|    Traversable Gap | 15 mm (0.6 in) |
|    Traversable Sill | 15 mm (0.6 in) |
| CE, SEMI, VDI, ANSI B56.5 | |
| Payload | |
|    2 SMIF Pods for the automated exchange of 150 or 200 mm wafers | |
|    +/- 1 mm pod placement accuracy | |
|    Load port compatible: SEMI E15 | |

The Omron Adept Lynx™ Semi Handler combines a Lynx autonomous indoor vehicle (AIV) with a collaborative 4-axis robot to produce a highly versatile mobile robot designed to pick, place and move semiconductor waferpods throughout a wafer fab. It is designed to exchange wafer pods from a variety of processing equipment, stockers and storage (WIP) racks, and operates collaboratively within a fleet of Lynx vehicles.

The on-board intelligence of the vehicle eliminates the need for additional infrastructure such as tracks, reflectors or magnets.  It moves nimbly within narrow aisles and operates safely alongside people.  The Lynx Semi Handler improves production yield by eliminating human-generated dust particles and by following instructions from the fab production software system, ensuring no errors in the physical handling of or the identification of wafer pods.

# OMRON ADEPT LYNX HANDLER-SEMI

## Dimensions: Omron Adept Lynx Handler-Semi (mm)



Rear View

Dimensions are mm [in.]

Right Side View

---

### The Omron Adept Lynx Handler-semi system includes the following:

- Omron Adept Lynx™ mobile platform
- Graphical user interface
- 22-29 VDC battery pack
- Covers are removable without tools for maintenance
- User interface wheel indicating vehicle intent and status
- Programmable voice and audio prompts
- Queue management software

### Options and Peripherals:

- Class100 Cleanroom
- MobilePlanner™ and MobileEyes ™ software package
- Enterprise Manager Lite
- Call buttons
- Door interface

---

### Downloads:

Download CAD files for the Omron Adept Lynx Handler-Semi robot from
http://www.omron247.com

**OMRON | adept**

Omron Adept Technologies, Inc.

Tel: 925-245-3400    Email:  info@adept.com

omron247.com