



PSM Smart Mixing System

Mix Almost Anything with Highest Flexibility

KEY BENEFITS

- Capable of Mixing High Solids and Viscous Substrates
- Significant Energy Savings Compared to Other Mixing Systems
- Avoid Floating Layers and Prevent Solids Settling
- Suitable for Existing and New tanks Applications
- Reduced Downtime and Maintenance Costs
- Enhanced Biogas Production
- Enables Co-digestion of Multiple Feedstocks
- Access Mixer while Tank Remains in Service



ANAERGIA SOLUTION

Anaergia's PSM Smart mixing system is a breakthrough high-solids mixing solution which consists of advanced Permanent Synchronous Motor (PSM) mixers and a patented service box.

Unparalleled operational flexibility: Anaergia's Intelligent mixing system offers full control by allowing operators to handle a range of operating scenarios by moving the mixer placement, changing direction and speed of rotation. Mixers can be easily accessed for maintenance and inspection without shutting down digesters.

Unique and Robust Design: Real-time, automatic mixer speed control avoids cavitation, abrasion and repels fibers.

High Solids Mixers: PSM mixers are efficient and reliable. They are used in feedstock buffer tanks and digesters handling up to 15% solids. With a propeller design that reduces ragging, a direct-drive motor that provides high efficiency, and intelligent controls that maintain constant torque. The PSM mixers minimize energy consumption, wear & tear, and operating costs.

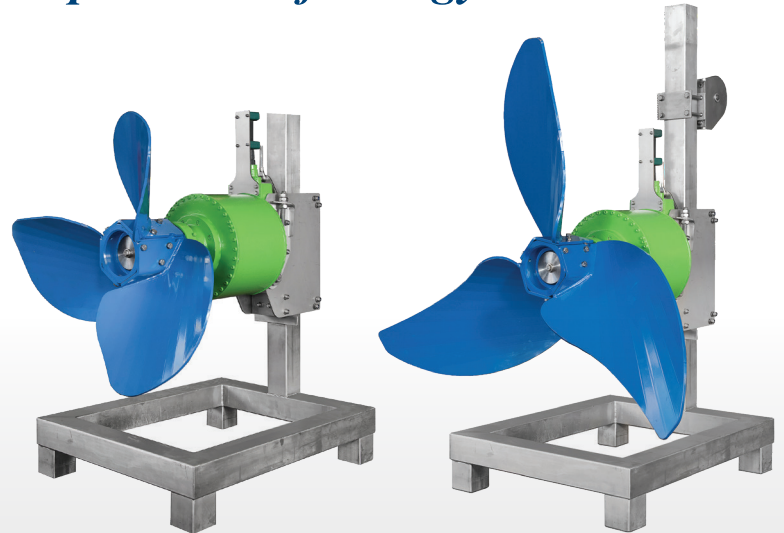
Service Boxes: Allow easy adjustment of mixer height and direction to break up floating layers and resuspend grit while offering quick access for inspection and maintenance while the digester remains in service.



APPLICATIONS

- Anaerobic Digestion (AD) of Municipal Wastewater Sludge
 - Greenfield Facilities
 - Retrofit of Existing ADs
 - Mesophilic & Thermophilic AD
 - Suitable for Different AD Tank Configurations
- Feedstock reception tanks
- Co-Digestion of wastewater sludge with external organic feedstocks
- Food Waste / SSO AD
- Municipal Solid Waste (MSW) Organic Fraction
- Agri-food including manure storage, anaerobic digestion, and digestate holding tanks
- Industrial Wastewater AD

Highest mixing force per kWh of energy consumed



PSM 940

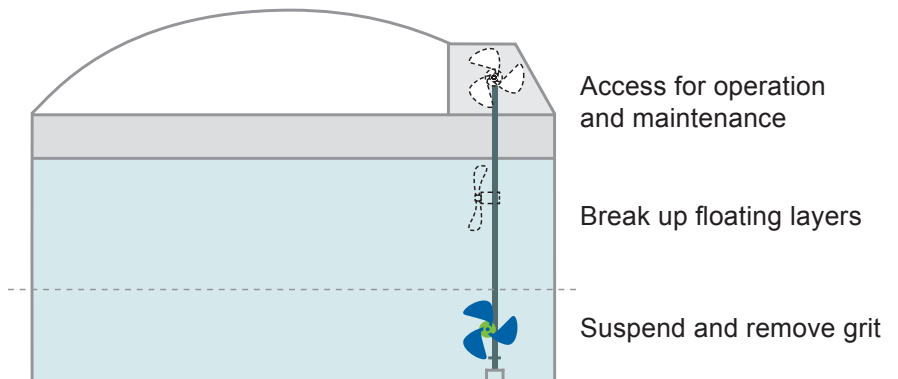
Flow 25,100 gpm | 95 m³/min

PSM 1500

Flow 40,400 gpm | 153 m³/min



**Engineered for Highest Flexibility
and Operational Reliability**



Anaergia

Breaking Barriers to Sustainability

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