



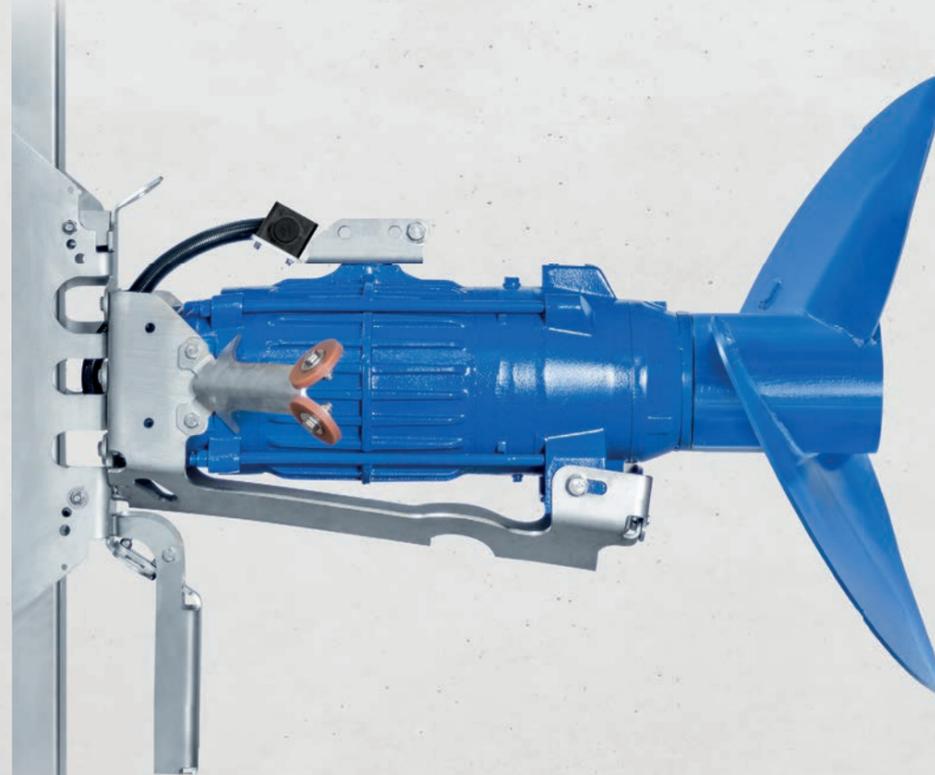
## Submersible mixers

### Installation set EGR for GTWS / GTWSB / GTWSI-EX

The Eisele installation sets EGR come in stainless steel as a standard and can be combined with all submersible mixers.

A service opening is optionally available for the EGR 3 (for tanks with foil roofs). Loss of gas due to laborious opening of the complete roof is avoided. Due to the built-in sight glass, the fermentation processes in the tank can be checked at any time with a brief glance.

*Illustration: installation sets EGR 1 and 2 with GTWS 204*



Agriculture



Biogas

## Submersible mixers

### GTWS / GTWF / GTWFT

#### for tanks

**With their flow optimised two-vane wide-blade propellers, the water pressure-tight submersible mixers from Eisele guarantee maximum efficiency and cost-effectiveness.**

The numerous accessory components enables a variety of installation and deployment options. With compact design, the GTWS programme covers a wide range of applications.

 **2.2 kW to 22.0 kW**

#### Benefits

- Extensive accessory range
- Approved up to an immersion depth of 40 m
- Substrate temperature of up to 65°C
- Overloadable motors manufactured by Eisele
- Solid cast iron housing with efficient heat dissipation
- Large performance range
- Long maintenance intervals
- High effectiveness
- Explosion protection zones 1 & 2 (GTWSI-EX)
- Subsidies from the BAFA programme available (GTWSB 206-E)

Type	Description	Devices	Tank material	Features
EGR 1	Installation set for open tanks	all	Concrete, steel, wood	Floor support, guide rail, fixing components, boom with winch, wire or plastic cable, cable clamps
EGR 2	Installation set for tanks with concrete ceiling	all	Concrete	Floor support, guide rail, fixing components, boom with winch, wire or plastic cable, cable clamps
EGR 3	Gastight installation set for tanks with foil roof	all GTWSB, all GTWSI-EX	Concrete, steel	Floor support, guide rail, actuation from the side, protective guard (optional) Wall-mounted holder with winch, cable bushing, cable clamps, service opening (optional)
EGR 4	Gastight installation set for tanks with concrete ceiling	all	Concrete	Floor support, guide rail, service cover, mounting frame, immersion cup, holder with winch, cable bushing, cable clamps
EGR 5	Installation set with chain for open and closed tanks	all	Concrete	Floor support, guide rail, fixing components, boom with all-purpose transmission, holder for chain locking device, chain, cable clamps
EGR 6	Installation set for service purposes	all	Concrete	Boom for service purposes, holder for boom, extension

