OMRON

Autonomous Mobile Robots
LD-150 & LD-300

Self-navigating mobile robots that transport payloads up to 300 kg

- Natural feature navigation:
  Automatically plans efficient routes and prevents collisions
- Fleet management:
  Operates in coordination with a fleet of up to 100 AMRs
- Easy deployment:
  Installs quickly, without facility modifications
- Wireless charging:
  Fast, contactless power transfer enables opportunity charging and increased uptime.



Ordering Information

Model	Payload Capacity	Footprint	Ordering Code
LD-150	150 kg	700 x 500 mm	37690-10000
LD-300	300 kg	800 x 580 mm	37790-10000

Note: All AMRs in a fleet must have the same version of the FLOW Core software installed. Other considerations must be made when adding AMRs to a fleet. Contact your local OMRON representative for more information.
Note: The battery for the AMR must be ordered separately (64090-330). Before ordering lithium-ion batteries, please verify local shipping regulations to ensure compliance with applicable laws and restrictions.

Items Included with the AMR

Item	Description
Labels	Lifting, warning, and product labels
Printed Documentation	Printed documents and guides for safety and unpacking the AMR

Accessories and Optional Items

Item	Details	Ordering Code
Pendant	Handheld, external input device for manually driving an AMR, typically used for map creation.	64090-901
Stationary Electronics and Stationary Coil	Power supply box for charging the AMR battery. Includes the external charging coil for wireless charging, cables and covers. Power cable and mounting hardware are user supplied.	28110-101
Battery*1	Rechargeable power source for the AMR.	64090-330
Charging Ramp	Floor mounted elevated surface for proper charging coil alignment and spacing to initiate wireless charging.	64090-902
High Accuracy Positioning System (HAPS)	AMR Alignment using magnetic floor tape. Incompatible with front low laser. Includes HAPS sensor kit, cabling, hardware, and magnetic tape (25 mm wide, 49 m long)	LD-150: 64090-903 LD-300: 64090-904
HAPS Magnetic Tape	25 mm wide magnetic tape (south top side, 49 m roll)	14925-000
Supplementary Laser Kit	Includes two peripheral lasers, two mounting kits, two metal covers, and two cables for use as supplementary lasers on AMR.	64090-905
Wireless Antenna Extension Kit	Accessory kit to relocate wireless antennas up to 1 m away.	64090-906

LD-150 & LD-300

Item	Details	Ordering Code
Front Low Laser Kit (LD-150)	Includes front-facing, non-safety-rated scanner, required cables, and mounting bracket for use as a low-mounted peripheral laser. Only compatible with LD-150.	64090-907
Front Low Laser Kit (LD-300)	Includes front-facing, non-safety-rated scanner, required cables, and mounting bracket for use as a low-mounted peripheral laser. Only compatible with LD-300.	64090-908
Rear Low Laser Kit (LD-300)	Includes rear-facing, non-safety-rated scanner, required cables, and mounting bracket for use as a low-mounted peripheral laser. Only compatible with LD-300.	64090-909
Dual Low Laser Kit (LD-300)	Includes two non-safety-rated scanners, required cables, and mounting brackets for use as low-mounted peripheral lasers. Only compatible with LD-300.	64090-910
Secondary Battery Kit	Kit to add a secondary battery to the AMR. Includes a standard AMR battery and connecting cable.	64090-331
Service Charger	Portable charger for use in an AMR power loss event. Includes cables for five different regions.	64090-301
24 VDC Regulator Kit	48 VDC to 24 VDC voltage regulator with cabling and connection items.	64090-302
User Power Connection Kit	Includes red Anderson SBO60 connector with pre-crimped 1 m long cables to connect to user power.	64090-303
Mounting Structure Adapter (LD-150)	Adapter plate that provides compatibility with LD-60/90/90x payload designs.	64090-911
Mounting Structure Adapter (LD-300)	Adapter plate that provides compatibility with LD-250 payload designs.	64090-912
Mobile I/O Box	Used with a Fleet Manager to summon an AMR to a goal or control connected devices with I/O	23419-802
Mobile I/O Box Power Supply	Recommended for purchase with the Mobile I/O Box	23419-812

*1: Before ordering lithium-ion batteries, please verify local shipping regulations to ensure compliance with applicable laws and restrictions.

