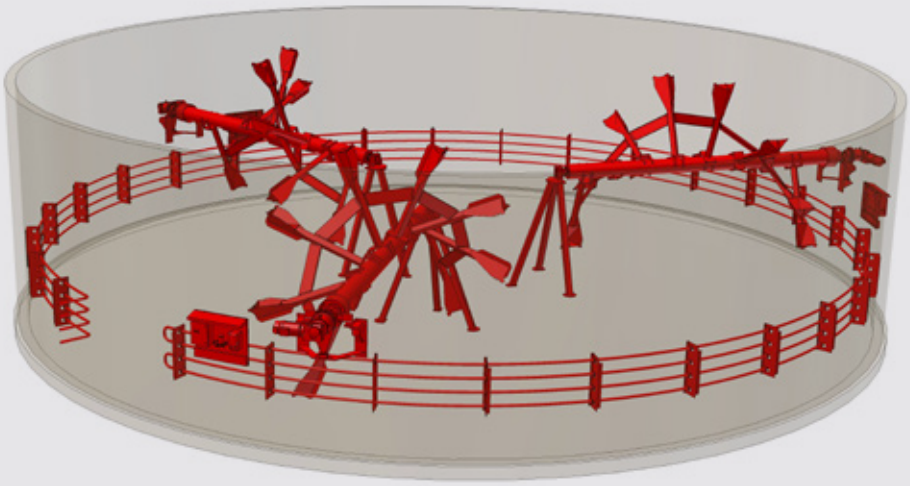
TNV THÖNI WET DIGESTION

TNV PADDLE AGITATOR

EXCITING TECHNOLOGY FROM THÖNI

- Higher biogas yields
- Higher mixing performance
- Low energy consumption



TNV THÖNI PADDLE AGITATOR

Anybody who looks at the cycle of nature every day will learn from the experience! That is why Thöni designs well-thought out systems for biogas plants – powerful and sustainable.

In TNV Thöni Wet Digestion Semi Dry plants, renewable energy is obtained from organic waste, packaged food waste and biogenic waste, e.g. from agricultural production. In this process, the TNV Thöni Paddle Agitator fulfils an elementary function: it creates optimal conditions for the work of the microorganisms.

However, stirring and mixing alone would not be enough.

The TNV Thöni Paddle Agitator is distinguished by its sophisticated stirring geometry. The proven design and robust construction create the conditions for moving a large stirring volume – so efficiently that the substrate is optimally mixed together and no floating and sedimentation layers arise.

The paddles can stir a mixture of input materials with a high level of dry matter content without problem and in addition – in comparison with propeller agitators – significantly reduce electrical consumption. This efficient agitation performance keeps input quantities low and at the same time provides a high gas yield.

The Thöni paddle agitator turns very slowly (2-6 rpm) – an automatic central lubrication unit and a frequency transformer ensure optimal operation and high plant availability.

TECHNOLOGICAL ADVANTAGES
Sophisticated paddle agitator geometry ensures optimal mixing of digester content
Robust and durable construction
Maintenance-free componentsin the digester
Available for digesters of 18-36 mdiameter and 6-8 m of height
Ready-to-use in scope of supply, incl. controls – **everything from one source**

EFFECT
Maximum utilization of the digester volume thanks to high dry matter content in the digester
Efficient mixing performance
Prevents sedimentaition layers
No formation of floating layers

COST-EFFECTIVENESS
High flexibility in the use of organic input materials with a high level of dry matter content
Optimal operation and high plant availability
Higher biogas yield/gas extraction **Substrate saving** (Reduction of substrate requirement by up to 10%)
Minimum power consumption of the plant due to low speed of the agitators
Low maintenance costs