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WA10066

# Submersible mixers GTWS, GTWF, GTWFT for tanks

## Features

- Three-phase motor with integrated thermal contacts
- Sealing sensor in oil chamber, indicator lamp on switch / control system
- Stainless steel carriage
- Propeller in different variants
- 8 m electric cable (optionally 10 m, 14 m, 18 m)

## Accessories

- Various installation sets
- Various switches / control systems
- Aeration injector



Open lagoon



Closed lagoon



Slalom system



Tank with foil roof



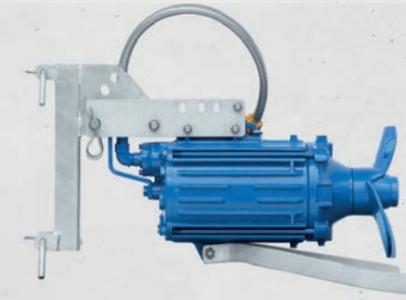
Tank with concrete ceiling



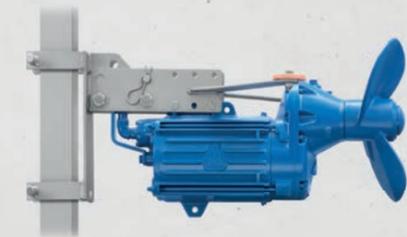
Open tank



Steel tank



GTWS 360 | 540



GTWS 36G | GTWS 54G



GTWS 1540 | 204



GTWS 740 | 1040

Type	Propeller Ø	PROPELLER DATA		MOTOR DATA			
		Speed	Thrust	Rated power	Speed	Rated current	
GTWS	mm	rpm	N	kW	hp	rpm	A
360	290	945	450	2.2	3.0	945	5.3
540	250	1,426	700	4.9	5.5	1,426	7.8
36G	410	400	550	2.2	3.0	945	5.3
54G	370	600	800	4.0	5.5	1,426	7.8
740	460	470	1,100	5.5	7.5	1,450	10.9
1040	490	470	1,500	7.5	10.0	1,450	15.2
1540	710	240	2,500	11.0	15.0	1,460	21.2
204	820	240	3,500	15.0	20.0	1,460	28.9
GTWF	mm	rpm	N	kW	hp	rpm	A
360	290	945	450	2.2	3.0	945	5.3
54G	370	600	800	4.0	5.5	1,426	7.8
1040	490	470	1500	7.5	10.0	1,450	15.2
GTWFT	mm	rpm	N	kW	hp	rpm	A
1040	490	470	1500	7.5	10.0	1,450	15.2

Performance data are related to water. Specifications and illustrations are non-binding.