Software Licenses

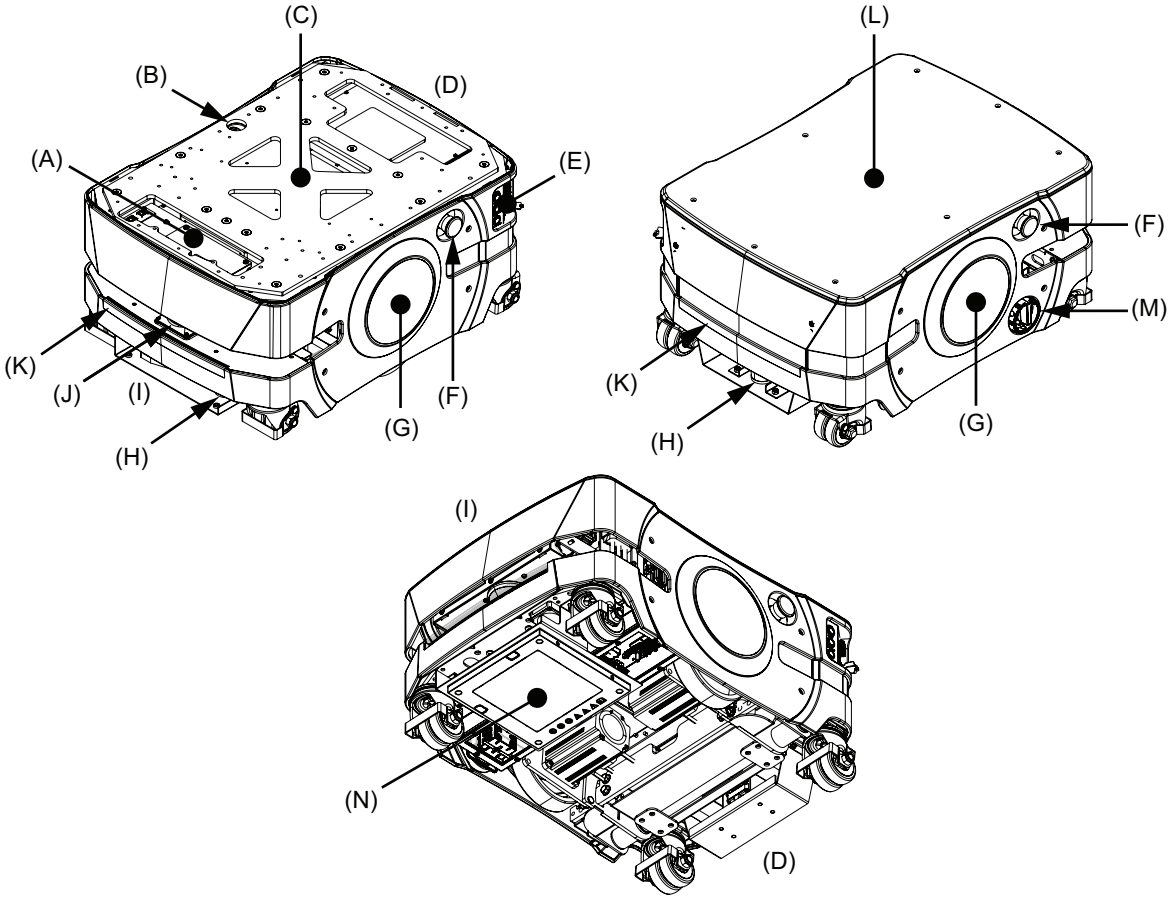
Product Name	Applicable For	Configuration	Ordering Code
Fleet Operations Workspace Core Fleet Manager License	Virtual Fleet Manager	Initial entitlement for a 3 year renewable FLOW Core license. Replace □□ with 01, 05, 10, 15, 20, 25, 30 to indicate the number of AMRs licensed to connect. Replace □□ with 50 for 31 or more AMRs.	30271-1□□*1
Fleet Operations Workspace Core Fleet Upgrade		Entitlement for a fleet connection limit increase by one additional AMR (used for existing installations).	30271-001
Fleet Operations Workspace Core Renewal		Entitlement for a 1 year renewal of the FLOW Core license. Replace □□ with 01, 05, 10, 15, 20, 25, 30 to indicate the number of AMRs licensed to connect. Replace □□ with 50 for 31 or more AMRs.	30271-2□□
Unified Fleet License		Provides access to the Unified Fleet Object feature for tracking the position of external moving equipment (such as carts, forklifts, and third party AGVs) and integrating them into OMRON Fleet Manager logic. Also provides access to advanced TrafficLight sector functions.	30271-601
Fleet Operations Workspace iQ (FLOW iQ) License		Entitlement for a 1 year renewable FLOW iQ license.	30271-701
		Entitlement for a 3 year renewable FLOW iQ license.	30271-703
Cell Alignment Positioning System (CAPS) License	AMR	AMR Alignment using software-defined target. Entitlement for a perpetual CAPS license.	20271-805
Cycle Time Optimization License		Enables reduced cycle times with fewer stops and path caching. Entitlement for a perpetual Cycle Time Optimization license.	20271-905

