

THE VARIABLE ALL-ROUNDER

The requirements with regard to the optimum production process may vary considerably. If you prepare for specific features with a fixed dimensioning and commit themselves to a narrow spectrum due to their technology selection. However, if you still need a high degree of flexibility, you will want to focus on variably adjustable components when designing your plant. Schwanko offers maximum flexibility without real compromise. The special features of our all-rounder at a glance:

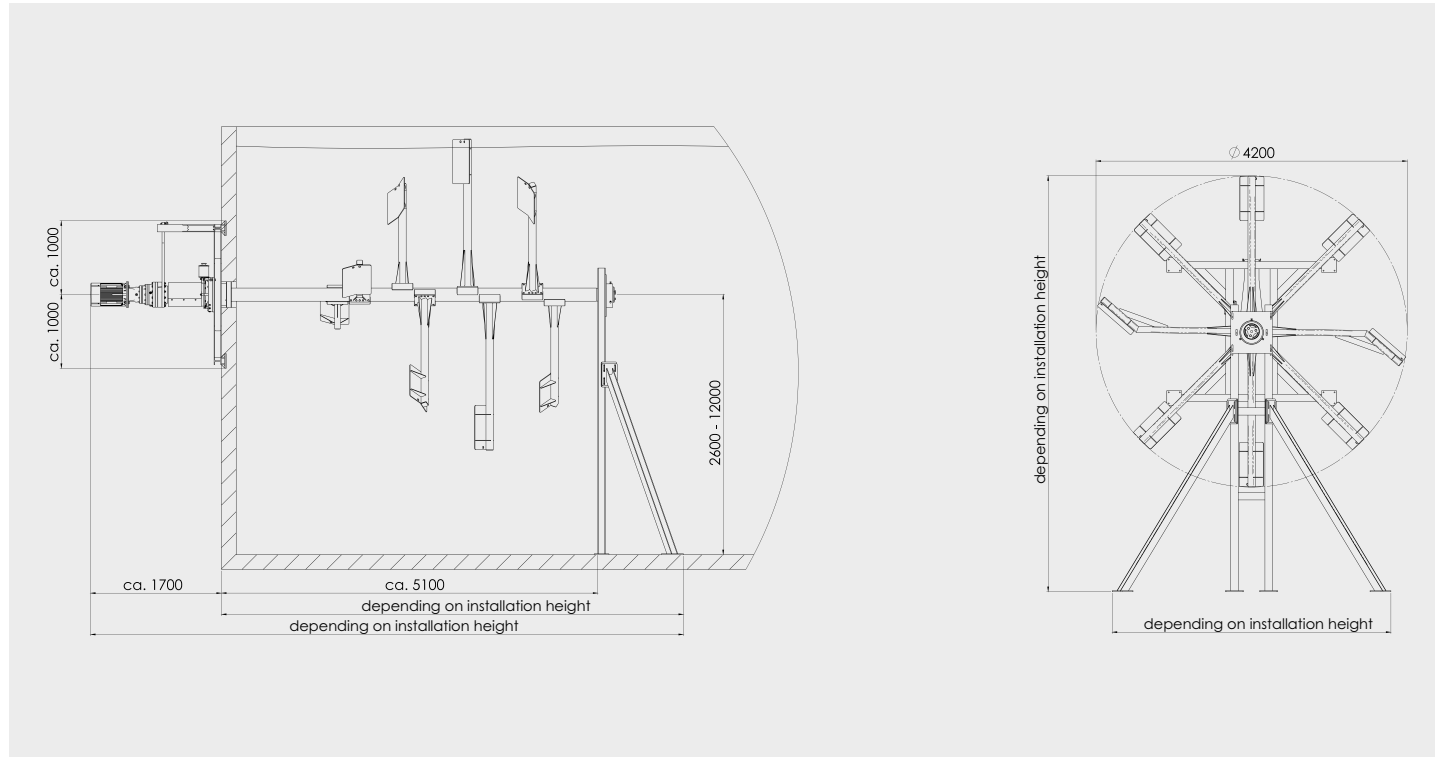


Advantages

- For containers with high-viscosity input materials and a constant or fluctuating filling level throughout the whole agitation diameter
- Special paddle design provides for smooth immersion, full thrust, and efficient mixing substrate
- Gentle treatment of the bacteria population in order to attain an optimum gas yield
- A seal monitoring system enables a reduction of the filling level below the shaft, also in the gas-tight area during agitation
- Inner bearing for dry pump operation
- Container bearing consisting of special, extremely wear-resistant and maintenance-free bearing plastics
- All relevant components can be replaced without having to drain the container or replace the agitator shaft
- The functional principle is ideal for breaking floating layers
- The agitator principle supports the agitation of setting layers
- The process makes degassing of the substrate easier
- Requires very low-maintenance

Fields of application

- Breaking of floating layers
- Agitation of setting layers
- High-viscosity & low-viscosity media (dry matter content up to 15 %)
- Suitable for fermenters, secondary digesters, and fermentation residue storages in steel or concrete design



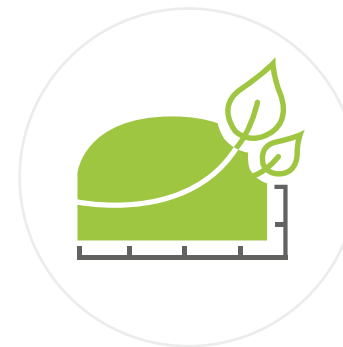
Motor power: 15 kW, 22 kW
Torque: 14,500 Nm, 21,100 Nm
Max. thrust at the paddle: 6.9 kN, 10 kN
Displacement volume per hour: 12,300 m³/h
Speed: 10 1/min
Circumferential speed: 132 m/min
