

The Right Equipment For The Job

Solidiquid™ - Powder & Liquid Delivery System

**Improve output by pre-blending and conveying a slurry.
Save by harnessing the power of motive liquid.**

- Conveys without the need for additional mechanical conveyors, uses existing liquid delivery equipment.
- Small footprint
- Meters powders into the motive liquid stream to maintain proper solid/liquid ratios and to minimize clumping.
- Automatically and precisely delivers dry bulk ingredients as a pre-blended slurry to your mix tank, blender or other process equipment.
- Dramatically reduces resistance and mix times.
- Handles a wide-range of dry materials.

Bag frames are capable of unloading the full range of FIBC types and may be fork-truck loaded or include an integral hoist and trolley.

Bulk bags permit longer, uninterrupted production runs for increased efficiency.

Control dry bulk material flow as needed to maintain desired ratios or concentrations using Hapman's PosiPortion™ feeder.

Reduce dusting with the vacuum generated by the venturi effect, which pulls airborne dust into the motive liquid stream.

Various instrumentation options can be implemented to monitor pressure, flow, etc., as needed to monitor and control slurry quality.



Surge volume allows system to continue operating during bag change. Level sensor in hopper warns operator of the need to change the bag.

Eductor creates a vacuum in wetting hopper that pulls solids into suspension in the motive liquid stream. Readily soluble materials mix intimately.

Vortex inside wetting hopper organizes dry materials to maximize throughput.



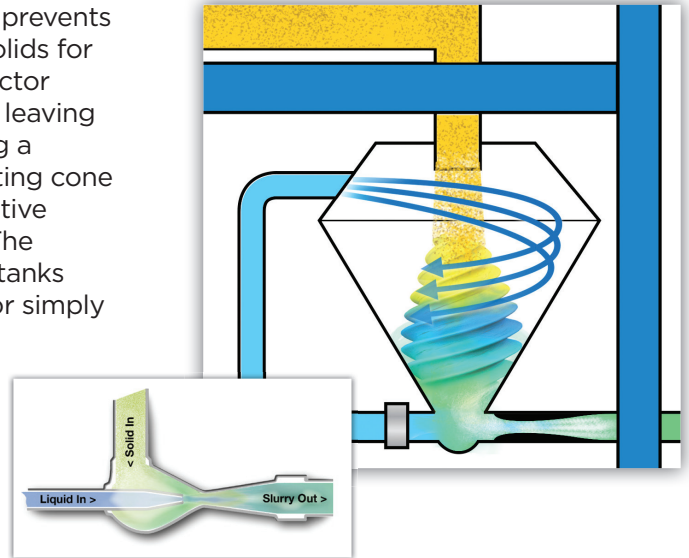
We're here to make a difference

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hapman.com

HAPMAN
Ideas that move
a global company

Solidliquid eductor operation

Wash water enters the wetting cone and creates a vortex which prevents dry solids from accumulating on the cone walls and organizes solids for optimum flow. Meanwhile, the main liquid stream enters the eductor through a converging nozzle to create a high-velocity jet. Liquid leaving the converging nozzle expands in the discharge horn, generating a vacuum behind it. This vacuum draws the material from the wetting cone through the solids inlet and into the eductor. There, both the motive liquid and the solid from the wetting cone mix to form a slurry. The eductor discharges the slurry to downstream holding or mixing tanks where other ingredients may be added, mixed completely and/or simply stored for further use.



Options

BULK BAG UNLOADER OPTIONS:

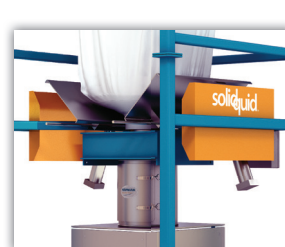
- Choice of hoist and trolley or fork-truck-style frames
- Bag agitators
- Load cells
- Integral dust collection
- Fast-acting refill gates

POSIPORTION™ FEEDER OPTIONS:

- Five chassis sizes, each capable of accepting a range of screws
- Various hopper sizes
- Gated nozzles, toe nozzles or straight nozzles of various lengths

OTHER OPTIONS/CONSIDERATIONS:

- Self-contained dust control system eliminates need for expensive stand-alone dust collectors
- LumpMaster® lump breaker gets rid of agglomerations and lumps before solids enter the motive liquid.
- Full instrumentation available to monitor pressure and flow and automatically sense low bag volume levels.
- PLC controls optimize the efficiency and management of your equipment.



Keep bulk solids flowing smoothly with Hapman's optional Bulk Bag Unloader agitation paddles.



See More Equipment At hapman.com

Hapman offers a complete line of material handling equipment that easily integrates into existing systems, including:

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|--------------------------|----------------------------------|
| • Tubular Drag Conveyors | • Bulk Bag Unloaders |
| • Drag Conveyors | • Helix Flexible Screw Conveyors |
| • Dust Collectors | • Bag Compactors |
| • Feeders | • Lump Breakers |
| • Vacuum Conveyors | • And More |

We offer a true performance guarantee ensuring your Hapman equipment achieves the specific results it was designed and manufactured to deliver. And if you need technical support, call us. We are available 24/7.



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