*1: After expiration of a FLOW Core Fleet Manager license, all Virtual Fleet Manager functionality will continue to operate without requiring subscription renewals. An active subscription is required for software upgrades and to access subsequent software releases, including bug fixes, feature upgrades, and performance improvements.

Note: To upgrade to the latest version of the FLOW Core software, contact your local OMRON representative. Please note that an active subscription is required for access to software upgrades.

Features and Components

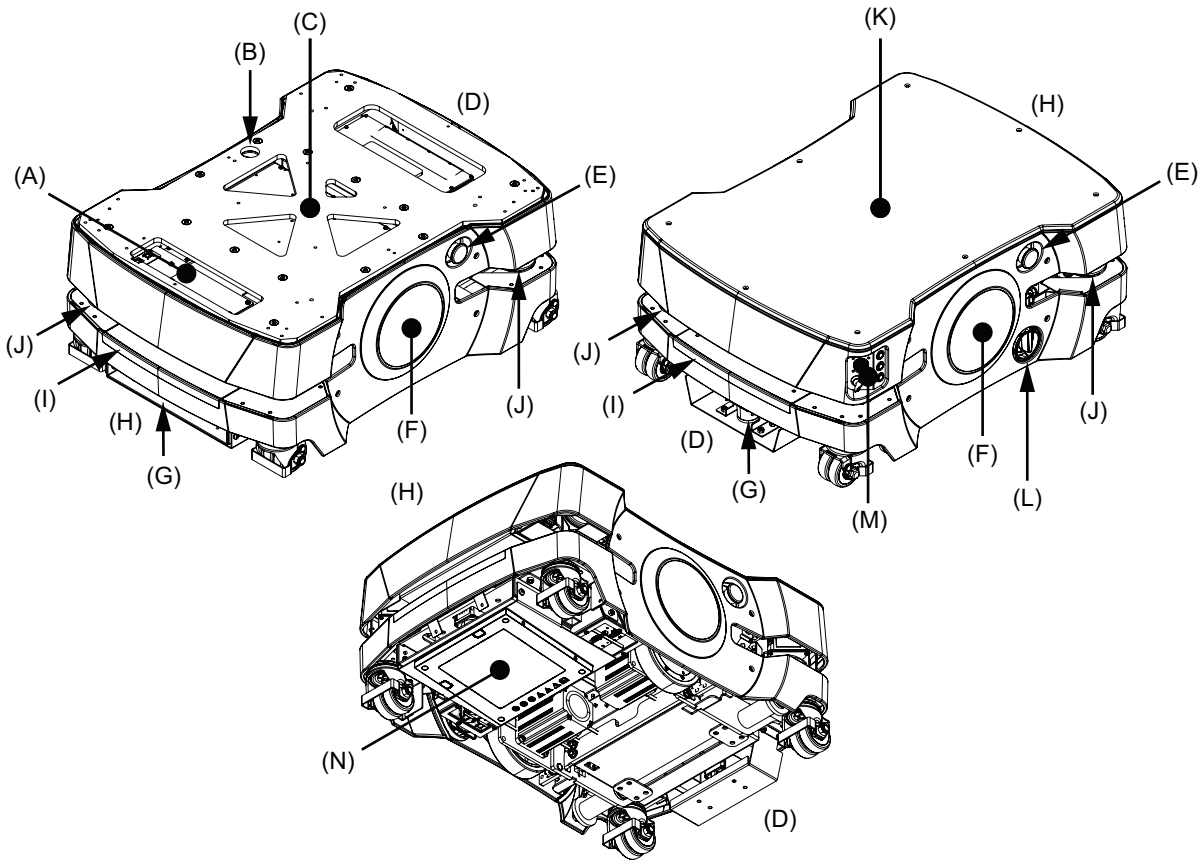
LD-150



Item	Description	Item	Description
A	User Connections Area	B	Pass-through Port
C	Payload Mounting Structure	D	Rear of AMR
E	Operator Panel	F	Emergency Stop
G	Light Disc	H	LiDAR Low Laser (Rear is standard, Front is optional)
I	Front of AMR	J	Safety Laser Scanner
K	Light Strip	L	Top Plate
M	Main Disconnect Switch	N	Mobile Charging Coil

