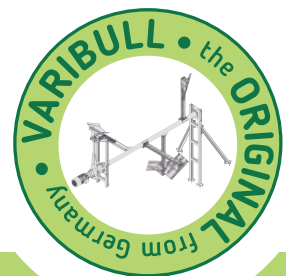


*From practical experience...
...to practical solutions!*



Varibull Paddle Agitator





Varibull Paddle Agitator

The Varibull paddle agitator – an ideal and thousandfold proven, very reliable agitator for digesters, post-digesters as well as digestate storage tanks. The low-maintenance drive unit is attached to the outside of the pit and is therefore accessible at all times. A maintenance-free mechanical seal ensures durable tightness at the wall penetration of the drive shaft. The agitator shaft inside the pit is equipped with a maintenance-free and durable plain bearing.

Varibull is used exclusively for stirring viscous feedstocks such as slurry, manure and renewable raw materials (RRM) or similar in round reinforced concrete tanks (digesters). The four inclined paddles ensure optimum mixing in the shortest possible time – over a large vertical range. This results in ideal and energy-saving blending of the renewable raw materials, slurry or manure in the digester.

Varibull is suitable for operation in substrates with a dry-matter content of up to 12 %, a pH value of 6-8 and a temperature of up to +55 °C. The Varibull drive system is designed for a maximum ambient temperature of +40 °C.

The original agitator developed by us has become the most widely used agitator among the slow-speed long-shaft agitators in biogas plants. It was designed and built in accordance with the highest safety requirements and after careful selection of the harmonised standards to be observed and other technical specifications. It thus meets the current state of the art and guarantees a maximum level of safety.

Varibull has been designed according to the provisions of the 2006/42/EC Machinery Directive. Varibull is optionally also available in explosion-proof design.

The Varibull paddle agitator has many advantages

- ▶ Ideally suitable for the anaerobic digestion of renewable raw materials, in particular also grass silage and manure as well as other substrates
- ▶ Economical energy consumption thanks to large-surface stirring paddles
- ▶ Thorough mixing across the different substrate layers while being gentle on the bacteria
- ▶ Reliable operation also with high dry-matter content and long-fibred substrates
- ▶ Maintenance-free sealing of the wall
- ▶ Maintenance-free and durable plain bearing inside the pit
- ▶ No height adjustment inside the digester
- ▶ Copes also with fluctuating filling levels
- ▶ No additional mechanical parts, such as chains, ropes or other suspension gear
- ▶ Simply install, switch on and stir – “That’s all!”

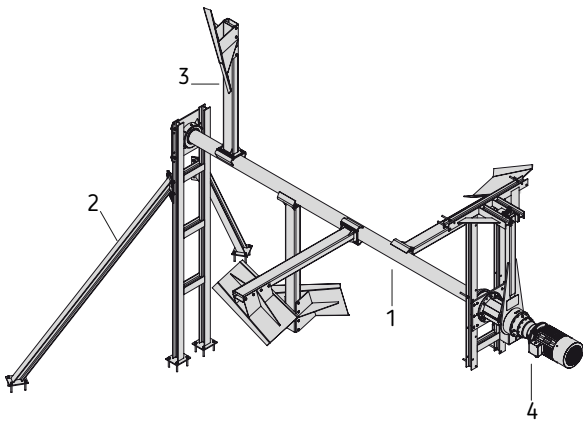


Technical Data

Drive	Electric motor with three-stage planetary gearbox
Power rating	15 kW
Speed of agitator shaft	10 rpm
Electrical connection	400 - 690 V AC, 50 Hz
Weight	Agitator approx. 1,900 kg

OPTIONS

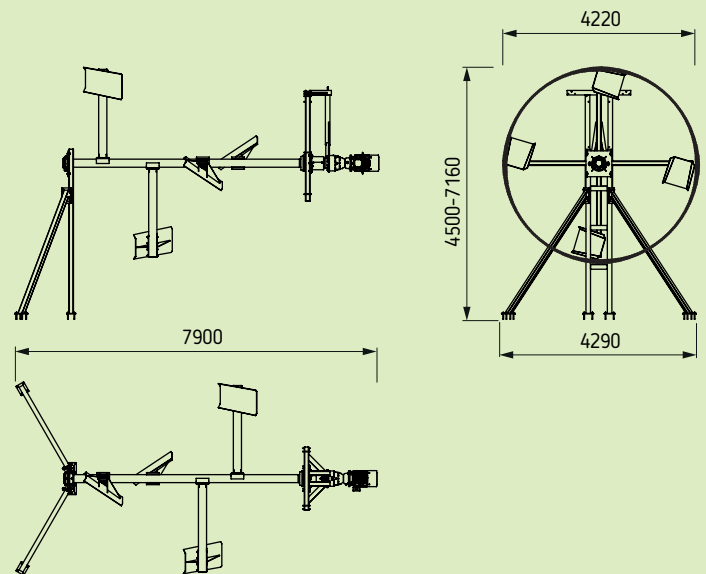
- ▶ Varibull in explosion-proof design
- ▶ Sound protection hood for the drive assembly of Varibull
- ▶ Control unit for Varibull



Schematic view of Varibull

1. Agitator shaft
2. Inner support
3. Blade with arm
4. Drive unit

Dimensions





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