

LN50

All-Terrain Litter Vacuum with Hydraulic Arm



LN50 product video: <u>https://www.youtube.com/watch?v=FgHM3U-RbGA</u>

Madvac website: www.madvac.com

Part No.	Description
LN50	LN50 All-Terrain Litter Vacuum with Hydraulic Arm
	Includes the following standard features:
	* Two convex mirrors mounted on vacuum arm
	* Fully street legal lighting package including SMV emblem
	* Strobe amber beacon
	* Exhaust bag dust control system
	* Operator head protection cushion (headrest)
	* Silent pack (for extra sound proofing)
	* Emergency stop button
K14008	48 in. (1219 mm) vacuum head, hydraulic raise/lower with dual vac port
K11937	Retractable wander hose 6 in. (152 mm) X 15 ft. (4.5 m)
K11823	Broom and rake holder
63271	Litter collector bags (100 bags)
K12198	Bagless debris system (kevlar bin instead of litter collector bags)
K15293	Water mist system with 10.17 gal. (38.5 L) water tank (for additional dust control)
K12106	Overhead sunshield roof
K15280	Heated seat
K19519	3-way floor-mounted heater (keeps operator's feet warm)
K13846	Foot activated horn (instead of pressing steering wheel turn signal lever)
K13212	Front strobe light
K9600	Tire flatproofing - liquid sealant (all wheels)
K12228	Fire extinguisher 2.2 lb (1 kg. dry powder)



Awarded Contract

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LADSO Product Overview

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From concrete to grass, the LN50 can tackle all types of urban terrain with ease.

Application

- Parks and grass areas
- Sidewalks
- Bike and pedestrian lanes
- Parking lots
- Curb side
- Alleys
- Pathways
- Alongside buildings



- Cities & municipalities
- Outdoor cleaning contractors
- Airports & seaports
- Transit authorities
- Healthcare services
- Distribution centers
- Educational & sports facilities
- Manufacturing facilities
- Amusement parks
- Casinos
- Military
- Correctional facilities

Customers

Shopping malls

113 in. (2870 mm)



Dimensions

Designed for narrow and hard-to-reach areas such as sidewalks and alleys







Madvac

Ground Clearance & Curb Climbing

Curb climbing: 7 in. (178 mm) tall

Weight

- Net/dry weight: 2633 lbs (1194 kg)
- Gross vehicle weight rating: 3600 lbs (1633 kg)
- Axle weight rating: front 1402 lbs (636 kg); rear 5423 lbs (2460 kg)





Reliable, Robust, Long-lasting

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• Heavy gauge steel body on a welded 0.25 in. (6.35 mm) structural steel frame • Electrostatic powder-coated paint

Cabin

Spacious cabin: 68 cu. ft. (1.93 cu. m.)





High seating for greater visibility & safety Armrest, headrest, and optional heated seat for operator comfort

Sunshield Rooftop

Sunshield helps operator stay cool





Engine

- Model: Kubota Diesel D1105– E3B (EPA Tier 4 Final)
- Engine power: 24.8 hp (18.5 kw) @ 3000 rpm
- Displacement: 68.53 cu.in. (1123 cc)
- Air cleaner: 2-stage
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 indicator



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General Machine Performance

Max. forward speed: 12 mph (19 km/h)
Max. reverse speed: 5 mph (8 km/h)
Min. isle turn: 180 in. (4572 mm)
Internal turning radius: 25 in. (635 mm)
Gradeability: 11.3 deg. (20%) with full & empty hopper



Instrument Panel

- Turn signal/horn/beacon/work light switch and lever
- Fuel gauge
- Operator presence indicator

- Parking brake indicator • Left signal indicator • Right signal indicator • Engine oil pressure indicator • Alternator indicator • Engine temperature light • Hourmeter

- Glow plug indicator
- Hazard light switch

Steering: automotive type, power assisted Motion control: heavy-duty hydrostatic

Single traction pedal

Easy to operate: no CDL required



Safer & more comfortable operation





- Front wheel drive
- Brakes: front hydrostatic brake; rear mechanical disc parking brake
- Tires (all 4 wheels): regular: 20.5 in. (521 mm); turf: 20 in. (508 mm)

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Suspension

- Front: multi-layer transverse, beam axle leaf springs with torsion bars
- Rear: heavy-duty shocks and spring





More comfort, better traction and a safer ride





Lighting

Complete road lighting and signaling package

- Strobe beacon
 - LED headlight
- LED turn signals
 - LED brake lights
 - LED flashers
- LED backup lights
- Back up alarm
- License plate holder with light
- SMV emblem



Front Strobe Light

Optional front strobe offers additional lighting and safety

Can easily do an 8-hour shift

Fuel Tank

Capacity: 10.2 gal. (39 L)



Capacity: 12.5 gal. (48 L)

Hydraulic Oil Tank

Easily accessible with level indicator

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Vacuum rating: 2200 CFM

Vacuum fan position: bottom mounted

Vacuum fan diameter: 14 in. (365 mm)



Vacuum Fan & Suction System

 Straight-through suction system compacts litter 2:1 ratio No litter comes in contact with the fan

4 ft. (1220 mm) reach 270-degree arm movement

Vacuum Hose

Industry-leading accessibility to litter



Diameter: 8 in. (203 mm)



For operator safety

Vacuum Hose Support Arm

Eliminates potential for workers' compensation claims

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Convex Mirrors: vacuum arm mounted

Offers 340-degree visibility

Vacuum Arm Handle

Two-position controls for effortless use (patented power assist)

Makes litter picking effortless & injury free

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2 operating positions with one on each side of the vacuum head

Vacuum Head Optional

Effortless vacuuming, simply drive over litter



Wander Hose

Optional

For confined, hard-to-reach areas



Length: 15 ft. (4.57 m) Diameter: 6 in. (152 mm)

Container

One bag One container Easy, Fast, Efficient

- 16-gauge powder-coated steel container
- Total litter capacity: 100 gal. (378 L)



One container, one bag for easier bag changing process that takes only 45 sec!

Bag size: 42 in. x 51 in. (1066 mm x 1295 mm)

Changing Litter Bags

Bagless Debris System: Kevlar Bin



Optional Kevlar bin can be filled, then emptied into off-the-shelf bag

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Dust Control

Exhaust bag captures dust particles that can escape from the minute holes of the special Madvac collector bags or Kevlar bin



Dust Control

Optional intermittent water mist system with 10.17 gal. (38.5 L) water tank: controls dust and eliminates risk of fire inside the container



Safety

Fire extinguisher (optional)

STRUCTION

R.O.P.S. rollover protection system

adi





Foot Step

Helps operator climb on board easily and safely

New standard feature (Nov. 2020)



Foot Heater

Optional 3-way floor-mounted heater keeps operator's feet warm during cold weather





Foot Activated Horn

Optional foot activated horn gives operator more ease and convenience than pressing the turn signal lever

Convenience



Broom/rake holder (optional)

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Tire flat proofing (option)

Console Accessory Box

Console accessory box with USB / 12V aux outlet and switch for optional floor heater and optional water mist system

New standard feature (Nov. 2020)



Cellphone adhesive surface prevents phone from moving or falling

New standard feature (Nov. 2020)





Cell Phone Holder







License Plate Holder



Easy access to all critical components of the machine

Hinged side door and tilt seat for engine access





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Easy access to all critical components of the machine

Hinged side door for oil cooler and radiator access To schedule a demo, request a quote, or for more information on the LN50 all-terrain litter vacuum:



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