Mako™ High Density Lime Silo Systems

Reducing Scaling, Maintenance & Operator Handling of Hydrated Lime Feed

Over thirty years of chemicall 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.

Key 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***

General

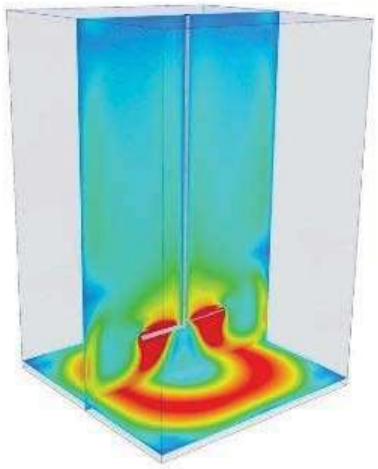
The VeloDyne MAKOT™ series two-piece, high-density lime (HDL) system is a state-of-the-art, modular technology that optimizes performance, quality and reliability while minimizing installation and commissioning time.

The MAKO™ Modular HDL System Benefits:

- Unlike single-piece siło 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

Features

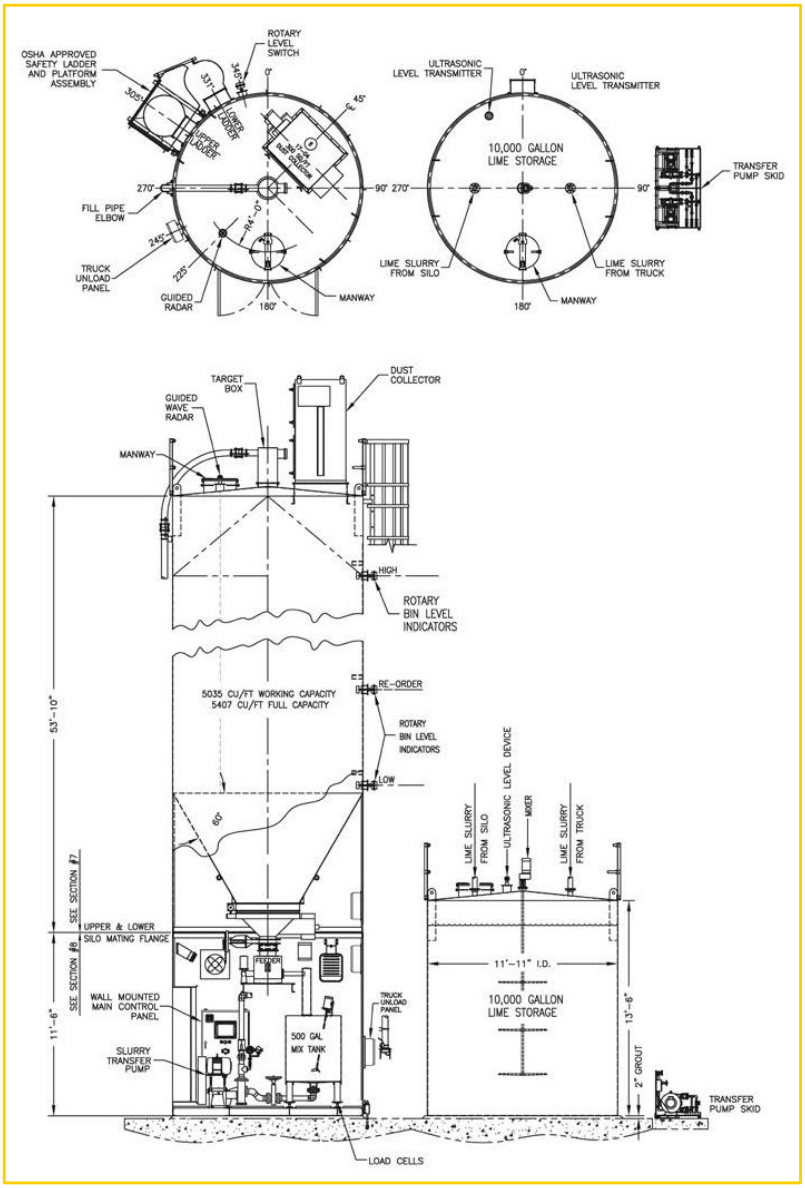
VeloDyne's MAKO™ HDL Slurry System utilizes state-of-the-art CFD modeling to design and optimize the mixing of HDL slurries,



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 controll and monitoring.

- MAKOT™ 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 BarracudaTM 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.



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