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MACHINE & FAB

Combination Cement Batch Mixer & Bulk Transport Trailer Assembly

50 bbl Blend Capacity,
310-cf Bulk Transport-Storage Capacity



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Features:

- Fill, circulate and discharge manifold designed to move blended cement, water and bulk cement to batch mixer, to blend and recirculate through a 50-bbl tank, then to displace to a pumper. Versatile manifold system set up to perform variety of different styles of blending.
 - 50-bbl cement blending tank, 102-in (8.5-ft) diameter, 9-ft, 5-in tall
 - 310-cf ASME bulk transport-storage vessel
 - APOG compressor pneumatically displaces powdered bulk cement from 310-cf bulk transport-storage tank to blender tank.
 - Pump: 6 x 5 x 11 centrifugal pump is used for:
 - 1) Water fill
 - 2) Circulation of slurry through the mixing tank
 - 3) Premixed slurry fill
 - 4) Discharge of slurry
 - 3 rows of Paddle style agitators in blender vessel designed to create toroidal flow within the blender.
 - The cement mixing agitator, centrifugal pump and air compressor are run with hydraulic motors.
 - Cat 6.6 Tier IV engine used to run the hydraulic pumps for the drive motors.
 - Conical prehydrator may be optionally used for manually loading additives or bulk material into circulation line just before it enters blender, while mixing "on the fly."
 - Middle work platform allows front end loader equipment to deliver pallets of additive and bulk materials to work platform. Safety rail on access side of work platform doubles as full opening gate.
 - Panel-control stand for remote control of air actuated valves, engine, hydraulic drives, and APOG compressor. Valves within reach of operator are manually controlled.
 - Support and bracing technique used for tanks and work platform is designed to minimize vibration on the work platform.
 - Neway air suspension 50,000-lb tandem (25,000 each)
 - 2 Landing gear legs have 62,500-lb capacity.
 - Straight, non-upset side beams to provide for support for heavier loads during mixing.
 - Manifolds latched to inside of frame sides. Manifold is designed for easy cleanup and maintenance.
 - The "swirl" type mixing head is the confluence of the lines for 1) slurry recirculation, 2) water fill and 3) dry bulk cement fill. The mixing head is located at the top of the cement blending vessel. The head allows powdered cement to be hydrated before entering the blender.
- During recirculation and loading of water and bulk material, the fluid and bulk mixture flows into the blending tank 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 6 x 5 x 11 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 bulk material at the swirl-type mixing head.
- The two 3-inch water fill lines go directly into blender top and into the cement mixing head.
 - Rear platform designed for carrying 4 standard shipping pallets. Handrails on both sides double as full opening gates. The platform is useful for transporting sacks of bulk materials, additives or casing cementing equipment such as float equipment, shoes, centralizers, etc.
 - 10-gal Prewash system for applying no-stick soap to vessel before mixing job.
 - Safety gates on access points to work platform, engine work platform and rear carrying platform.
 - Placards on sides of rear platform and middle platform, and front and rear of trailer.



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