



Large Axial Flow & Mixed Flow Propeller Pumps

Mobile Pumps



...
Moving Water Worldwide™ - Reliably and Efficiently

Mobile Pumps from MWI

Mobile Hydraflo™ ...

The Mobile Hydraflo™ pump is a unique variant of the standard Hydraflo™ water pump and 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 great flexibility, cost savings and speed in the placement of the pump. Since little to no civil works are required to install the Hydraflo™ pump system, total project costs can be reduced by up to 70%, the construction, design and installation time of building a pump station is eliminated, and its design allows the pump to become mobile.

The portability of the Mobile Hydraflo™ permits easy movement to various locations where large volumes of water need to be pumped. Everything needed for pumping is mounted on a trailer. This includes: the diesel engine, water pump, fuel tank, hydraulic oil reservoir, rigid discharge pipe, flexible discharge hose, and a complete safety shutdown system.

Mobile Lineshaft™ ...

MWI's Mobile Lineshaft pump is a completely movable 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 (which would require an external power source).

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.

Mobile Lineshaft™ & Mobile Hydraflo™ Advantages

- Eliminates the heavy civil works required for a traditional lineshaft pump station
- Low operating cost
- High overall efficiency
- Can be easily moved to different locations
- Pump can be oil or water lubricated
- Experienced, quality manufacturing insures years of worry-free operation
- No additional lifting equipment required
- Fully self-contained pump station ready for the most demanding pump requirements
- One man installation- operational within minutes

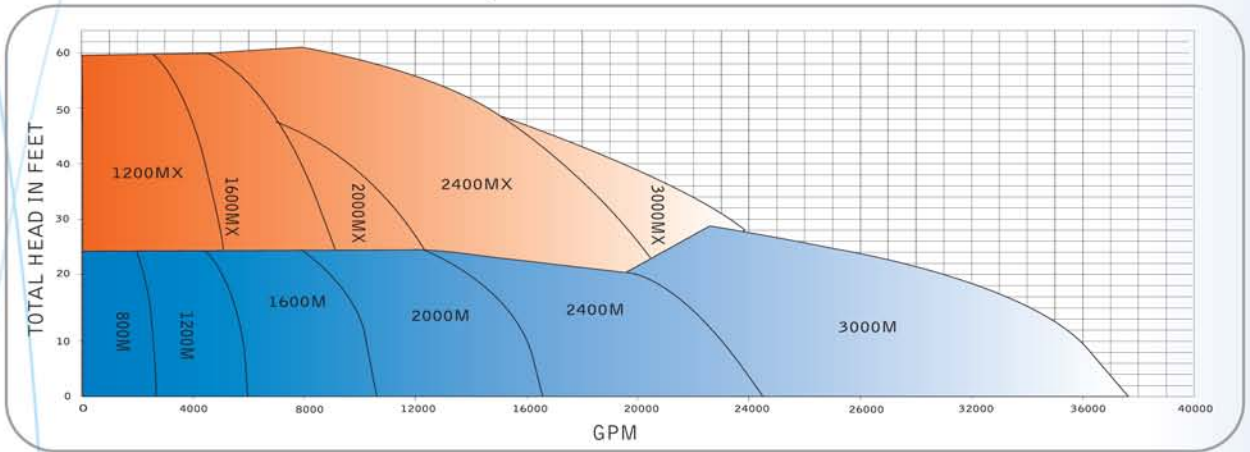
Mobile Submersible Electric™ ...

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.

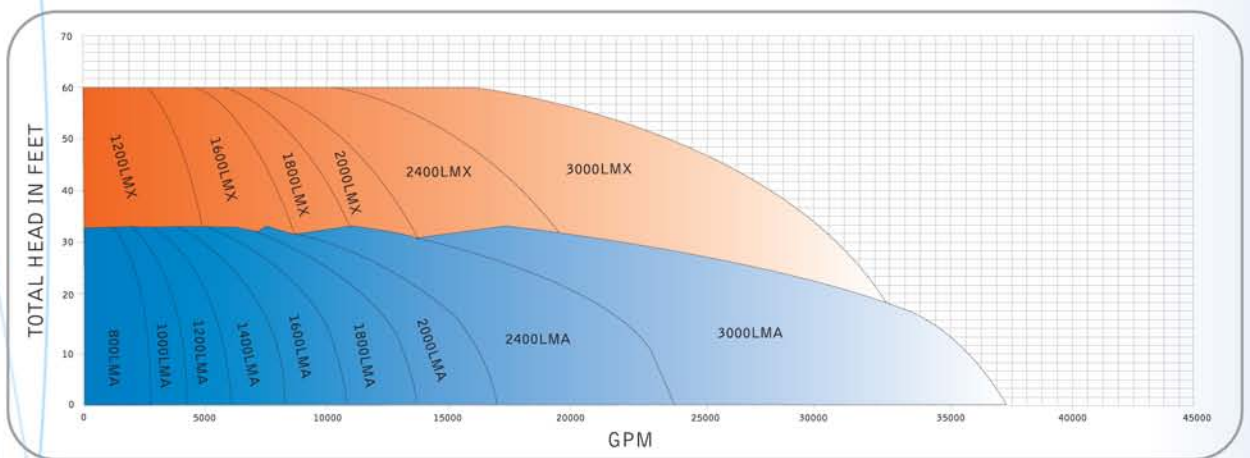


Performance and Physical Data...

