Madvac® LR50 – Compact Robotic Arm Litter Vacuum

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The Madvac® LR50 Advantage

Protect Your Environment

The high profile Madvac® LR50 will show your citizens and businesses the commitment to clean and maintain litter in your environment.

Innovative Ergonomics

- **Ergo Design Vacuum with Multi-Directional Joystick Control**
  - Six position joystick for effortless use.
- **High Operation Seating for Safety and Visibility**
- **Full Instrumentation**
  - Operator friendly control panel gauges.

Industry-Leading Performance

- **Up to 12 mph (19km/h) Road Speed**
  - Faster and greater area coverage.
- **Front Wheel Drive**
  - 20" (508 mm) drive wheels climb 7" (178 mm) curbs with ease.
- **2900 CFM Vacuum Rating (82.12 CMM)**
  - Industry leading vacuum picks up the heaviest litter!
- **On and Off Road**
  - Access litter on grass areas, ground, asphalt and concrete.
- **Unequalled Suction**
  - Unrestricted airflow due to 2-stage litter and dust filtration.
- **All Welded Heavy Gauge Structural Steel Frame**
  - Built to last.

Efficient, Fast Collection

- **Vacuum Compacts Litter 2:1 Ratio**
  - Resulting in 100-120 gallons (378-454 L) into a single heavy-duty disposable / re-usable bag. Due to its straight-through suction system, litter is easily collected up to 6 times faster than manual litter picking.
- **Advanced 2 micron dust filtration (option)**
  - Keeps you, pedestrians and your environment clean.

Engineered for Greater Productivity

- **48" (1.2 m) Wide Vacuum Head (option)**
  - Cleans 105,00 sq.ft. (14,000 m2)/per hr.
- **Robotic Power Arm**
  - Makes litter picking effortless and injury free.
- **Bagless Debris System (option)**
  - Kevlar Liner
- **15 ft. (4.5 m) Extension Hose (option)**
  - Permits litter retrieval in hard-to-reach areas.
- **4 Wheel Configuration**
  - 85" (2.2 m) overall length allows access to clean areas that are unreachable by other machines.

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ABOVE
Straight-Through Suction; Dry / Humid / Wet Debris Vacuumed; No Debris passing through the Fan; No Fan to Jam.
For vacuum litter collecting sidewalks, walkways, plazas, public markets, alleyways and other areas with high pedestrian traffic, there’s nothing quite like the LR50!

The Madvac® LR50 litter collector is used worldwide because: It works. It lasts. It pays for itself. Fast!

The Friendly Vacuum Litter Collector

Efficient Cleaning

Expertly designed to meet the cleaning challenges of today’s busy streets, the Madvac® LR50 is a high profile, cost-efficient cleaning machine that safely and effectively cleans city sidewalks, parks and streets. It even gets into confined, hard-to-reach places.

Exclusive Robotic Vacuum Arm

- **Robotic Vacuum Arm**
  Easier operation eliminating fatigue and potential for workers’ compensation claims.

- **270-Degree Arm Movement with 24 sq.ft. (2.2 m²) Working Area**
  – Industry-leading accessibility to litter.

Safety Comes First

- **R.O.P.S. – Roll Over Protection System**
  – Provides extra measure of safety.

- **340 Degree Rear Visibility**
  – Lessens chance for serious accidents.

- **Cab Enclosure with Heater (option)**
  – Keeps you dry and comfortable.

- **Heavy-Duty Coil Spring Rear Suspension**
  – Means more comfort, better traction and a safer ride.

- **Complete Road Lighting and Signaling Package (option)**
  – It’s street legal.

- **All-Wheel Drive (option)**
  – The first and only true off-road litter collector.

Protect your Environment

- **Noise Suppression Pack (option)**
  – Only machine that quietly meets OSHA noise standards for continuous 8-hour shifts.

- **Plastic bottles no longer a public eyesore!**

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# Madvac® LR50 Compact Robotic Arm Litter Vacuum Technical Specifications

## Data and Performance Information

<table>
<thead>
<tr>
<th>Capacities</th>
<th>Vacuum System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank 10.2 gal. (39 L) - 15 hours autonomy</td>
<td>Vacuum Rating 2,900 CFM (82.12 CMM)</td>
</tr>
<tr>
<td>Hydraulic System 12.5 gal. (48 L)</td>
<td>Air Flow Speed 8,400 ft./min (237.8/M/Min)</td>
</tr>
<tr>
<td>Litter Capacity 100 – 120 gal. (378 L – 454 L)</td>
<td>Static Pressure @ Closed Inlet 30 in. of water gauge (7.472 kPa)</td>
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<table>
<thead>
<tr>
<th>Engine Data</th>
<th>Controls</th>
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<tbody>
<tr>
<td>Model Kubota Diesel D1105-E3B</td>
<td>Steering Automotive type, power assisted</td>
</tr>
<tr>
<td>Displacement 68.53 cu in, (1123 cc)</td>
<td>Drive System Heavy duty hydrostatic</td>
</tr>
<tr>
<td>Gross Rated Power 24.8 hp (18.5 kW) @ 3000 rpm</td>
<td>Traction</td>
</tr>
<tr>
<td>Legislation Compliance EPA Tier 4</td>
<td>Drive Front wheel drive, optional four-wheel drive</td>
</tr>
<tr>
<td>Air Cleaner 2 stage Donaldson with restriction indicator</td>
<td>Maximum Forward Speed 12 mph (19 km/h)</td>
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<table>
<thead>
<tr>
<th>Litter Collection System</th>
<th>Traction</th>
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<tbody>
<tr>
<td>Type “Flow through” system with 2 to 1 compaction ratio, with reusable fibrous polypropylene bags</td>
<td>Drive</td>
</tr>
<tr>
<td>Container Construction 16 gauge powder-coated steel</td>
<td>Front wheel drive, optional four-wheel drive</td>
</tr>
<tr>
<td>Vacuum Hose 8 in. (203 mm), joystick controlled</td>
<td>Rear mechanical disc parking brake</td>
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<tr>
<th>Frame/Body</th>
<th>Suspension</th>
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<tbody>
<tr>
<td>Heavy gauge steel body on a welded ¼ in. structural steel frame</td>
<td>Front Multi-layer transverse, beam axle leaf springs with torsion bars</td>
</tr>
<tr>
<td>Storage compartment Electrostatic powder-coated paint</td>
<td>Rear Heavy-duty shocks &amp; springs</td>
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<table>
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<tr>
<th>Dimensions</th>
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<tbody>
<tr>
<td>Width 48 in. (1219 mm)</td>
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</tr>
<tr>
<td>Length 96 in. (2438 mm)</td>
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<tr>
<td>Height 108 in. (2743 mm)</td>
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</tr>
<tr>
<td>Wheelbase 63 in. (1600 mm)</td>
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<tr>
<td>Ground Clearance 8 in. (203 mm)</td>
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*Also available in LN50 model: with 2 position vacuum arm*