♣In MacLeanMunicipal Vehicle



Setting the Standard for Articulated Municipal Vehicles



MacLean Engineering & Marketing Co. Limited

1000 6th Street East Owen Sound, Ontario, Canada N4K 1H1 T: 519-370-2999 diversified@macleanengineering.com

www.macleanmv.com

MacLean MV6 Specifications

Dimensions and Weight			
Overall length (including rear bumper)		154.5"	3924 mm
Height to top of cab roof		84.1"	2136 mm
Width at fenders		50.1"	1273 mm
Wheelbase		83"	2108 mm
Unit weight (full of fluids, no operator)		6,990 lbs	3,170 kg
Fluid Capacities			
Fuel	Ultra-low sulphur diesel	26.4 gal.	100 L
Engine coolant	Caterpillar Extended Life Coolant (CAT EC-1) or ASTM D6210 compliant	3.4 gal.	13 L
Engine oil	Mobil 1 ESP 0W40 oil or equivalent (must meet API CJ4 requirements)	2.1 gal.	8 L
Hydraulic oil	ISO 11158 hydraulic oil; multi-grade recommended	18.5 gal.	70 L
Axle differential	SAE 80W90 GL-5 oil or equivalent (must contain limited slip additive)	1 gal. per axle	4 L per axle
Axle hub (2 per axle)	SAE 80W90 GL-5 oil or equivalent (must contain limited slip additive)	17 oz. per hub	0.5 L per hub
Rear axle gearbox	SAE 80W90 GL-5 oil or equivalent (must contain limited slip additive)	51 oz. per axle	1.5 L per axle
Pump drive gearbox	Mineral based ISO VG 220 gear oil	42 oz.	1.25 L
4 to 1 gearbox	Mineral based ISO VG 220 gear oil	42 oz.	1.25 L
PTO clutch	SAE 15W40 motor oil	17 oz.	0.5 L
Brake fluid	Dexron III ATF	68 oz.	2 L

	Standard	Optional
Engine		
Caterpillar C3.6 Tier 4 Final emission compliant 74 HP @ 1600–2300 RPM 313 lb-ft @ 1200 RPM	х	
Caterpillar C3.6 Tier 4 Final emission compliant 120 HP @ 2000–2300 RPM 369 lb-ft @ 1500 RPM		х
Caterpillar engine protection system	х	
Cold starting aid controlled by the engine ECM	х	
Reversing engine fan		х
Drive System		
Fully hydrostatic with 3-speed drive system Low speed range 0-12 km/h (0-7.5 mph) Intermediate speed range 0-18 km/h (0-11.2 mph) High speed range 0-32 km/h (0-19.9 mph)	х	
"Shift on the fly" between speed ranges	х	
Directional control via foot operated hydraulic treadle pedal	х	
Axles		
Dana 111 heavy-duty outboard planetary style axles complete with limited slip differentials front and rear	х	
Differential locking axles; front only or front and rear		х
12,000 lb (5,443 kg) capacity per axle		
Braking Systems		
Hydrostatic dynamic braking	х	
Hydraulically actuated internal wet style disc brakes acting on all four (4) wheels		
Spring applied hydraulically released (SAHR) parking brake acting on all four (4) wheels		
Steering		
Two (2) steering cylinders controlled through an open-centre steering valve powered by priority flow	х	
Articulated steering 40 degrees each way		
Inside turning radius of 90" (2286 mm)		
Tilt and telescopic steering column with self-cancelling signal lights		
Power Take-Off (PTO)		
540 RPM front mount PTO		
Wet multi-disc hydraulically actuated clutch		
4:1 planetary style reduction gearbox		

	Standard	Optional
Hydraulic System		
24 GPM (91 LPM) hydraulic gear pump	х	
Additional 18 GPM (68 LPM) hydraulic gear pump, tandem mounted for total theoretical rating of 42 GPM (159 LPM)		х
Mechanical 4-spool valve controls attachment function(s)	х	
Standard high flow hydraulic circuit is reversible and proportional	х	
High hydraulic oil temperature and low hydraulic oil level warning system	х	
Thermostatically controlled bypass from oil cooler for cold weather start-up	х	
Auto run for sander (start/stop for standard high flow hydraulic circuit)		х
Electrical		
1125 CCA battery; 150 amp alternator protected by main breaker switch	x	
Automotive style relays and solenoids; mini blade fuses contained within watertight enclosure	x	
Lighting		
Two (2) 9 watt (each) LED headlights with 18 watt high beam feature	T	
Two (2) 18 watt (each) LED front work lights One (1) 18 watt LED rear light One (1) 27 watt interior light	x	
LED taillights and signal lights	х	
LED strobe lights (4 total) mounted on cab roof corners	х	
Enhanced LED strobe light package with additional strobes mounted on cab and rear hoods		х
Rear Hoods and Service Access	•	
Hinged side engine access panels easily removeable without use of tools	х	
Wheels and Tires		
10.0 x 16.5, 8 ply loader lug style on steel 16.5" x 8.25" rim	х	
245/75/R16, 10 ply winter radial tires		Х
31 x 15.5 x 15, 10 ply turf style summer tires		X
Cab Features		
Mounted on four (4) isolation mounts to reduce vibrations and enhance operator comfort	x	
ROPS certified to 12,000 lbs	×	
DOT approved tempered safety glass is tinted and all glass is flat	X	
Two (2) exterior side mirrors on outside of cab and one (1) rearview mirror inside cab	X	
7" multifunctional colour touchscreen master controller	х	
Reverse camera		Х
Multi-camera system		Х
AM/FM/Bluetooth radio with two (2) speakers	х	
Retractable sun visor	х	
GPS speedometer		x
Cruise control		х
Pantograph intermittent windshield wiper	х	
Fully adjustable air ride seat with 3-point heavy-duty retractable seatbelt	х	
Removeable sound barrier floor mats	х	
High output heating/defrost system	х	
Air conditioning		х
Cab roof and headlight guard		Х
Illuminated licence plate mount		х
Safety Features	•	
Automatic PTO and high flow hydraulic shutdown if operator leaves the seat for more than 5 seconds	х	
PTO, high flow hydraulics, and differential locking axle functions automatically disengage when high range travel speed is selected	х	
Park brake is automatically activated each time the engine is started and when the operator leaves the cab	x	
Reflective slow-moving vehicle sign mounted on rear of tractor	×	
Reflective decals on cab	x	
Backup alarm rated at 107 dBA	x	
Warning/Caution/Danger safety decals	X	1
Warning/Caution/Danger safety decals First aid kit		×



MacLean MV6

The most productive, comfortable, and advanced articulated Municipal Vehicle ever produced!

Completely redesigned cab

Better visibility

More headroom; more legroom

Improved heating and cooling

Advanced electronic master controller
Touchscreen controls for most functions
Easier to operate

Improved service access

New rear hoods featuring swing out service doors

Proven mechanical strength and durability
74HP Caterpillar Engine
(Optional: 120HP Caterpillar Engine)
Tier 4 Final
Heavy Duty Dana Axles
Enclosed Wet Disc Brakes
"Shift On the Fly"
Proportional Hydraulics
Directional and Proportional High Flow Hydraulics

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