Mobile Hydraflo™ Performance Curves



Mobile Lineshaft™ Performance Curves



Physical Data

Model Number ¹	General Dimensions ¹						Weight ⁴ (Approx)		Shipping Volume		Type Diagrams displayed below	Front End
	A ³		B		C		Lbs.	Kg.	Meters	Feet		
	Meters	Ft.	Meters	Ft.	Meters	Ft.						
800M	7.32	24.0	1.83	6.00	2.13	7.00	2,500	1,134	14.4	509	I	Tow bar w/ pin ²
1200M, 1200MX & 1600M	10.06	33.0	1.98	6.50	2.59	8.50	8,500	3,856	23.2	821	II	Steerable
2000M, 2000MX & 2400M	10.69	35.0	2.13	7.00	2.59	8.50	11,500	5,227	25.4	898	II	Steerable
3000M	15.55	51.0	2.21	7.25	3.05	10.0	28,000	12,727	78	2,750	III	Kingpin
1600LMA, 2000LMA & 2400LMA	11.89	39.0	2.68	8.80	2.90	9.50	10,500	4,773	32.6	1,152	II	Steerable
3000LMA & 3000LMX	16.76	55.0	2.94	9.66	3.66	12.00	25,000	11,364	68	2,403	IV	Kingpin



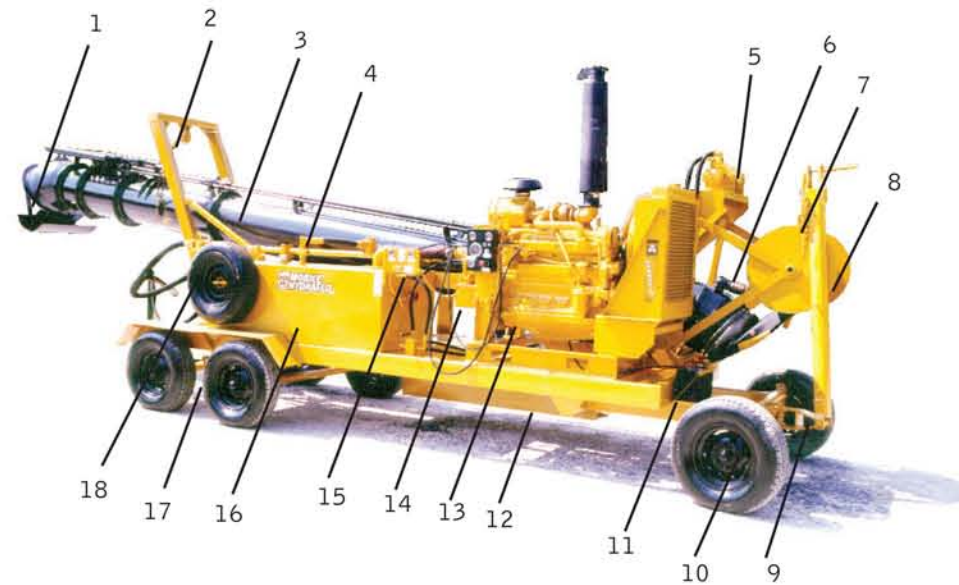
- NOTES:
1. With the exception of the 800M, the first two digits in this number indicate pump propeller diameter in inches.
 2. The tow bar is provided with a standard pin type arrangement.
 3. Second line of dimensions indicate minimum shipping size.
 4. Weights shown are without turntable option. Turntable weight: 5000 lbs. (2272kg).
 5. For Platform pump dimensions, consult factory.

Approximations should not be used for design purposes. Please consult factory. For the physical data on turntable and telescoping options, please consult factory. Each Mobile is equipped with steel discharge pipe and a 45 degree elbow to match pump discharge and flexible discharge hose, respectively.

Mobile Hydraflo™ ... Model 1800M Standard Equipment

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. Flexible hoses are used to connect the pump to the diesel-engine-driven hydraulic system. 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 Hydraflo™ pumps have been used worldwide for agricultural irrigation, storm drainage, dewatering, emergency pumping, and almost any application for moving large volumes of water.

1. Hydraflo™ Water Pump with 45° Intake
2. Crane / Boom / Track Assembly
3. 20 Feet (6.1m) of Discharge Pipe
4. Sight Glass
5. Hydraulic Winch
6. 45° Elbow and Vacuum Breaker
7. 50ft. (15.2m) of Flexible Discharge Hose
8. Discharge Hose Winch (manual)
9. Tow Bar
10. Steerable Front End
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



Watch the video at <http://www.mwicorp.com/mobile-hydraflo-video.php>

For applications where space is limited — like dams, levees, dikes, etc., MWI created the Turntable Mobile Hydraflo™. Our engineers developed this model 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 degree 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 re-connect the flexible hydraulic hoses.



Turtable Mobile Hydraflo™ in action ...



The turntable mechanism in traveling position.

Mobile Lineshaft™ ...



30" Mobile pump bypassing permanent pumps.

MWI's Mobile Lineshaft pump is a complete movable 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. With over 50 years of experience in designing and building mobile pumps, the frame of the Mobile Lineshaft pump has been engineered for smooth operation at all angles. The lineshaft pump can be oil or water lubricated. It can be operated at several angles without being supported at the bottom. For customers looking for an efficient, movable, high volume pump at an affordable cost, MWI's Mobile Lineshaft pump is the answer.

Platform Pumps™ ...



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





MWI's Mobile Pumps are protected by one or more of the following patents and patents pending:

US Patents: #4,138,202, #6,447,260,
#6,520,750, #4,188,788, #6,113,356,
#4,350,476, #4,138,202, #3,907,463,
#4,070,135, #4,797,067, #3,270,677



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