Tank with concrete ceiling



GTWF 54G

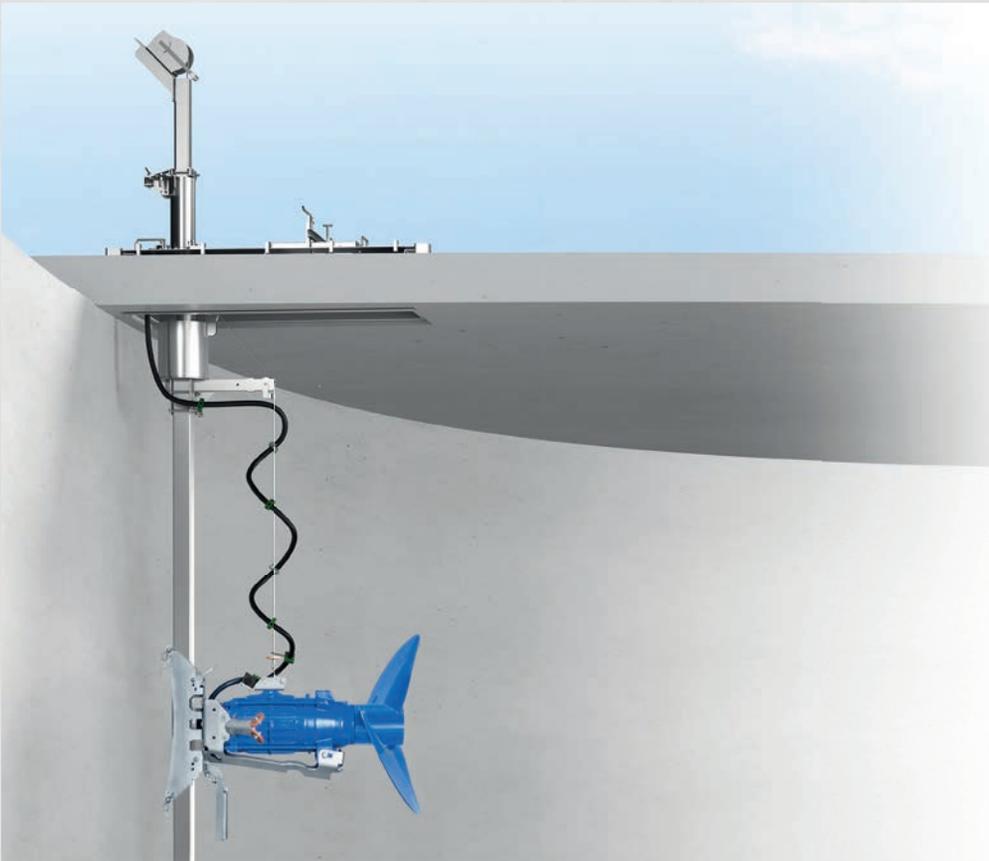


GTWFT 1040



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*Illustration EGR 4 (service cover) with GTWSB 204*



Agriculture



Biogas

## Submersible mixers GTWSB

### for tanks

The submersible mixers GTWSB impressively demonstrate their strength in continuous operation in biogas plants. Even viscous media are powerfully agitated by the dynamic two-wing wide-blade propeller, ensuring thorough homogeneous mixing of the substrate.

Service cover:

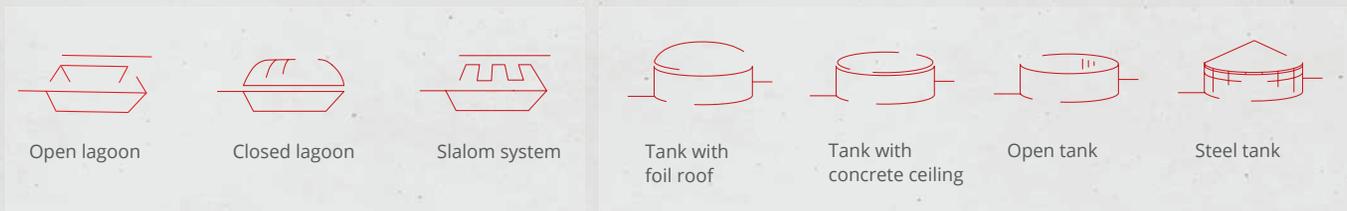


7.5 kW to 22.0 kW

The service cover is used on tanks with a concrete ceiling. This means the mixer can be maintained simply and easily from the outside.

# Submersible mixers GTWSB

## for tanks



### Features

- Three-phase motor with integrated thermal contacts
- Sealing sensor in oil chamber, indicator lamp on switch, control system
- Stainless steel carriage, optionally with locking pin or bolt guide
- Stainless steel propeller
- Electric cable with protective hose
- GTWSB 206-E with drive that complies with energy efficiency class IE5 (BAFA funding available)

### Accessories

- Various installation sets
- Various switches / control systems

## Technical Data

Type	PROPELLER DATA			MOTOR DATA			
	Propeller Ø	Speed	Thrust	Rated power		Speed	Rated current
GTWSB	mm	rpm	N	kW	hp	rpm	A
1040	490	470	1,500	7.5	10.0	1,450	15.2
1540	710	240	2,500	11.0	15.0	1,460	21.2
204	820	240	3,500	15.0	20.0	1,460	28.9
206-E	820	240	3,500	15.0	20.0	1,460	26.2
254	920	210	4,200	18.5	25.0	1,474	38.0
304	1,000	210	5,100	22.0	30.0	1,468	43.0

Performance data are related to water. Specifications and illustrations are non-binding.



**EISELE**

Knowledge in motion



Illustration EGR 3 with GTWSI-EX 204

## Submersible mixers GTWSI-EX

for tanks

With the safety systems on the GTWSI-EX mixer, Eisele guarantees protection from explosions in the vicinity of flammable gases in heightened danger zones such as fermenters and tanks with varying filling levels.

