



Suspension test bench

Our suspension test bench realistically replicates tank geometry, internal components, and media properties. This enables precise replication and simulation of flow behavior under various operating conditions.

With high-speed cameras and advanced analysis methods (e.g., image correlation and particle tracking/velocimetry), solids movement, turbulence, and concentration are made visible and measurable. Different configurations – propeller type, size, position, or speed – are systematically tested, and their impact on sedimentation, homogeneity, and energy demand is objectively evaluated.

The result: reliable data as the basis and benchmark for our CFD simulations.

CFD (Computational Fluid Dynamics)

In-house R&D is at the core of our work. In our laboratory, we determine the flow properties of typical biogas media and compile them in a slurry catalog - the reliable basis for every CFD study.

Validation is crucial and takes place in two steps: first with magnetic-inductive flow measurements, PIV (particle image velocimetry) analysis in the lab, then with torsion bars under real conditions in biogas plants. This ensures that the shear, power consumption, and solids distribution in the model correspond to reality.

The result: precise planning and reliable predictions of mixing performance - even before project implementation.



Inspired by Nature. Engineered for Performance.



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REMI PTM ENVIRO MIXING SOLUTIONS

A strong alliance for India’s biogas market: The establishment of the joint venture in Mumbai brings together REMI - a well-known, reliable partner for industrial mixing technology - with Germany's technology leader in mixing technology for biogas plants.

German engineering and decades of know-how meet local manufacturing and strong networks - delivering advanced solutions tailored to the Indian market. Local production ensures short delivery times, while a dedicated after-sales team provides fast on-site support.

The result: robust technology, measurable added value, and reliable success.



TORRENT

As a specialist in biogas applications, we combine many years of experience with cutting-edge technology - resulting in a submersible mixer for the toughest conditions.

Maximum efficiency and long service life in one product. A shielded tandem mechanical seal ensures long-term tightness, while the powerful motor handles high temperatures as well as fiber-rich and viscous media.

For propellers exposed to extreme wear, TORRENT uses the high-performance plastic Physinit® – significantly more durable and efficient than metallic or glass fiber alternatives, ensuring consistent thrust over time.

TORRENT - powerful, reliable, efficient.

RIPTIDE

Our inclined shaft mixer sets standards in process reliability, efficiency, and durability. The Physinit® propeller ensures maximum thrust with minimal energy use and remains resistant to abrasion and corrosion – for long-lasting performance and extended maintenance intervals.

Thanks to the integrated shut-off device, the mechanical seal can be replaced without emptying the tank. A protected swivel mechanism allows precise flow alignment to preventg floating layers, sediments, and dead zones.

With gearbox, motor, and seal components manufactured in-house, we ensure quality, traceability, and fast spare parts availability. The result: maximum uptime, low operating costs, and reliable performance throughout the plant’s lifecycle.



TEMPEST

Our concept - simple and clear: sensitive components stay outside.

In heavy-duty systems, only robust, maintenance-free components operate inside the tank - ensuring many years of trouble-free performance. The Physinit® propeller delivers maximum efficiency and precise mixing, with a service life far superior to metallic alternatives.

Our patented sealing system with shut-off device allows easy replacement of the mechanical seal - without opening or emptying the tank. Motor and gearbox are manufactured in-house to the highest quality standards.

The result: maximum reliability, minimum downtime - side-entry mixing redefined.



MAELSTROM

Our top-entry mixer is individually engineered for each project - tailored to medium, tank geometry, and operating objectives. The result: greater process stability, energy efficiency, and availability.

Design and performance are validated through CFD analyses and laboratory tests, ensuring reliable operation even with viscous or fiber-rich substrates - at consistently low operating costs.

With all key components manufactured in-house, we guarantee quality, traceability, and fast spare parts availability. Precisely designed, solidly built, and highly reliable.

