



## TTV – High solids anaerobic digestion from Thöni

# TTV Paddle-shaft

### THIS IS WHERE THE ACTION IS

Perfect homogenization of substrates containing a high level of impurities

Maximum range of input materials

Outstanding mixing technology

No sedimentation layers in the digester

Sturdiest high-performance paddle-shaft available on the market



## High performance anaerobic digestion TTV Paddle-shaft

The TTV plug flow digester is ideal for 'dry' organic waste, even if it contains a high level of impurities. Key components such as the accessible, heated, digester floor and the robust and powerful paddle-shaft are proven and patented: unique to Thöni.

Thöni paddle-shafts are characterised by their ability to handle difficult materials and to carry out the stable and continuous digestion of variable substrates.

The dimensions of the paddles and shaft guarantee high mixing efficiency and a virtually unlimited service life: even under the highest loads. This is achieved by the special shape of the paddle head which is made of highly wear-resistant steel. The special combination of paddle design and configuration prevents sedimentation by up to 100% and continuously transports potential sediment to the digester outlet while simultaneously counteracting the formation of floating layers.

Overall, the digester needs minimal maintenance in the longterm – even if input material contains significant contaminants.

The shaft mechanism is driven by a planetary gearbox which efficiently powers the shaft at a gentle 0,3 rpm.

The TTV paddle-shaft has been developed by Thöni and sets new standards in the field of anaerobic plug flow digestion.

### Technical features

Maintenance-free paddle-shaft  
External access to the shaft sealing at any fill level

Paddle-shaft with boost compensation (without any additional support inside the digester)

Mixing in the digester even at a reduced fill-level

Unaffected by high percentages of impurities: efficient control of sedimentation layers

Special combination of paddle design and configuration guarantees optimum material transition along the digester

Standard sizes  
(nominal digester capacity)  
1,400 m<sup>3</sup>, 1,650 m<sup>3</sup>, 1,850 m<sup>3</sup>,  
1,950 m<sup>3</sup>, 2,100 m<sup>3</sup>, 2,250 m<sup>3</sup>  
Other sizes on request

### Technical data - Paddles

Patented paddle geometry =  
Self-cleaning bulldozer shovel blade

Special HARDOX reinforcement/  
armour of the shovel blades  
countering risk of high abrasion.

Durable design at permanent  
alternating loads

**thöni**®

www.thoeni.com

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