 7.5 kW to 15.0 kW



Agriculture



Biogas



Biogas Ex



Illustration EGR 3  
(with service opening, external  
view of tank)

# Submersible mixers GTWSI-EX

for tanks



## Features

- Approved for explosion protection zones 1 & 2
- Three-phase motor with integrated thermal contacts
- Sealing sensor in oil chamber, indicator lamp on switch, control system
- Stainless steel carriage, optionally with locking pin or bolt guide
- Stainless steel propeller
- Electric cable with protective hose

## Accessories

- Various installation sets
- Various switches / control systems

## Technical Data

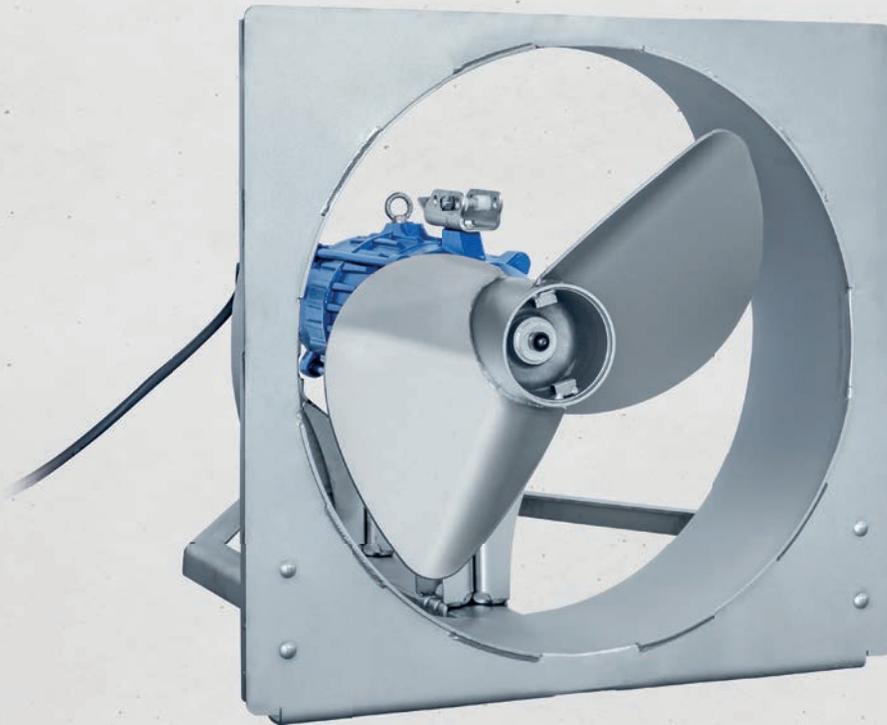
Type	PROPELLER DATA			MOTOR DATA			
	Propeller Ø	Speed	Thrust	Rated power		Speed	Rated current
GTWSI-EX	mm	rpm	N	kW	hp	rpm	A
1040	490	470	1,500	7.5	10.0	1,475	15.4
1540	710	240	2,500	11.0	15.0	1,460	21.2
204	820	240	3,500	15.0	20.0	1,460	28.9

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## Submersible mixers GTWSU

### for channels

The GTWSU series is perfectly designed for circulation in a slurry channel.

With constant output, the Eisele high-performance mixer ensures even intermixing, even with viscous substrates.



7.5 kW to 15.0 kW

### Benefits

- No struts at the top which could impede the substrate flow
- Large, two-vane wide-blade propellers enable large nozzle opening
- Enormous thrust performance / circulation rate
- Corrosion-free stainless steel construction

# Submersible mixers GTWSU

for channels



Slalom system

## Features

- Optionally available with slide rails (GTWSU 1040) or angled guide rails (all GTWSU)
- Carriage and nozzle (galvanized / stainless steel)
- Propeller in different variants

