

Large Mobile Pumps

Axial & Mixed-Flow | Complete Pump Stations on Wheels™



Heads up to 60ft./18M

Flows up to 38,000 GPM/2.5 M³/S

The Power to Move Water® Since 1926
mwipumps.com



MWI mobile pumps are Complete Pump Stations on Wheels™. Our pumps provide advantages over traditional stationary pump stations when water levels change due to weather or climate change, preventing them from being left “high and dry.” Available in portable diesel, electric-diesel, and electric versions, these portable pumps are easily moved and operational within minutes.



Where MWI Pumps are Used



MUNICIPAL

- Flood control & storm water drainage
- Emergency pumping
- Sewer bypass & repair
- Pump station bypass
- Diesel backup pumps in case of power loss



MINES & QUARRIES

- Open pit & underground drainage
- Process water supply & transfer
- Aggregate wash down



INDUSTRIAL

- Large-volume processes
- Temporary raw water
- Wastewater bypass
- Water management



CONSTRUCTION

- Site dewatering & drainage
- River & stream bypass
- Surface water drawdown



MARINE

- Drydock
- Water transfer & waterway diversions
- Moving large volumes of water



AGRICULTURE

- Irrigation
- Aquaculture
- Flood control
- Drainage

Mobile Hydraflo™

The Mobile Hydraflo™ pump is a unique variation of the high-efficiency, large-volume Hydraflo™ hydraulically-driven water pump and considered is *A Complete Pump Station on Wheels™*. The Hydraflo™ is a submersible axial or mixed flow pump driven by a hydraulic pump and motor through flexible hydraulic lines. This innovative design allows for great flexibility, cost savings and speed in the placement of the pump.



Since little to no civil works are required to install the Mobile Hydraflo™, total project costs can be reduced by up to 75%. Construction, design and install time of building a traditional pump station are completely eliminated with the Mobile Hydraflo™ pumping system. Simply drive up, hook up, start up and you're ready to go.

Mobile Lineshaft



(1) Electric motor requires an external power source

The Mobile Lineshaft pump is a completely portable pump station on wheels. This low-maintenance lineshaft pump has a right-angle gear drive and is powered by either a diesel engine or an electric motor.⁽¹⁾

With over 50 years of experience in designing and building mobile pumps, the frame of the Mobile Lineshaft pump has been engineered for safe operation at all angles without being anchored to a foundation. The lineshaft pump can be oil or water lubricated and can be operated at several angles without requiring support at the bottom.

Mobile Submersible Electric

MWI offers a Mobile Submersible Electric pump complete with generator and light tower. Sizes range from 8" to 16". These versatile units can be used to provide mobile generating power or portable lighting or the high volume flows that come only from an axial or mixed flow pump for serious water moving.



Mobile Features



A Fully-Operational Pump Station on Wheels™

FAST INSTALLATION AND SETUP

Saves time and money with one man installation - Operational within minutes

FULLY PORTABLE & MANEUVERABLE

Can be easily moved when and where you need it most and equipped with 180° turntable when space is limited

BUILT TOUGH FOR LONG LIFE

Designed heavy-duty & durable for the toughest jobs, quality manufacturing insures years of worry-free operation

INSTALLATION STATION SAVINGS

Save up to 75% on civil works/facility building costs

SELF-CONTAINED PUMP STATION

Ready for the most demanding pump requirements with no additional lifting equipment required

LOW OPERATING COST

With high overall efficiency

HEAVY TRASH LOADING

Large capacity can handle solids up to 6"

QUICK PARTS & SERVICE

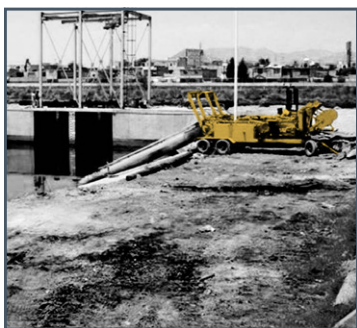
USA made with standard off-the-shelf bearings and seals allowing for quick response and lower replacement cost, means less downtime when service is needed

RUN-DRY ENDURANCE

Oil or water lubricated mechanical seals allow the pump to run dry and safely shut down without damage to internal components

ENVIRONMENTALLY-FRIENDLY

Biodegradable hydraulic fluid used



Platform Pumps™

MWI Platform Pumps™ are semi-mobile for temporary or permanent applications. They require minimum civil works and can be relocated if conditions change.

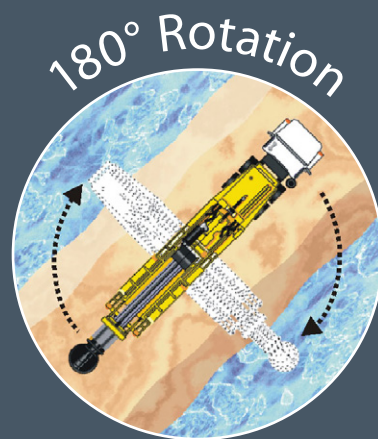


The turntable mechanism in traveling position.

