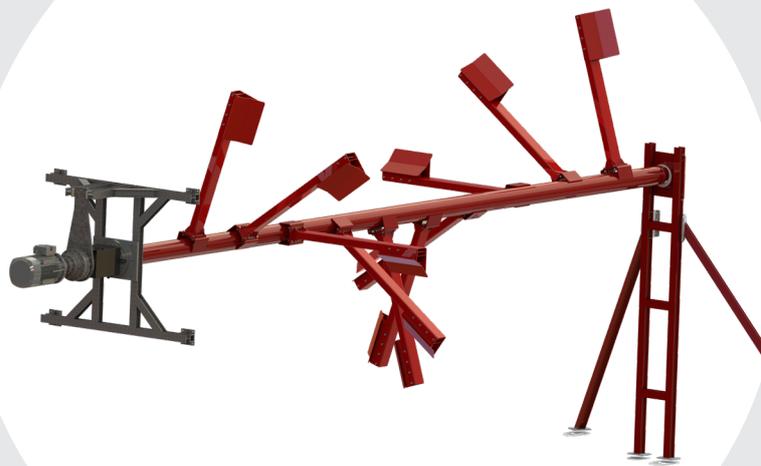


Long shaft agitator

BIG, BIGGER, LONG SHAFT AGITATOR

Humanity strives for expansion and continuous improvement. This trend does not even stop for the biogas industry. Tanks with a diameter of more than 30m are no longer a rarity. In order to meet these requirements, we have also included the long-shaft agitator in our standard range.

The special features now at a glance:



