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MAL 2500 Aluminum Septic Service Vehicle

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The MAL2500 aluminum service module is designed for 33,000 GVW single axle trucks with a 138" CA measurement. The 2500 gallon waste compartment maximizes payload to take advantage of the 33,000 GVW truck which avoids the 12% Federal Excise Tax. Pump packages from NVE, Masport, Jurop, Moro, and Wittig give you the performance you need for even the most demanding jobs. Custom tanks are also available upon request. Designed to reduce maintenance costs and improve fuel economy while maximizing payload.



Tank Design and Material

- Waste Compartment:** Volume - 2500 gallons, Shell – 1/4" ASTM 5454, Heads – 66" Diameter Barrel, two 1/4" Baffles, External Stiffing Rings, Lifting Lugs, Top and Rear 20" Stainless Steel Manways with Aluminum Tank Collars, Access Ladder with Non Slip Steps. Three 5" Sight Glasses in Rear Head,
- Finish** Bright Finish On Shell and Hose Tray Sides
- Mounts:** Tank rests on chassis frame on captive 2" x 3" plastic lumber strips. Front consists of spring loaded mounts with 5/8" Grade 8 bolts and lock nuts. Center mount H-style mounting bracket. Rear mounts consist of 3/8" and 1/4" brackets. Brackets are bolted with 5/8" diameter Grade 8 plated bolts, to frame and to tank with 5/8" bolts.
- Dump Locations:** **Waste** – 6" Sump Style with flange reduced to 4" lever valve with male camlock fitting and cap. **Optional** – Full 6" with 6" valve, fitting and cap
- | Inlets: | | | |
|-----------------|-------------------|---------------------|------------------------|
| Rear Inlet | 3" with Riser and | Stainless Deflector | Rear Head Curb Side |
| Optional Front | 3" No Riser | Flush w-Tank Bottom | Front Head Curb Side |
| Optional Rear | 3" No Riser | Or Deflector | Rear Head Drivers Side |
| Waste indicator | 5" sight glass | Three in Rear Head | Curbside |
- Standard Features:** Full Length 31" Wide Aluminum Hose Trays both sides, Betts Vapor Proof LED Lights, Rear Aluminum Hose Hooks, Full Length Tank Shell Protectors above hose trays, heavy Duty Rear Bumper with Aluminum Cover. Rear Tank Rub Rails, Rear Halogen Work Lights, Full DOT Light Package,

Vacuum System Specifications

Standard Pump: Masport HXL75V pump with pressure dump
Standard Pump Drive: PTO with torque overload protection.

Vacuum System Features:

- Vacuum & Pressure Reliefs
- Electronic fast idle system (chassis option)
- Automatic Pump oiling system
- Remote Poly Pump Oil Reservoir
- Plumbed with Hi Temp Vac Hose & Stainless Clamps
- Primary overflow valve NVE Aluminum(in-tank design)
- Secondary check valve (in-line design)
- Moisture trap
- Exhaust muffler/Oil catch
- Vacuum gauge
- Brass Lever Style Valves w-Fittings & Caps
- 30/30 Vacuum Gauge
- Right Angle Gear Box
- Woods Style Coupler
- Heavy Duty Driveline
- Full Installation and testing

The service module features a PTO driven vacuum system for pumping waste with a four way valve for pressure off loading and unplugging lines. Right angle gear box, woods style coupler and driveline keys help prevent drivetrain damage in the case of an overflow or pump failure. Preset fast idle control protects the pump from un-intentional over speeding, Vacuum and pressure reliefs are installed to prevent tank or pump damage. The automatic pump oiling system found on the standard pump needs no adjusting and the clear poly remote oil reservoir allows for easy viewing of the oil level to help prevent pump damage caused by oil starvation. All of this from a trusted name with local representation. Call your area manager or the septic truck sales manger for more details.

Performance on 2500 compartment:

1250 RPM	Rating (CFM)	Vacuum levels	
		12" HG	20" HG
HXL75	230	85 Seconds	141 Seconds

The above times are estimates for empty tank performance at Sea Level with the standard 230 CFM Pump

Optional Features

- Wittig RFL 100 Air Cooled or RFL 150 Water Cooled
- Masport HXL75WV, HXL15V, HXL15WV, HXL400WV Full Line Available
- NVE 367 or NVE 506 Air or Water Cooled Full Line Available
- Jurop R260, PNR 84 etc. Full Line Available
- Blowers From Robuschi, Sutorbilt, Jurop, and Moro
- Moro M10, AC4, PM 100, Full Line Available
- Jeters. Pressure Washers and Wash Down Pumps
- Custom Tanks (requires extra lead time)
- Custom Valves
- Hotshift PTO with Remote Mounted PTO Switch
- Hydraulic Drive Systems
- DOT safety equipment package (flag and reflector, first aid kit, fire extinguisher)
- Tank Vibrators
- Hose Tray Lining (Line X Style)

Optional Features

- Hose Reels
- Toilet Services Stations (Combo Tanks)
- Multiple Compartments
- Prefilters
- Digital Level Gauges
- Aluminum or Steel Storage Boxes
- Additional Manways & Ladders
- Heated Collars
- Hoists & Full Opening Rear Doors
- Aluminum Vacuum Components
- Remote Controls
- Three compartment tanks (requires extra lead time)
- Custom Tank & Chassis Painting
- Fleet Priced Chassis from Peterbilt, GM, Ford, International, Kenworth, Isuzu, Sterling, Freightliner, Volvo, Mack and more.