

MAKO™ HIGH DENSITY LIME SILO SYSTEMS

Reducing Scaling, Maintenance & Operator Handling of Hydrated Lime Feed



A History of Optimizing Chemical Feed

Over thirty years of chemical feed system and silo design experience, and in-house fabrication expertise has refined our approach for optimizing performance, quality, reliability, system layout and ease of installation.

VeloDyne's MAKO™ High Density Lime (HDL) systems are used in a variety of municipal and industrial water and wastewater treatment processes. Our technology reduces scaling in pipes and maintenance of equipment common with standard lime slurry systems.

MAKO™ HDL Process Benefits:

- Reduces cost of lime supply: on-site preparation of high-density slurry concentrations ranging from 32-38%, eliminates the need for costly delivery of lime in slurry form
- HDL Slurry remains in suspension, drastically reducing scaling & build-up in pipe and equipment
- HDL reduces operator maintenance and equipment downtime and prolongs equipment life



A company driven to deliver the very best Polymer Blending, Chemical Feed, and Bulk Solids Handling Systems, fueled by constantly asking, "What If?"

MAKO™

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The VeloDyne MAKO™ series two-piece, high-density lime (HDL) system is a state-of-the-art, modular technology that optimizes performance, quality and reliability while minimizing installation and commissioning time.

The MAKO™ Modular HDL System Benefits:

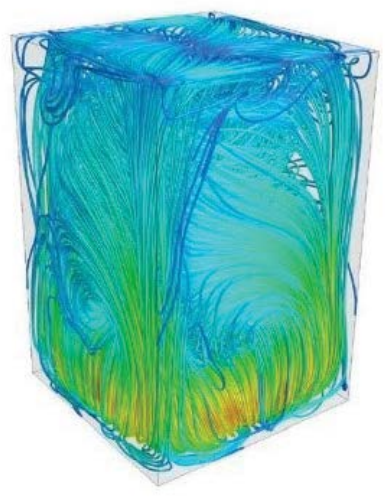
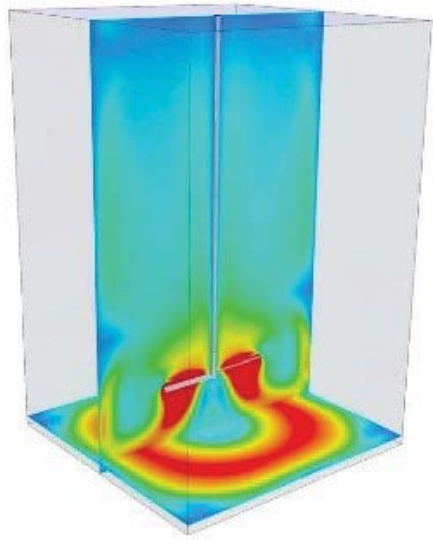
- Unlike single-piece silo designs, the makedown equipment, plumbing, electrical wiring and controls are fully factory installed, tested and shipped to the job site as a complete, finished and tested unit - no equipment is removed for shipping or is required to be reinstalled
- Our factory-built design allows for optimal equipment layout, running piping and conduit underneath the floor grating system, along walls and overhead, resulting in minimal operator obstructions
- The equipment room is shipped complete and upright as opposed to on its side, avoiding common damage during shipping
- After setting and anchoring the lower section equipment room to the concrete pad, there are five easy steps to completing the system installation:
 - Install the bin vent and level sensors on the storage section using factory installed conduit and air lines
 - Install the ladder and hand-rail system
 - Erect, set, and bolt together the storage section to the equipment section & interconnect the flexible adapter to the feed equipment
 - Electrically interconnect the storage section to the lower section through factory installed junction boxes
 - Interconnecting power, water, drain, and slurry feed piping



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VeloDyne's MAKO™ HDL Slurry System utilizes state-of-the-art CFD modeling to design and optimize the mixing of HDL slurries.



VeloDyne's MAKO™ HDL system reduces the cost of lime, drastically minimizes scaling and lime build-up in pipes and equipment, reduces maintenance and our two-piece modular design reduces installation time and cost.



VeloDyne's MAKO™ HDL Slurry System utilizing weight and density control and monitoring.