Agitation diameter: 4,200 mm (special diameter possible)
Total paddle surface: 1.9 m²
Gearbox: 3-stage planetary gearbox
Shaft length in the container: Approx. 5,000 mm
Weight: Approx. 2200 kg (depending on the version)

Container filling level: Constant and fluctuating filling level possible (ideally 100 mm below the highest paddle position)
Substrate: Up to +55°C and pH value between 6 and 8
Installation height: From 2,600 mm to 12,000 mm
Material: Structural steel, structural steel+special coating or V4A possible
Inner bearing: Highly wear-resistant and maintenance-free bearing plastics
Outer bearing: Flange bearing for absorbing the axial and radial forces
Seal: Mechanical seal (modularly extensible)

Comparison of our products

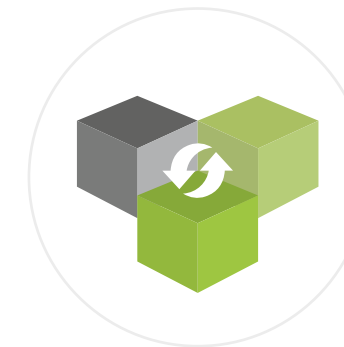
Features / description	Spiralo®	Schwanko	Hydromixer	Vertical agitator	Plug-flow agitator
Agitation efficiency	+++	++	++	++	+++
High-viscosity media	++	+++	++	+++	+++
Low-viscosity media	+++	+++	++	++	+
Fluctuating filling level	+++	+++	+	+++	++
Displacement volume	+++	++	++	+	○
Torque	++ (+)* ²	++ (+)* ²	++ (+)* ²	++ (+)* ³	+++
Ideal for dry matter content * ¹	Up to 11%	Up to 15%	Up to 13%	Up to 15%	Up to 25%
Availability	Stock article	Stock article	Stock article	Per order at short notice	Per order at short notice
Suitable for:	▼	▼	▼	▼	▼
Fermenters	+++	+++	+++	+++	+++
Secondary fermenters	+++	+++	++	+	○
Fermented substrate stores	+++	+++	○	○	○

*¹ Depending on the substrate composition and cutting length
 *² On request 22 KW motor
 *³ 1 – 45 KW



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.

Various adaptations on the agitator can be implemented and customized special solutions are not a problem for us!

Feel free to contact us!



OUR RANGE OF PRODUCTS 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



Vertical agitators

The powerful compact class



Plug-flow agitators

For extreme solids content

**STEVERDING
RÜHRWERKSTECHNIK**



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