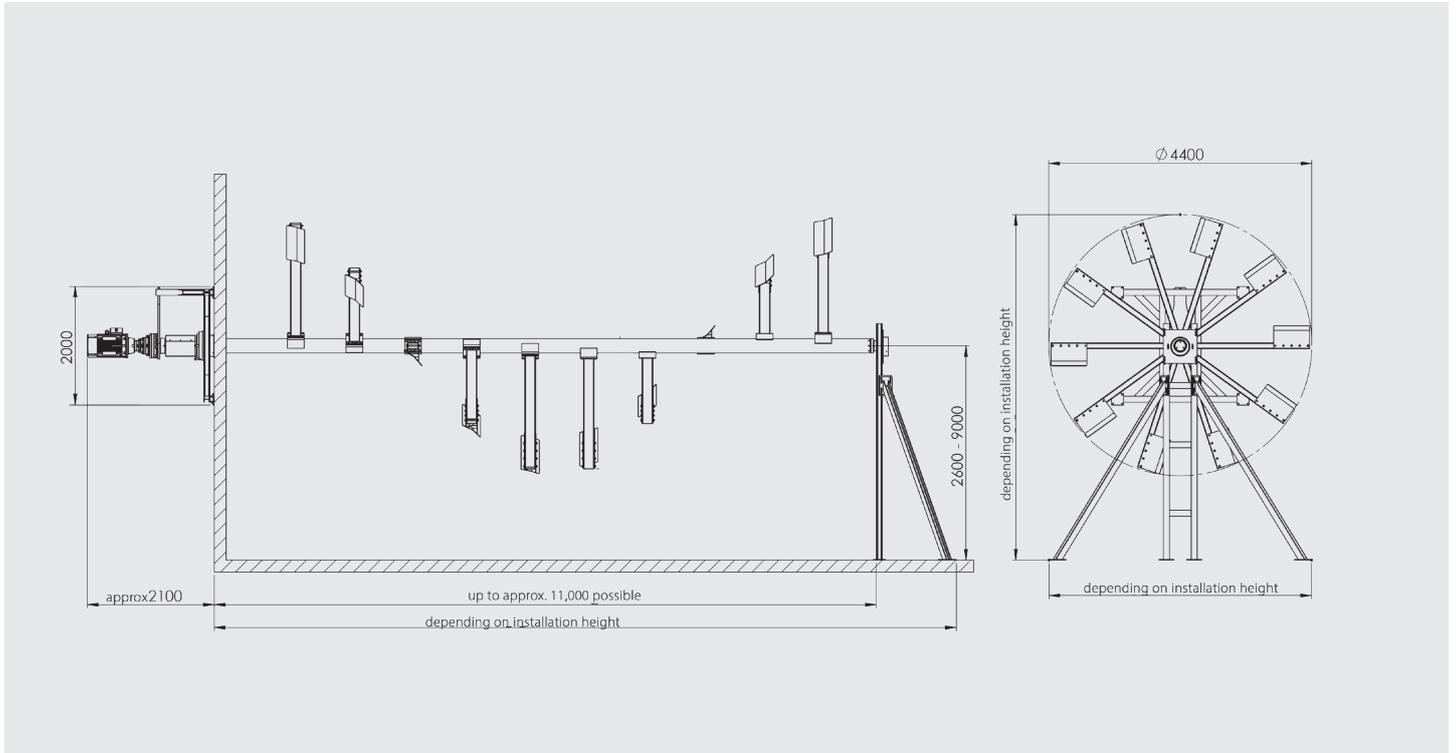
Advantages

- For large containers from approx. 30 meters
- No loss of properties due to size
- Individually designable
 - with Spiralo® paddle
 - with Schwanko paddle
 - with Hydromixer paddle
- Storage in the container consists of special highly wear-resistant and maintenance-free bearing plastic
- All relevant components are exchangeable without having to empty the vessel or having to replace the agitator shaft
- Active principle is ideal for breaking up floating layers
- Active principle supports the agitating of sinking layers
- The degassing of the substrate is facilitated
- System and components need very low maintenance

Fields of application

- For constant or fluctuating levels (depending on paddle selection)
- Breaking of floating layers
- Agitation of setting layers
- High viscosity & low viscosity media (depending on paddle selection)
- Suitable for fermenters, secondary fermenters and mixing containers in steel or concrete design

Technical data



Motor power:	22 kW, (30 kW)	Container fill level:	Constant and fluctuating fill level possible (depending on paddle selection)
Torque:	21,100 Nm	Substrate:	up to +55 °C and pH value between 6 and 8
Max. thrust on the paddle:	depending on paddle selection	Installation height:	from 2600 mm to 9,000 mm
Displacement volume per hour:	depending on paddle selection	Material:	Structural steel, structural steel + special coating or V4A possible
Speed of rotation:	6 – 10 rpm	Inner bearing:	Highly wear-resistant and maintenance-free bearing plastic
Peripheral speed:	approx. 138 m/min	Outer bearing:	Spherical roller bearings for absorbing the axial and radial forces
Agitation diameter:	4400 mm (special diameter possible)	Sealing:	Mechanical seal (modularly expandable)
Total paddle area:	depending on paddle selection		
Gear unit:	3-stage planetary gear unit		
Shaft length in the container:	Standard: 8 m + 11 m, special lengths over 11 m possible		
Weight:	depending on paddle selection		

Various adjustments to the agitator can be realized and customer-specific special solutions are no problem for us!

Talk to us!

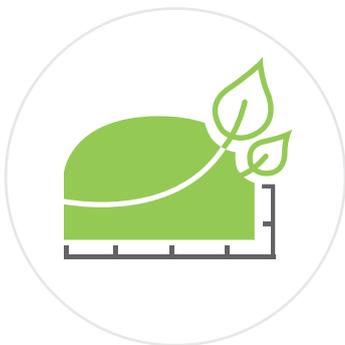
What characterises our agitators

PADDLE GEOMETRIES

The long shaft agitator can be equipped with different paddles. Below you see the paddle geometries of the possible options.



Features / Description	Spiralo®	Schwanko	Hydromixer
Filling level	constant & fluctuating, ideally 100 mm below the highest paddle position	constant & fluctuating, ideally 100 mm below the highest paddle position	constant & slightly fluctuating, min. 1.600 mm above the main shaft, ideally 50 -100mm below the highest paddle position (at d = 4.2m)
Number of paddles/blades	4	8	4
Total paddle area (m ²)	3,7	1,9	1,9
Circumferential speed (m/min)	125	132	132
max. thrust on paddle (kN)	7,25/10,55	6,9/10	6,9/10
Displacement volume (m ³ /h)	31.800	12.300	13.180



EFFICIENCY EXCELLENCE

Consume less, save more – this is our incentive.



BUILT-IN FUTURE

Consistent production in component design allows for an ideal extensibility of our agitators.



5 GOOD REASONS

For more than 20 years Steverding has been standing for agitators made in Germany with an unbeatable price/performance ratio.



OUR PROGRAM AT A GLANCE

In the table of the fold-out page, some technical key data are graphically compared. Our technicians will be pleased to think through together with you in a personal meeting which model is the most suitable for your plant. Due to the modular design, serial models can be individually configured.



Spiralo®
our highly innovative
product



Schwanko
the variable all-rounder



Hydromixer
the champion



Langwellenrührwerk
big, bigger, long shaft
agitators



Vertikale RW
the powerful compact
class

**STEVERDING
RÜHRWERKSTECHNIK**



STEVERDING RÜHRWERKSTECHNIK GmbH

Gerhart-Hauptmann-Straße 41
D-48703 Stadthorn

Tel. +49 (0) 2563 / 208 88-20

Fax +49 (0) 2563 / 208 88-920

info@ruehrwerkstechnik-steverding.de

www.ruehrwerkstechnik-steverding.de