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Cement Batch Mixer Trailer Assembly

100 bbl Capacity

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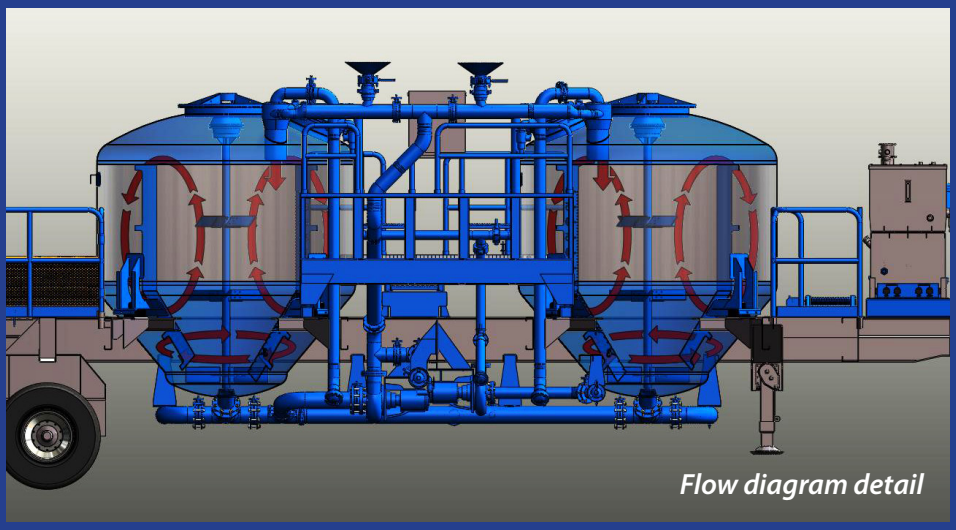

Flow diagram detail

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100 bbl Capacity

Features:

- Fill, circulate and discharge manifold designed for moving fluid and bulk to batch mixer, blending the cement formulation and recirculating through two tanks, and displacing to pumper. Versatile manifold system set up to perform variety of different styles of blending.
- Two 50-bbl tanks, 102-in (8.5-ft) diameter, 113-in 9-ft, 5-in) tall.
- Pump 1: 6 x 5 x 11 centrifugal pump
- Pump 2: 4 x 3 x 13 centrifugal pump

Pump 1 used for:
1) Circulation through either one or both of the two mixing tanks,
2) Discharge
3) Slurry fill

Pump 2 used principally for water fill. Pumps can be used to displace either water or premixed cement during fill operation.

- 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
- Conical prehydrators may be option ally used for additives or bulk mate rial mixing "on the fly" during circula tion to one or both tanks.
- Work platform has 2 tiers to allow front end loader equipment to deliver pallets of additive and bulk materials to work platform. Safety rails on access side of work platform double as full opening gates.
- Optionally use either Cummins or Cat 9 Tier III engine.
- Panel-stand for remote control of air actuated valves, and engine and hy draulic 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)
- Landing gear legs have 50,000-lb. lift capacity.
- Straight, non-upset side beams provide for support for heavier loads during mixing.
- Manifolds are latched to frame sides. Manifold system is designed for easy cleanup and maintenance. The water supply and recirculation lines are in dependent of each other. They can be optionally used with either or both vessels, and/or simultaneously if required.
- The "swirl" type mixing head is the confluence of the lines for 1) slurry recirculation, 2) water fill and 3) dry bulk/additive fill. These mixing heads are located at the top of the cement blending vessels. The water fill lines allow option of flowing to mixing head or flowing directly into the blending vessel.

During recirculation and loading of water and bulk material, the fluid and bulk mixture flows into the vessel through the mixing head. The mixture then flows through the mixing-agitation apparatus in the cement blending vessel. It is then pumped out the bottom of the vessel with a 6x5 centrifugal pump and then circulated back up to the mixing head. The process is continuous, as the recirculated fluid can be mixed with more water and/or bulk material at the swirl-type mixing head.

- Rear platform designed for carrying 4 standard shipping pallets. The platform is useful for transporting sacks of bulk materials, additives or casing cementing equipment such as float equipment, shoes, centralizers, etc.
- Prewash system included.

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