Mobile Hydraflo™ Turntable

For applications where space is limited — like dams, levees, dikes, or narrow roadways, MWI created the Mobile Hydraflo™ Turntable. Our engineers developed this feature, available on our 30" models only, for increased maneuverability. The turntable option is highly recommended when reversing pumping locations regularly in a confined space. It is capable of hydraulically raising and lowering the entire unit off the ground, providing 180° rotation in either direction.

This unit is designed with plumbing that consists of a special hose carrier that feeds the hydraulic oil to the water pump. The water pump can operate at any rotated position without having to disconnect or reconnect the flexible hydraulic hoses.



Components Materials & Options



1. 30" Hydraflo™ Pump with 45° Intake

2. Crane / Boom / Track Assembly

3. 20ft. (6.1m) of Discharge Pipe

4. Discharge Hose Winch (manual)

5. 50ft. (15.2m) of Flexible Discharge Hose

6. 45° Elbow and Vacuum Breaker

7. Hydraulic Winch

8. Sight Glass

9. Tow Bar (available on 24" or smaller models)

10. Steerable Front End (available on 24" model)
11. Battery

12. Day Tank

13. Diesel Engine

14. Hydraulic Pump

15. Hydraulic Control Panel

a. Hydraulic System Pressure Gauge

b. Suction Vacuum Gauge

c. Oil Temperature Gauge

d. Failure Reset

e. System Loading Valve
16. Oil Reservoir

17. Wheel / Spring / Axle Assembly

18. Spare Tire

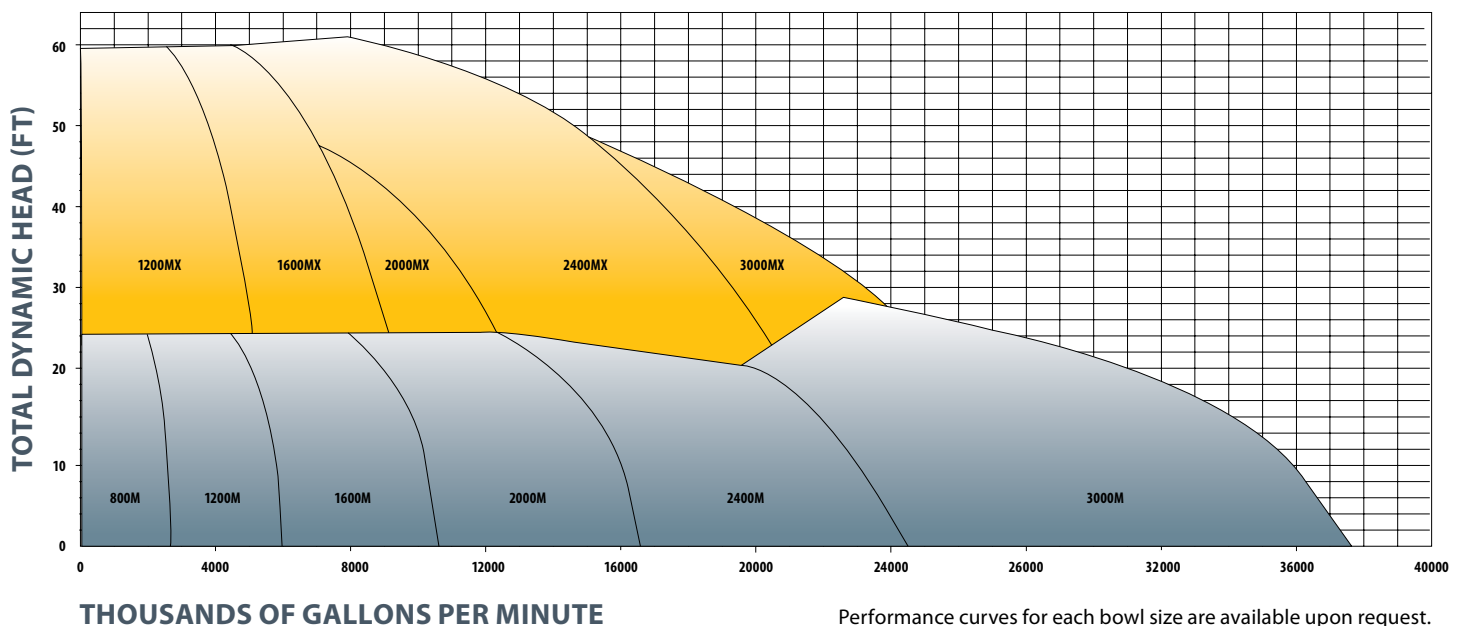
The unit is simply backed into position. A hydraulic winch lowers and raises the water pump and discharge pipe for ease in loading and unloading. After lowering the water pump to the desired position, the 50 feet of flexible discharge hose is unrolled to the point of discharge. There is no need to prime the pump. Once the diesel engine is activated, the mobile unit is ready for the pumping operation. MWI Mobile pumps have been used worldwide for agricultural irrigation, storm drainage, dewatering, emergency pumping, and almost any application for moving large volumes of water.

