

# VSS Emultech®

## Custom Designed Emulsion Plants



**Introducing the new direct-drive models EP-27S and EP-70S. This series of Emulsion Plants are smaller, lighter and with a few less features than the full-size line of plants. Quality emulsions, made simple.**

**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 elevate your local market and create an individualized solution.

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.

**THE RIGHT SOLUTIONS, RIGHT NOW**  
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## Custom Designed Emulsion Plants

VSS Emultech's Stationary & Mobile Asphalt Emulsion Plants are capable of producing up to 18,000 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 circulation valves, 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 27 | 8 tonnes/hour  | 8.8 tons/hour |
| • Model 70 | 18 tonnes/hour | 20 tons/hour  |

### COLLOID MILLS

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

### BITUMEN SYSTEM

- Pump capacity matched to mill production
- Pump includes relief valve
- Pump and piping electric heat-jacketed
- Complete system valving for in-line circulation
- Flanged pipe ends

### EMULSIFIER SYSTEM

- Centrifugal Multi-stage Stainless steel pump with water flushed seals
- Pump speed controlled from the operator panel to maintain emulsion temperature.

### 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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