## Accessories

- Various switches / control systems

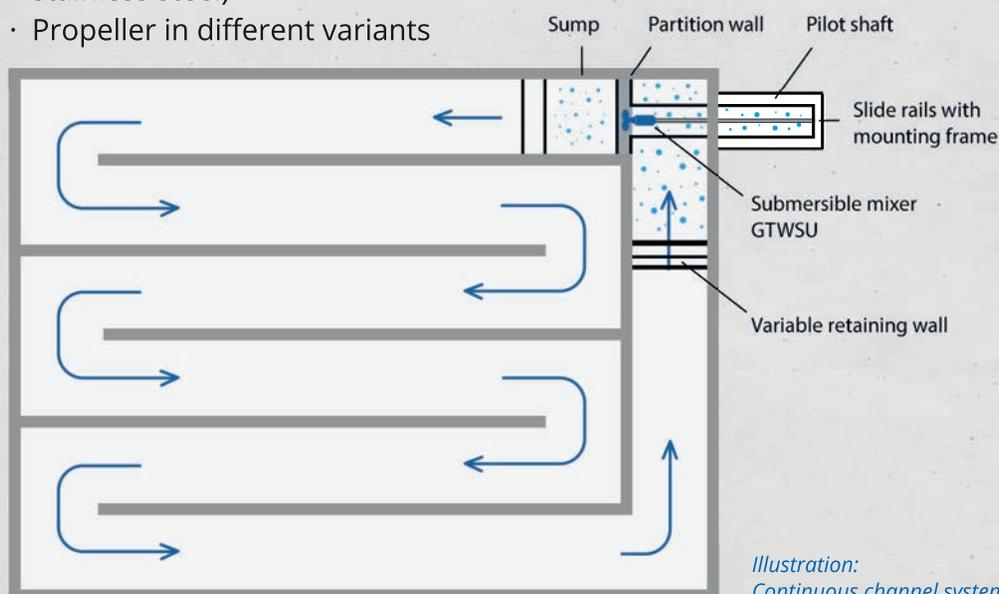


Illustration:  
Continuous channel system with GTWSU 1040 with slide rails

## Technical Data

Type	PROPELLER DATA			MOTOR DATA			
	Propeller Ø	Speed	Thrust	Rated power		Speed	Rated current
GTWSU	mm	rpm	N	kW	hp	rpm	A
1040	490	470	1,500	7.5	10.0	1,450	15.2
1540	710	240	2,500	11.0	15.0	1,460	21.2
204	820	240	3,500	15.0	20.0	1,460	28.9

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## Submersible mixers GTWSH

### for channels

**With the height-adjustable sewage mixer GTWSH 204, slurry channels and slalom systems with a depth of up to 6.0 m can be effectively homogenised.**

A winch can be used to adjust the height of the mixer so that it operates at the required position. A tear-resistant and slurry-resistant fabric tarpaulin closes the opening above and below the mixer. The specially designed nozzle has no struts at the top, ensuring obstruction-free, even intake of floating layers.



**15.0 kW**

### Benefits

- No struts at the top which could impede the substrate flow
- Large, two-vane wide-blade propellers enable large nozzle opening
- Openings in the nozzle mantle effectively draw floating layers in
- Enormous thrust performance / circulation rate
- Corrosion-free stainless steel construction

# Submersible mixers GTWSH for channels



## Features

- Stainless steel carriage and nozzle
- Stainless steel propeller
- Stainless steel guide rails
- Traverse for lifting the mixer
- Tear-resistant, slurry-resistant fabric tarpaulin

## Accessories

- Various switches / control systems

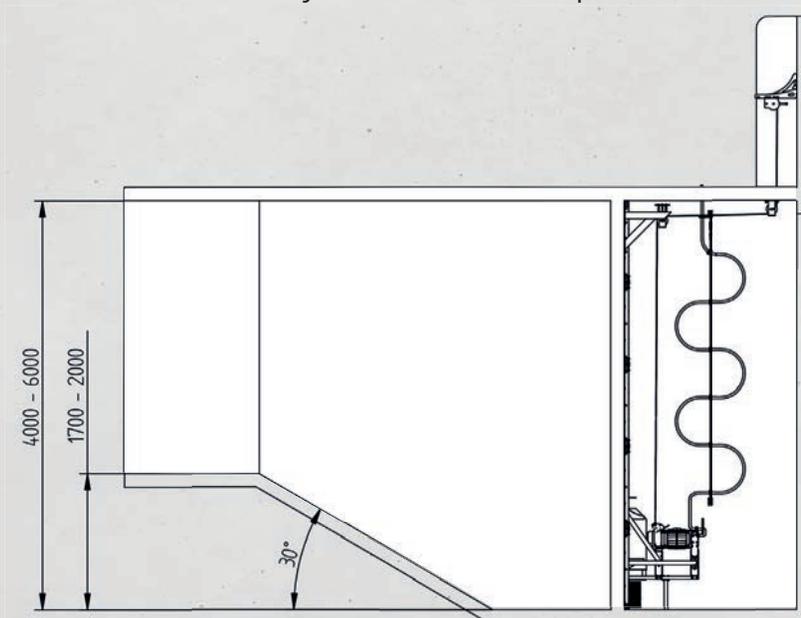


Illustration: Installation measurements

## Technical Data

Type	PROPELLER DATA			MOTOR DATA			
	Propeller Ø	Speed	Thrust	Rated power	Speed	Rated current	
GTWSH	mm	rpm	N	kW	hp	rpm	A
204	820	240	3,500	15.0	20.0	1,460	28.9

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