MATERIALS & OPTIONS	
Standard engine	John Deere/Deutz/Caterpillar
Rating	According to flow and TDH requirement
Tires	Standard road
Brakes	Surge or electric (on 30" model)
Hydraulic Reservoir Capacity	From 40 Gal
Diesel Fuel Reservoir Capacity	From 158 Gal
Discharge Pipe(s)	16"/20"/24"/30" Steel
Discharge Hose Length	50'
Lights	Boom lights included

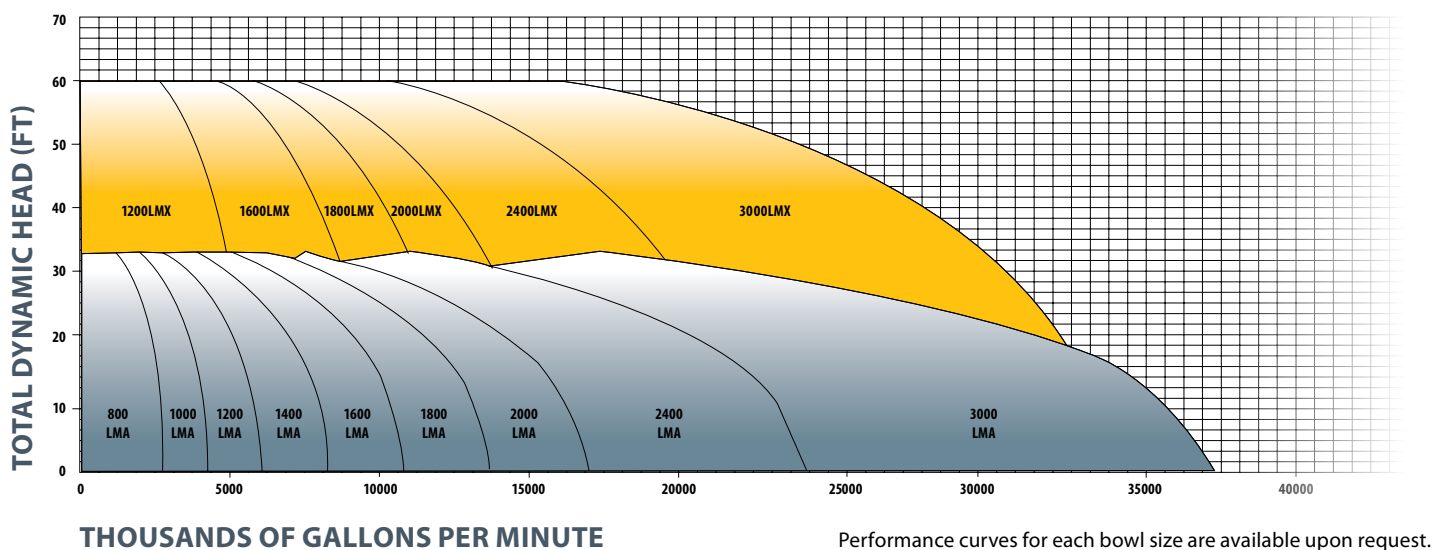
Performance



Mobile Hydraflo™ Performance Curve



Mobile Lineshaft Performance Curve





About MWI Pumps

MWI Pumps is an American-made ISO 9001:2015 and 14001:2015 (pending) certified pump manufacturer based in Deerfield Beach, Florida. Each pump is constructed using innovative, patented design concepts and heavy-duty materials to ensure durability and reliability. Further quality measures include indoor testing per H.I. 14.6 for flows up to 150,000 GPM. Our pumps are offered at competitive prices, and we always put our customers first. With our in-house team of engineers, years of experience, product variety, extensive rental fleet, and ability to customize each pump, we work to meet or exceed the needs of any job no matter the size.

Founded in 1926, MWI Pumps specializes in the design, manufacturing and construction of high-efficiency, large-volume axial- and mixed-flow propeller water pumps, centrifugal and mobile pumps, and solar-powered village water supply units. Known around the world to be proven and safe, our industrial rugged pumps are ideal for a variety of applications, including:

- Construction dewatering
- Emergency pumping
- Open pit dewatering
- Agricultural pumping
- Sewage bypass pumping
- Final effluent
- Water management
- and more
- Flood control
- Storm water pump stations
- Dam bypass

MWI has provided professional pump rental and repair services since 1968, with locations throughout Florida, and representatives throughout the USA and worldwide. Contact us to learn more about our water pumps, pump repair, pump sales, cost-effective rentals, and other industrial water pump manufacturing services.

MWI Pumps

33 NW Eller Street, Deerfield Beach, FL 33441

General Inquiries: 954-426-1500 | Emergency Tel: 772-770-0004

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