



Madvac[®] CR100 – Compact Vacuum Robotic Arm with High Dump

The Madvac® CR100 Advantage

Visibility and Comfort

- Unprecedented visibility from the operator seat plus 200-degree rear view to ensure operator's peace of mind and pedestrian safety.
- Sound-proofed, low vibration, ergonomic cab with adjustable seat, cab heater and optional AC, keeps the operator comfortable and less fatigued.
- Visibility and comfort.
- Heavy-duty all wheel suspension provides better traction, more comfort and safer ride.
- Optional rear camera system for added safety in heavy pedestrian traffic areas.
- Pop-up roof adds to operator's comfort.

Easy to Operate and Maintain

- Ergo Design six-position joystick for effortless use of the robotic vacuum arm.
- Simple automated functions make it easy to operate.

Lightweight, Compact and Maneuverable

- Narrow 43-inch (1092 mm) width and light weighed to reach difficult and delicate areas.
- Sharp turning radius and power steering.



ABOVE
CR100 Internal Fan & Airflow

BELOW
Stainless steel hopper
gives 60" dumping height



FAR LEFT

Cab comfort and panoramic view makes vacuuming easy and safe.

CENTER

Ergonomically located, joystick-controlled, articulated robotic arm to collect hard-to-reach debris.

RIGHT

Low height gives working access to underground garages, tree-lined roads and mass transit shelters.



The CR100 goes anywhere and brings a high profile approach to cost-effective vacuuming. Lightweight enough to move over pavers and does not disturb environmental areas.

Efficient and Productive

- Up to 16 mph (25 km/h) road speed allows vehicle to cover more area in less time.
- “No Fan To Jam”™ patented straight-through suction system vacuums and compacts debris 2:1 without passing through or wearing out the fan.
- High capacity 1.15 cu. yd (0.83 m³) compact 2:1 high dump hopper keeps the CR100 working longer.
- Powerful variable vacuum picks up litter or FOD on rough and delicate surfaces such as asphalt, brick, cobblestones, bike paths and grass.

Built to Last

- All welded heavy gauge structural steel frame built to last!
- Stainless steel debris container resists abrasion and corrosion in order to protect your investment.

Environmentally-Friendly

- Advanced patented 8-micron filter keeps pedestrian and the environment clean (option).
- Powerful and reliable low-emission 31.5 HP diesel engine.

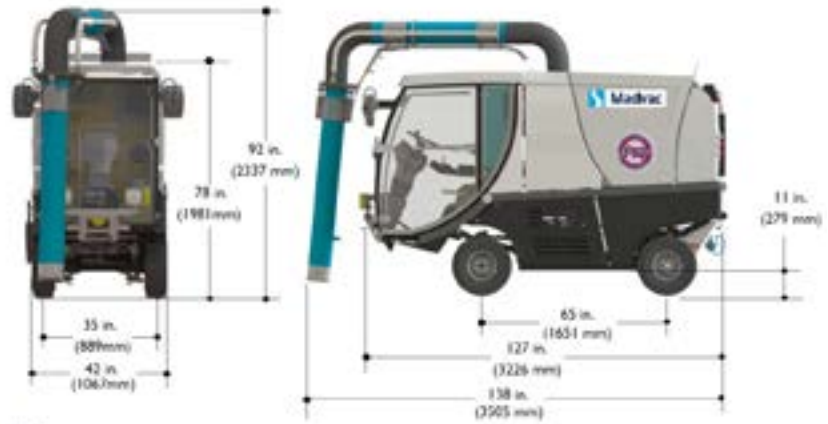
Clean and Safe

- A huge, three-stage advanced patented 8-micron dust filtration system captures the finest particles to provide ultimate cleanliness for operator and pedestrian (option).
- Easy curb-climbing makes transition from street to sidewalk safer.

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Technical Specifications



Data and Performance Information

Capacities		Robotic Arm	
Fuel tank	10.5 US gallons (40 L) 12 hours autonomy	Robotic Arm	Controlled by proportional hydraulic valves
Hydraulic System	17.2 US gallons (65 Liters)	Joy Stick	6-position in cab joy stick controls, Up/Down, Right/Left and In /Out
Engine Data		Vacuum Head	48-inch (1219 mm) in-cab controls hydraulic free floating vacuum head (Option)
Model	Kubota Diesel D1105T Turbo	Wander Hose	6-inch (153 mm) 15-foot (4572 mm) stowed wander hose (Option)
Displacement	68.53 cu. in. (1123 cc)	Frame	
Gross Rated Power	31.5 hp (23,5 KW) @ 3000 rpm	Frame / Body	Heavy gauge steel body 1.5 in x 1.5 in (38 mm x 38 mm) tubing fully welded and reinforced at all stress points
Legislation Compliance	EPA Tier 4 / Euro 4	Electrical	
Air Filter	2 stage Donaldson type	Voltage	12 Volts, 105 AMP alternator and heavy duty battery
Litter Collection System		Instruments	Hour, fuel & water temperature gauges, oil pressure & engine temperature light
Type	"Flow-trough suction" system with approx. 2:1 compaction ratio	Lighting	2 headlights, brakes, turn signals and taillights, 4-way flashers, fold-down beacon
Litter Capacity	1.15 cu. yd. (0.85 m3) Compaction 2:1	Cab	
Payload Capacity	1285 lbs (583 Kg)	Cab	Forward design, 200 degree vision
Vacuum Rating	2900 CFM (82.12 CMM)	Windshield	Full windshield, optional electric windshield
Static Pressure	30-inch water gauge (7.472 KPA)	Steering	Telescopic & tilt steering column
Container Construction	Stainless steel, powder coated	Window	Side windows open on each side
Container Filtration	Stainless steel liner	Roof	Pop-up vent roof
Container Dumping Height	60 inches (1524 mm)	Heating	2-speed heater
Traction		Air Conditioning	3-speed air conditioning (option)
Drive	Front wheel drive	Dust Management	
Maximum Forward Speed	16 mph (25 Km/H)	Dust Control	Three stage 8-micron washable pleated panel filters (option)
Tires	6.00-9, 10 ply	Dimensions	
Brakes	Hydrostatic brakes on front wheels, disc brakes on rear wheels and hand parking brakes	Width	43 inches (1092 mm)
Wheel Base	65 inches (1651 mm)	Length	147.6 inches (3750 mm)
Curb Weight	Dry 3590 Lbs (1632 Kg)	Height	78 inches (1981 mm)
Weight Distribution	Front 63% / Rear 37%	Ground Clearance	8 inches (203 mm)
Grade	Gradeability 25%	Suspension	
Turning Radius	Curb to curb 87 inches (2210 mm)	Front	Leaf springs with stabilizer bars
		Rear	Coil springs and shock absorbers

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