Features and Components

LD-300



Item	Description	Item	Description
A	User Connections Area	B	Pass-through Port
C	Payload Mounting Structure	D	Rear of AMR
E	Emergency Stop	F	Light Disc
G	Low Laser (optional)	H	Front of AMR
I	Light Strip	J	Safety Laser Scanner
K	Top Plate	L	Main Disconnect Switch
M	Operator Panel	N	Mobile Charging Coil

Specifications

Item		Details	
		LD-150	LD-300
Maximum Payload Capacity		150 kg	300 kg
Weight (no battery or accessories)		91 kg	117 kg
Environment	Ambient Temperature	5 to 40°C	
	Storage Temperature	-25 to 60°C	
	Ambient Humidity	10% to 90% (non-condensing)	
	Operating Environment	Indoor usage only, no corrosive or explosive gas or liquid	
	Dust / Smoke	Accumulated dust smaller than 37 µm cannot exceed 10 ml / m^2 on the environment floor. Avoid operating in areas with smoke.	
	Altitude	2000 m above mean sea level maximum	
	Pollution Degree	2	
	Ingress Protection Class	IP22	
	Enclosure Rating	NEMA Type 2	
	Atmospheric	Non-hazardous environments (no explosive gas and oil mist).	
	Cleanroom Rating*1	ISO 5 / Class 100	
Floor Conditions	Floor Requirements	No water, oil, or dirt	
	Minimum Floor Flatness	FF25 (ASTM E1155)	
	Minimum Floor Levelness	FL15 (ASTM E1155)	
	Minimum Compressive Strength	3 MPa	
	Maximum Step Traversal*2	15 mm	10 mm
	Maximum Gap Traversal*3	15 mm / 30 mm	
	Maximum Slope	Max. 5° / 8.75% incline	
	Minimum Coefficient of Friction	Flat surfaces: 0.6; Inclined surfaces: 0.8	
	Maximum Resistivity	10^8 Ω	
Navigation	Routing	Autonomous routing by localizing with LiDAR-based Safety Scanner(s), based on environment mapping.	
	Environmental Map-Making Method	Scan by driving the AMR through the environment and uploading the scan data to the MobilePlanner.	
	Supplementary Laser Scanners	Optional, Supplementary Laser Scanners can be added for increased obstacle detection.	
Visual Indicators		Light discs are located on the sides of the AMR. Light strips are located on the front and back of the AMR. Additional indicators can be added.	
Mobility	Run Time*4	7.5 h (no payload); 7 h (full payload)	7.25 h (no payload); 6.5 h (full payload)
	Uptime Ratio (run time:charge time)*5	17:1	16:1
	Swing Radius	400 mm	464 mm
	Turn Radius	0 mm	
	Maximum Translational Speed (Forward)	2100 mm/s	
	Maximum Translational Speed (Reverse)	280 mm/s	2100 mm/s
	Maximum Translational Acceleration	1000 mm/s^2	
	Maximum Translational Deceleration	1300 mm/s^2	
	Centripetal acceleration limit	500 mm/s^2	
	Maximum Rotational Velocity*6	100 °/s	
	Maximum Rotational Acceleration	250 $°/s^2$	
	Maximum Rotational Deceleration	250 $°/s^2$	
	Maximum Moment of Inertia	17 $kg-m^2$	32.5 $kg-m^2$
	Stop Position Repeatability (Single AMR)*7	To a position: ±75 mm, ±2.25° To standard target: ±25 mm, ±2° With HAPS: ±4 mm, ±0.25° With CAPS: ±4 mm, ±0.5°	To a position: ±70 mm, ±2.5° To standard target: ±25 mm, ±2° With HAPS: ±4 mm, ±0.25° With CAPS: ±6.5 mm, ±0.5°
	Stop Position Repeatability (Fleet)*7	To a position: ±80 mm, ±2.5° To standard target: ±35 mm, ±2° With HAPS: ±10 mm, ±0.5° With CAPS: ±6.5 mm, ±0.5°	To a position: ±80 mm, ±2.5° To standard target: ±35 mm, ±2° With HAPS: ±10 mm, ±0.5° With CAPS: ±11 mm, ±0.5°
Drive Wheels	Materials	Non-marking polyurethane wheels with brushless DC motors	
Passive Casters	Materials	Non-marking polyurethane wheels	
Auxiliary Power	Unregulated	37 to 57 VDC (51.2 VDC nominal); 30 A fused	
	Regulated	Two outputs at 22.8 to 25.2 VDC (24 VDC nominal); 200 mA fused	

