By utilizing a mill that applies a high-shearing effect on cement makes the VortiMix a “true” colloidal mixer. The combination of energy, mixing tool RPM, and the tight tolerance of its cast housing reduces cement particles into a highly fine substance. The VortiMix delivers a mix stability unmatched by traditional mixing methods and has proven to reduce cement consumption by 10%. The mixing vessel doubles as the weighing system for ingredients and when incorporated with an automatic washing system, wash cycle water used within the next batch. This design and function leaves no waste following the production cycle.

## Mixer Unit

- Hot-Dipped Galvanized Mixing Vessel
- Cast Colloidal Mill Housing
  - Wear Resistant Material
  - Split Casting – Easy Maintenance
- Mechanically Sealed Mixing Shaft
- Integrated Automatic High-Pressure Self-Cleaning Wash System
- Applications
  - Bi-Component Grout
  - Lightweight Cellular Concrete
  - Jet Grouting
  - Deep Soil Mixing

❖ **Capable of mixing down to a 0.5:1 – Water Cement Ratio (by weight)**



***Model: VM2000 Pictured***



***Colloidal Mill***



***VortiMix Flow Diagram***

## TECHNICAL DATA

| MODEL | BATCH SIZE | MAXIMUM CAPACITY | COLLOIDAL MILLS |
|---|---|---|---|
| VM500 | 500 l (132 gal) | 7.5 $m^3$/h (9.8 $yd^3$/h) | One x 22 kW (30 hp) |
| VM1000 | 1000 l (264 gal) | 15 $m^3$/h (19.6 $yd^3$/h) | One x 30 kW (40 hp) |
| VM2000 | 2000 l (528 gal) | 30 $m^3$/h (39.2 $yd^3$/h) | Two x 30 kW (40 hp) |