

# SOLID

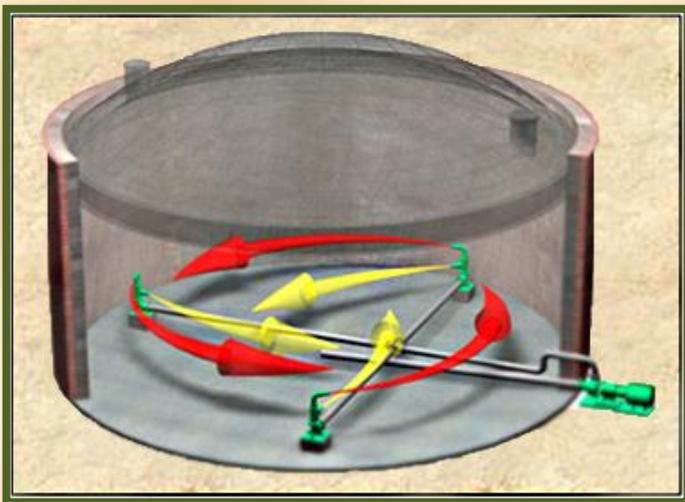
The latest in Solid Pumping & Mixing  
Technology from Monitor Pumps & Systems

THE ORIGINAL CHOPPER PUMP

 Vaughan



## Digester Mixing Systems



### What is Rotamix®?

Vaughan's Rotamix® system is today's most cost effective means of mechanical hydraulic mixing, consisting of an engineered arrangement of floor mounted nozzles fed by a Vaughan® chopper pump. Using custom engineering software, each application is analyzed and sized by Vaughan in order to achieve the desired mixing effect. The Rotamix system may be applied in circular, rectangular, oval tanks and basins and other unique process configurations such as egg-shaped digesters, CSO tunnels and pump stations.

### Why Choose Rotamix®:

- Over 1000 successful installations worldwide
- Vaughan's experience with quality mixing and solids handling products for over 50 years
- **Performance Guaranteed**
- **10 year full nozzle warranty**
- Verifiable with CFD modeling
- Passes chemical dispersion tracing (Lithium, Aluminium Chloride), and other performance tests including temperature profiling analysis and total solids concentration profiling

## Rotamix System Advantages

### Energy

- Ability to intermittently mix tanks after long periods of storage, offering power savings
- Allows intermittent operation of conventional process systems, further reducing energy costs
- FOG Systems enhance methane production for cogeneration
- Reduced energy alternatives (using variable frequency drives) can provide additional energy savings

### Operation

- Complete system conditions solids for better digestion
- Efficient mixing optimizes chemical consumption in sludge dewatering applications
- Operates without liquid level dependency
- Meets or exceeds high rate digester designs

### Maintenance

- No scheduled nozzle assembly maintenance required
- No rotating equipment within the process
- Vaughan Chopper pump with flushless seal, eliminates costly seal water stations
- Reduces confined space entry into tanks for maintenance

### Capital Costs

- Ability to mix multiple tanks using only one pump
- Ability to fill, mix and transfer using only one pump
- No access walkways, platforms or hoists required
- Complete installed Rotamix system typically costs less than equipment alone for other types of mixing systems
- Potentially reduces aeration requirements
- Easily retrofits into existing tanks
- Ability to work with flat floor design reduces construction costs
- Optional assemblies to control scum and/or foaming



## FOG (Fats, Oils & Grease) Enhance Digestion System

“**JET FUEL FOR DIGESTERS**” is how it is described! Using the Rotamix System, food waste from restaurants (fats, oils grease & waste produce) is received and fed to anaerobic digesters. Increased methane produced and subsequent cogeneration can satisfy the electrical needs of the plant without having to purchase outside power. The added benefit? Waste that would normally end up in the landfill is utilized to produce power!

### Learn more:

For more information visit us at <http://www.chopperpumps.com> or [www.monitorpumps.co.za](http://www.monitorpumps.co.za)  
**Rotamix in Action**