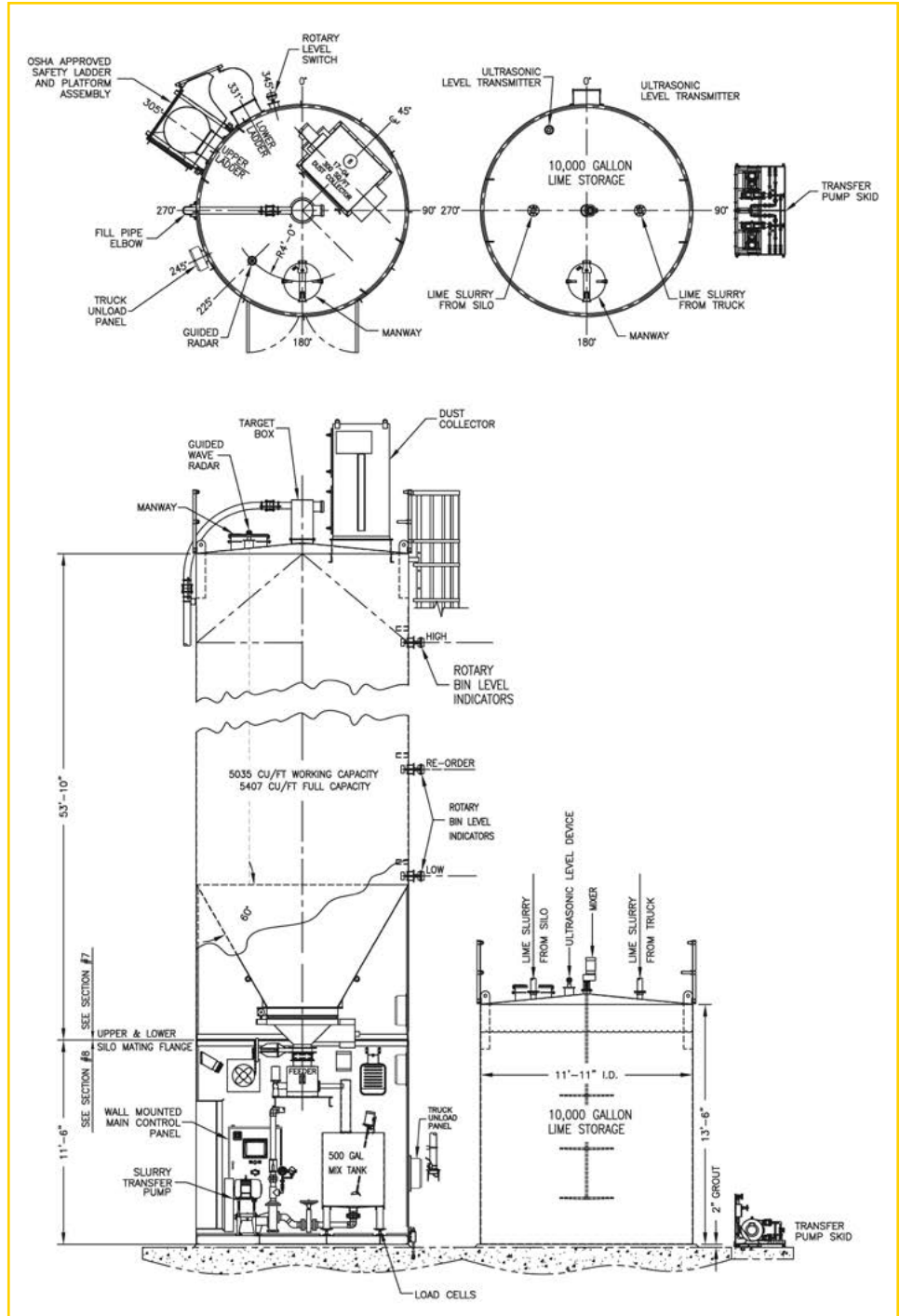
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MAKO™ HDL System

Features and Options:

- MAKOTM HDL slurry make-down system is a proven design using state-of-the-art Computational Fluid Dynamics (CFD) to optimize slurry mixing
- Local control system with programmable logic controller (PLC) and color touch screen
- Weight and density monitoring and control
- Single or modular two-piece silo designs.
- Factory authorized testing for customer approval (two-piece systems only)
- 10', 12' and 14' diameters available
- Pneumatic silo fill pipe assembly with NEMA 4X operator station
- Bin-Vent dust collection system (roof mounted)
- OSHA approved caged ladder and handrail for roof access.
- Silo level devices. Continuous and/or point level.
- Bin Activator and Vibrators
- Barracuda™ volumetric screw feeder with wash-down, inverter duty motor
- Storage/feed tank with mixer, and level devices.
- Slurry feed pumps
- Equipment room ventilation fans, heaters, and lighting & optional insulation
- Optional silo load cell system for inventory monitoring.



VeloDyneSystems.com



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