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MACHINE & FAB

WFM-100 BBL
Frac Fluid Mixer Trailer

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(See back for complete details)

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Features:

- Fill, circulate and discharge manifold designed to move fluid to mixer tank, blend and recirculate through two tanks, then displace to treating fluid blender. Versatile manifold system set up to perform variety of different styles of blending.
- Two 50-bbl tanks, 102-in (8.5-ft) dia.
- Two Mission centrifugal pumps, 3 x 2 x 13 inch impeller, mechanical seals

Either Pump 1 or 2 used for:

1) Circulation through either one or both of the two mixing tanks,
2) Discharge to either side of trailer
3) Slurry fill from suction line
4) Either pump can be used as a back-up or in place of the other

- 3 rows of Paddle style agitators in blender vessels designed to create toroidal flow within the blender
- Agitators and centrifugal pumps are run with hydraulic motors
- Coriolis type densometer (optional)
- Work platform designed to allow front end loader equipment to deliver pallets of additive and bulk materials to work platform. Safety rails on sides of work platform double as full open ing gates.
- Powered by Cat 6.6 Tier III or IV engine.
- Control panel-stand for remote control of air actuated valves, engine and hydraulic drives.
- Support and bracing technique used for tanks and work platform is designed to minimize vibration on the work platform.
- Air suspension 50,000-lb tandem (25,000 each).
- Dual tires are 11R22.5.
- 2 Landing gear legs have 62,500-lb. lift capacity
- Straight, non-upset side beams to provide for support for heavier loads during transport or mixing.
- Manifolds latched to trailer framesides. Manifold system is designed for easy cleanup and maintenance.

The versatile mixing-displacement manifold is designed for fluid displacement "from anywhere to anywhere," with either pump. The recirculation lines can be used independent of each other, or optionally used with either or both vessels, and/or simultaneously, as required.

Fluid may be added to the mix tanks by either of two methods:

1) Pumping fluid from another vessel via a 3-inch fill line into the top of the mixing vessel.
2) Pumping, using the on-board 3x2x13 centrifugal pumps fluid via the 3" suction manifold.

The fluid mixture within the mix tank can then be recirculated. The recirculated fluid flows through the mixing-agitation apparatus in the mix vessel. It is then pumped out the bottom of the vessel with a 3x2x13 centrifugal pump and then circulated back up through the top of the mixing tank. The process is continuous, and the recirculating fluid can be mixed with more fluid or additives, which can be added into the vessel via the top fill line or manually added through the manway.

- Work lights are all rectangular, 24-v LED lights. The top work area illuminated with 4 lights. Two lights are mounted on swivel arms over the batch mixers' manways. Two lights are also mounted underneath the work platform to light the area of the centrifugal pumps and the recirculation, fill and discharge manifolds. A work light mounted on the front blender vessel and is directed to the power unit.
- Unit designed for transporting 100-bbl of 8.6 lb/gal fluid
- 2-inch weld-on king pin
- Hazmat placards located at required positions.

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