Item		Details	
		LD-150	LD-300
Standards	AMR	EN ISO 12100, EN ISO 13849-1, EN ISO 3691-4, ANSI/RIA 15.08-1, ANSI/CAN/UL 3100, EN IEC 60204-1 KS C 9610-6-2, KS C 9610-6-4, EN IEC 61326-1, EN IEC 61326-3-1, EN ISO 12895, ISO 14664-14	
	Battery	IEC 62619, UN 38.3, ANSI/CAN/UL/ULC 2271	
	Charging Station	UL1564, EN IEC 62311, EN IEC 60335-2-29, EN IEC 55011, EN IEC 61000-6-2, CAN/CSA-C22.2 NO. 107.2	
	Wireless Communication	IEEE 802.11 b/a/g/n/ac	
Certification Markings	AMR	KC, FCC	
	Battery	CE	
	Charging Station	CE, cMETus	
Signal Interfaces	Security	Encryption: CCMP (AES) Authentication: WPA2-PSK, PEAP-MSCHAPv2, EAP-TLS	
	RJ-45 Ports	1 for maintenance, 2 for connecting user-supplied devices	
	Digital I/O	16 inputs and 16 outputs configurable as PNP / sourcing or NPN / sinking.	
	Safety	Emergency stop and protective stop signals, alternate safety zone switching, and no-motion output.	
	Lights	Connects user-supplied visual signal devices	
	Buzzer	Connects user-supplied audible signal devices	
Safety Features	Safety Laser Scanner	One Safety Laser Scanner is included to provide a 240° detection area at the front of AMR. The scanning plane is positioned 175 mm above the floor. Laser is rated as Class 1/M, eye-safe, per IEC 60825-1 and 21 CFR 1040.10 and 1040.11.	Two Safety Laser Scanners are included to provide a 360° detection area. The scanning plane is positioned 175 mm above the floor. Lasers are rated as Class 1/M, eye-safe, per IEC 60825-1 and 21 CFR 1040.10 and 1040.11.
	Safety Laser Scanner Zone Sets	Safety-rated inputs toggle between the default detection zone set or a configurable zone set.	
	E-STOP Buttons	E-STOP buttons are located on the AMR sides. Additional E-STOP buttons can be added to the payload structure.	
	Audible Indicators	One speaker and one buzzer are included. Volume range 70 to 90 dB. Additional buzzers can be added.	
	Emergency Stop	Stops the AMR and requires intervention to resume operation.	
	Protective Stop	Stops the AMR temporarily and automatically resumes operation when safety conditions are met.	

*1: Cleanroom ratings are associated with the AMR and charging components when used together as a complete system.

*2: Traversing a 15 mm step must occur at speeds above 300 mm/s in the forward direction for LD-150. Traversing a 10 mm step must occur at speeds above 250 mm/s in the forward and reverse directions for LD-300. Frequent driving over steps will shorten the lifespan of the drivetrain components. Steps should have smooth, rounded profiles.

*3: 15 mm gaps may be traversed at any speed. Traversing a 30 mm gap must occur at speeds below 1500 mm/s for LD-150 and speeds below 500 mm/s for LD-300. Frequent driving over gaps will shorten the lifespan of the drivetrain components.

*4: Auxiliary power draw will impact these times.

*5: Uptime ratio while operating between 80% to 20% state of charge.

*6: The maximum rotational speed is reduced to 45 °/s when the AMR is traveling at speeds over 40 mm/s.

*7: Stop position repeatability values were obtained using default AMR parameters and a map created by the LD-150/300 AMR. Values represent three standard deviations from the mean.

Version Information

The details in this document apply to products operating with the following hardware and software versions.

