



Efficient Agitation Solutions for Biogas Plants, Waste Water Treatment and Industrial Process Engineering

Peter Starz, Managing Partner streisal GmbH

- ~ 5 Mio Euro Turnover
- 20 Employees
- 25 Years Experience
- 50 Percent Export
- 100 Percent Stirring Technology



- Development, design, manufacturing and global marketing of innovative agitators and mixing systems for biogas plants, wastewater technology and industrial applications
- Core themes of our research and development work are energy efficiency, technical performance and product reliability

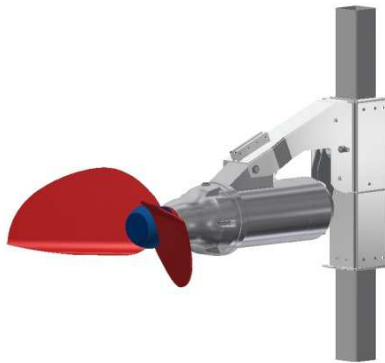


- Manageable size of the company ensures flexible reaction to specific customer requirements and quick decisions

- Extensive range of products – selection of the right solution for any particular application / mixing task



- Based on our many years of experience and our knowledge gained from numerous mixing experiments in our own fluid mechanical laboratory we are also able to supply custom solutions for unusual mixing tasks
- Our services include expert advice, professional servicing and maintenance, spare parts supply and repair



Submersible mixers with reduction gear TSR

Power range	1,5 up to 18,5 kW (IE2 and IE3 motors)
Circulation power	up to 7.200 m ³ /h
Propeller diameter	500 - 1.015 mm (2 or 3 blade propellers)
Propeller speed	192 rpm / 340 rpm



Low-speed submersible mixers with reduction gear ATP/BTP

Power range	1,5 up to 11 kW (IE2 and IE3 motors)
Circulation power	up to 15.310 m ³ /h
Propeller diameter	1.400 - 2.650 mm
Propeller speed	22 rpm - 59 rpm



Energy saving agitator BIOBULL®

Low-speed 38 rpm

Circulation power up to 22.600 m³/h

Lowest energy consumption

Very high serviceability and reliability (proven since > 20 years)



Adjustable agitator BIOSUBTRATOR®

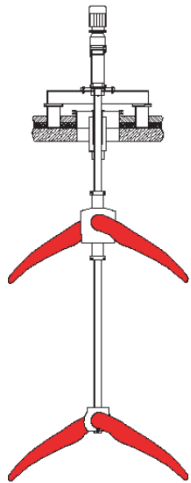
Low-speed 59 rpm

Propeller diameter 1.500 mm

Adjustable stirring performance, low energy consumption

Robust design

Easy to install (digester wall or concrete ceiling)



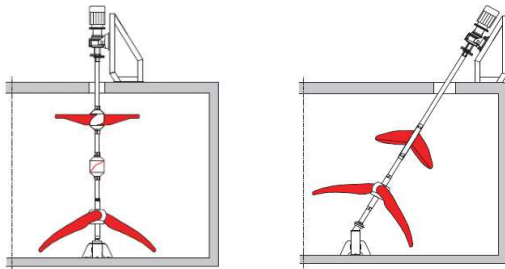
Vertical agitators

Power range 1,5 up to 30 kW (IE2 and IE3 motors)

Circulation power up to 25.000 m³/h

Propeller diameter up to 2.800 mm

Shaft cross section solid up to 100 mm, profile up to 150x150 mm



MAISCHEBULL® / HYDROBULL® agitator systems

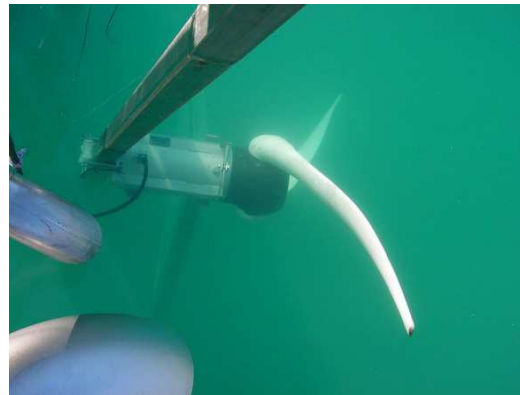
Low speed stirring solutions for mixing pits and hydrolysis tanks

Extensive range of different propellers, drive power and installation options

Suitable for all kind of substrates and direct filling via front-loader

High mix-in rates

- streisal agitators are being operated in over 800 biogas plants worldwide
- > 500 agitators in waste water treatment and industrial applications
- 25 years of experience in a large variety of applications
- Business partnerships with well-known EPC contractors, planners, engineering offices in Europe and overseas (USA, Japan, China, etc.)



- Establish direct contacts to EPC contractors, planners, engineering offices and operators of biogas applications in Thailand
- Find sales agents / distributors for Thailand (and surrounding countries)

 **We want to become your partner of choice and establish ourselves as the main supplier for stirring technology in Thailand**

 **Use our know-how to optimise your plant!**

Thank you for your attention !



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1988	Company foundation Specialization in submersible mixers for agriculture and water treatment technology
1990	All-stainless-steel submersible TRV agitator - this is the first of its kind in the world. Explosion-proof submersible mixer with ATEX approval
1992	Low-speed submersible mixer ATP from 0,75 bis 5,5 kW with propeller diameter up to 2800 mm, all-stainless-steel
1994	BIOBULL® with large propeller diameter used in a biogas plant

2000	Municipal digester agitator
2005	Vertical agitators for biogas plants
2006	Horizontal agitator for biogas plants BIOSUBSTRATOR®
2010	Agitator and solid feeding system in one machine BULLDOS® Powerful agitator system for mixing pits and hydrolysis tanks HYDROBULL®
2013	New series of medium- and low speed submersible mixers



Impressions

