

VSS Emultech®

Custom Designed Emulsion Plants



VSS Emultech® offers a wide range of custom-designed solutions for batch, continuous, or semi-continuous emulsion production. Plants are available in both stationary or mobile configurations. Customers receive individualized solutions - from plant layout to design to construction - based on their specific business requirements.

The VSS Emultech asphalt (bitumen) emulsion plant is comprised of several components, engineered so that the desired emulsion is produced precisely to formulation. Each plant properly controls the various combinations of asphalt, water and chemicals to produce the specific emulsion required. Emulsifier solution, additives, polymers and asphalts are metered into a specifically-designed manifold before being injected into the colloid mill.

We will work with you to assess your complete needs - including plant layout, design and construction. We'll help you evaluate your local market and create an individualized solution.

An available flow control option greatly simplifies operation by automatically adjusting the flow of water and chemicals. The formulation is controlled precisely based on the material flows, regardless of temperature fluctuation.

Our technology transfer and laboratory services offer cutting-edge emulsion design for any job. Our expertise covers the full range of asphalt, binders and emulsifiers, and allows us to create quality emulsions with your raw materials.

We can help with your project from beginning to end, or advise and assist in any selected area. VSS Emultech has the operations and application skills to commission and assist in the marketing and application of your products.

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VSS Emultech's Stationary & Mobile Asphalt Emulsion Plants are capable of producing up to 68,000 liters/hour. Fully equipped for producing both Anionic and Cationic emulsions, with a modifier injection system suitable for latex or a variety of other additives. The plant package is fully plumbed, with all flow meters, check valves and temperature gauges installed in the system. All plumbing is flanged for immediate adaptability to your tank farm. The plant package is completely wired and ready for immediate installation.

CONTAINER SKID-MOUNTED

MILL PACKAGES

• Model 50	7.3 tonnes/hour	8 tons/hour
• Model 75	14.4 tonnes/hour	16 tons/hour
• Model 100	22.5 tonnes/hour	25 tons/hour
• Model 125	36.0 tonnes/hour	40 tons/hour
• Model 200	68.0 tonnes/hour	75 tons/hour

COLLOID MILLS

- Stainless steel rotor and stator
- Adjustable air-gap
- All models jacketed for product heating
- Very high shear

BITUMEN SYSTEM

- Pump capacity matched to mill production
- Pump includes relief valve and jacketing for use with hot oil or steam heating
- Complete system valving for in-line circulation
- Flanged pipe ends

EMULSIFIER SYSTEM

- Flow meter (liters or gallons)
- Stainless steel pump with water flushed seals
- Automatic throttle valve maintains desired mix ratio
- Optional flow control version adds PLC to automatically maintain the mix ratio

CONFIGURATIONS

- Skid-mounted
- 20' container
- 40' container with optional laboratory or office inside
- Mobile on trailer

OPTIONAL LATEX SYSTEM

- Modifier dosage line
- Adjustable speed progressive cavity pump
- Flow meter (liters or gallons)

OPTIONAL SOLVENT SYSTEM

- Solvent dosage line
- Adjustable speed pump
- Flow meter (liters or gallons)

CONTROL PANEL

- Frame-mounted, fully enclosed
- All controls for mill, asphalt pump, water pump, modifier pump, and instruments
- Large format meters display all relevant flow and temperatures
- Mill motor amp meter
- Mill motor soft-start

ELECTRICAL SYSTEM

- 460V 3-phase, 60 Hz
- 380V 3-phase, 50 Hz
- Or designed to suit needs



U.S. and International Patents Pending
VSS reserves the right to make changes in specifications at any time as part of our continuing program of product improvement.
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P.O. Box 178 13024 Lake Rd
Hickman, CA 95323 USA
1-800-474-2357 209-874-2357
Fax 209-874-1174
www.slurry.com sales@slurry.com

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