- AMR Revision A
- FLOW Core Software Version 5.11
- Battery Revision A

MobilePlanner Software Requirements

MobilePlanner, PC	**Operating System**	Windows 10 (64-bit version), Windows 11
	CPU	1.5 GHz dual-core CPU recommended
	Main Memory	1.5 GB min. (4 GB min. recommended)
	Hard Disk	At least 200 MB of available space
	Video Memory	256 MB min.
	Display	XGA 1280 x 720, 16 million colors minimum
MobilePlanner, Tablet Edition	**Operating System**	Android® OS, Version 9 or newer, minimum 2 GB of RAM
		iOS®, Version 10 or newer
Supported Languages		English, German, Japanese, French, Italian, Korean, Spanish, Polish, Simplified Chinese and Traditional Chinese.

Virtual Fleet Manager Software Minimum Hardware Requirements

Fleet Size / AMR Count	Small ≤ 5	Medium ≤ 15	Large ≤ 30	X-Large > 30*1
Virtual CPU	2 Cores		4 Cores	
Clock Speed (per core)	2 GHz	4 GHz	3 GHz	4 GHz
Virtual RAM	8 GB	16 GB	24 GB	32 GB
Virtual Disk	512 GB			1 TB
FLOW Software Version	Minimum FLOW Core 5.0			

*1: Contact your local OMRON representative for fleets larger than 100.

Note: The PC/IPC/Server is supplied by the user.

Charging Station

Maximum Input Current	16 A
Input Voltage	200 to 240 VAC, 50 to 60 Hz, single phase
Output Voltage	15 VDC to 60 VDC (28 VDC nominal)
Power Consumption	3.3 kW
Maximum Output Current	60 A
Maximum Output Power	3 kW
Relative Humidity	0 to 95% non-condensing
Charging Method	Wireless (primary), Service Charger (secondary)
Ambient Operating Temperature	-10 to 40°C
Storage Temperature	-20 to 55°C
Ingress Protection	Stationary Electronics: IP20
	Stationary Coil: IP68
Altitude	2000 m maximum
Pollution Degree	1
Noise	55 dB(A)
Equipment Class	Class A
Weight	Stationary Electronics 5.9 kg Stationary Coil 2.8 kg

High Accuracy Positioning System

Environment		-40 to 85°C
Magnetic Tape	**Width**	25 mm
	Orientation	South up
Markers (Magnetic Tape)	**Width**	25 mm
	Length	250 mm min. for 500 mm/s drive speed
	Orientation	North up
	Separation from Tape	20 to 30 mm
Protective Covering Tape (recommended)		Mighty Line Safety Floor Tape, Solid (102 mm width)

Pendant

Ambient Operating Temperature	0 to 40°C
Storage Temperature	-20 to 65°C
Humidity	5% to 95%, non-condensing
Altitude	2000 m
Ingress Protection Class	IP30

Battery

Type	Lithium-Ion (LiFePO4)
Voltage	37 to 57 VDC (51.2 VDC nominal)
Capacity	21 Ah nominal
Energy	1074 Wh nominal
Recharge Time	18 minutes (from 20% to 80%)*1
Charge Cycles	Approximately 5000 cycles*2*3
Charging Method	Automatic or manual
Ambient Operating Temperature	5 to 40°C
Storage Temperature	-25 to 60°C
Humidity	10% to 90%, non-condensing
Altitude	4500 m, operating 15240 m, transporting
Ingress Protection Class	IP33
Weight	16.4 kg

*1: Charging time can vary based on battery cell temperature and state of charge.

*2: Approximately 80% of nominal battery capacity will be available after using the battery at 100% depth of discharge.

*3: Under manufacturer's test conditions of 25°C ±3°, 25% to 85% relative humidity, 40 A charge/discharge, 57 and 40 VDC charge/discharge, with 60 minutes of inactivity after charging/discharging. Actual cycles may vary according to the application.

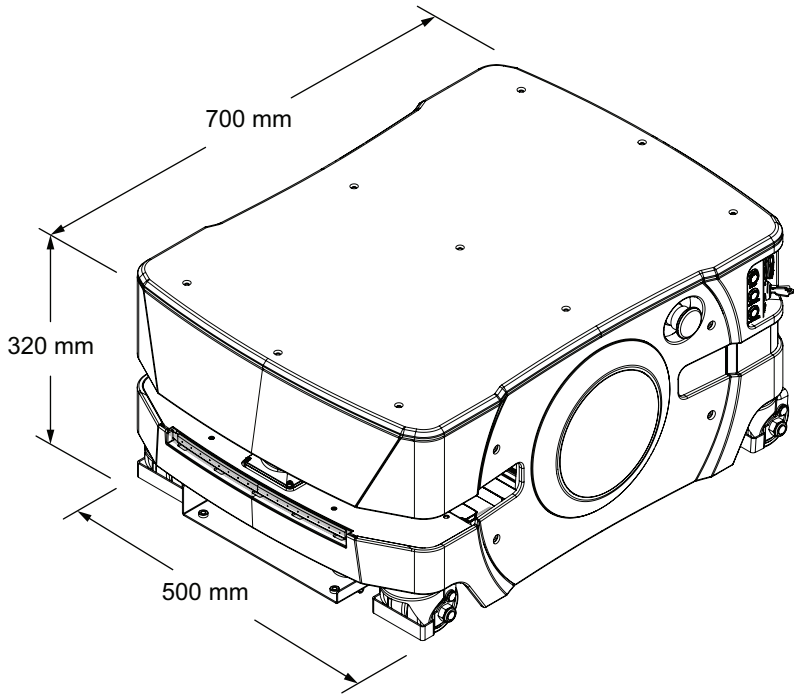
Service Charger

Input Voltage	100 to 240 VAC, 50 / 60 Hz
Input Current (max.)	7.5 A
Output Voltage	48 VDC Nominal 60 VDC Maximum
Maximum Output Current	7 A
Charge Time	2.7 hours from 10% to 99% (while AMR is OFF)
Ambient Operating Temperature	5 to 40°C
Humidity	0 to 95% non-condensing
Weight	2.9 kg
Dimensions (L x W x H)	252 mm x 186 mm x 80 mm

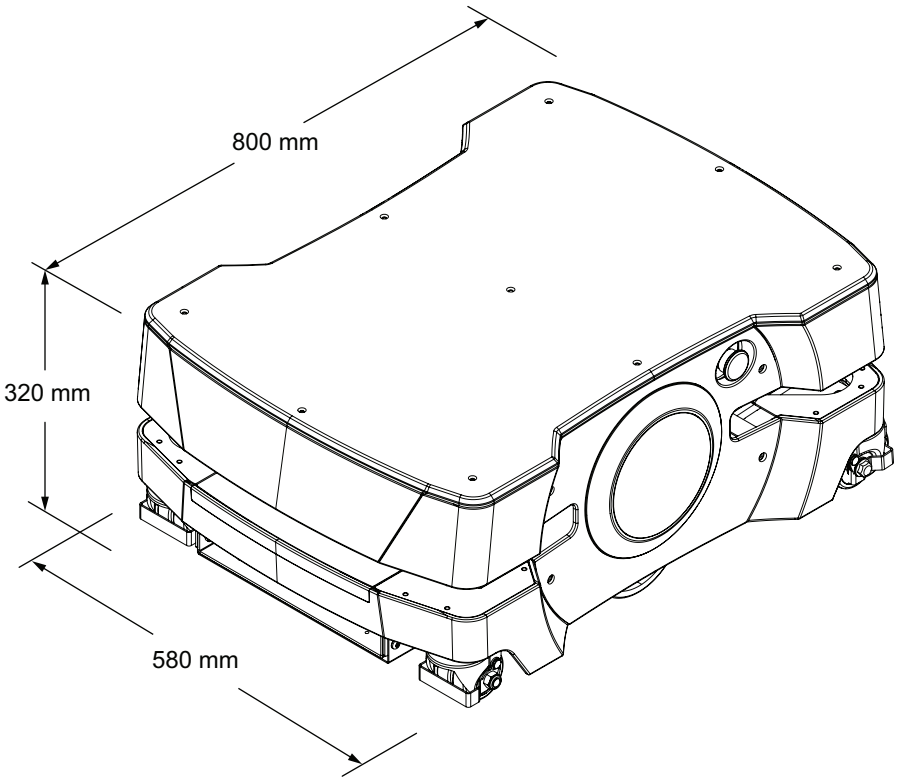
Dimensions

(Unit: mm)

LD-150 AMR Dimensions



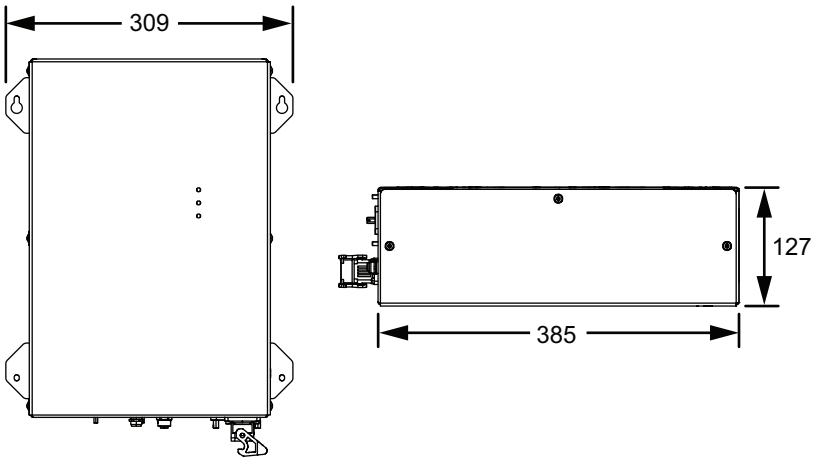
LD-300 AMR Dimensions



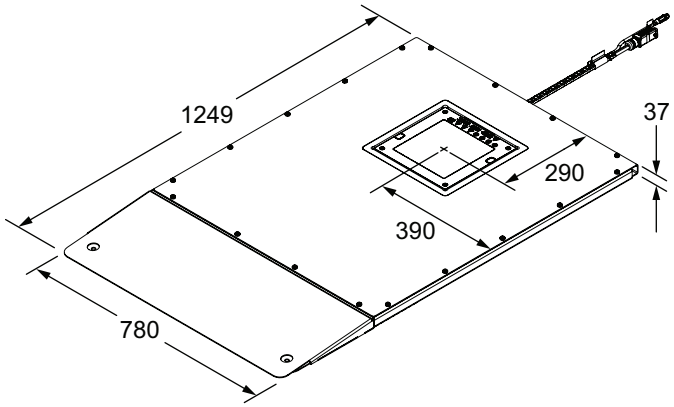
Dimensions

(Unit: mm)

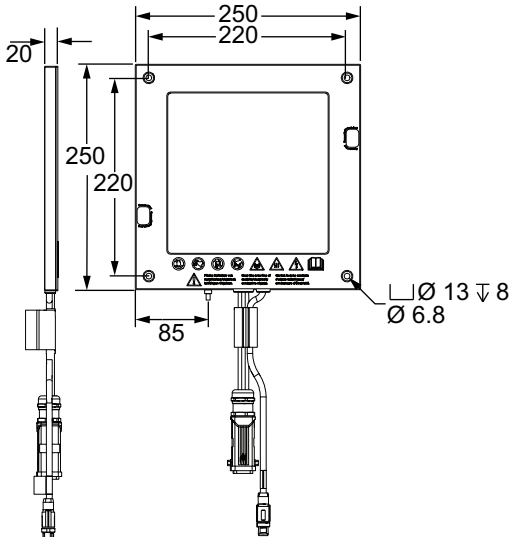
Stationary Electronics Dimensions



Wireless Charging Ramp Dimensions



Stationary Coil Dimensions



Related Manuals

Manual No.	Title
M145	AMR (Autonomous Mobile Robot) LD-150 Platform Hardware Manual
M146	AMR (Autonomous Mobile Robot) LD-300 Platform Hardware Manual
M150	AMR (Autonomous Mobile Robot) LD-150, LD-300 Platform Operations Manual
I617	Advanced Robotics Command Language Reference Manual
I618	Advanced Robotics Command Language Enterprise Manager Integration Manual
I637	Fleet Operation Workspace Core Integration Toolkit User Manual
M107	Fleet Operation Workspace Core Integration Toolkit - MQTT API User's Manual
I665	Fleet Operations Workspace iQ User's Manual
I677	Mobile I/O Box User's Manual
I695	Virtual Fleet Manager Installation Guide

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Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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

OMRON Corporation Industrial Automation Company

Kyoto, JAPAN **Contact : www.ia.omron.com**

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

OMRON ASIA PACIFIC PTE. LTD.
438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011 Fax: (65) 6835-3011

OMRON ELECTRONICS LLC
2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON ROBOTICS AND SAFETY TECHNOLOGIES, INC.
4225 Hacienda Drive, Pleasanton, CA 94588 U.S.A.
Tel: (1) 925-245-3400 Fax: (1) 925-960-0590

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

Authorized Distributor:

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