



**BAUER**

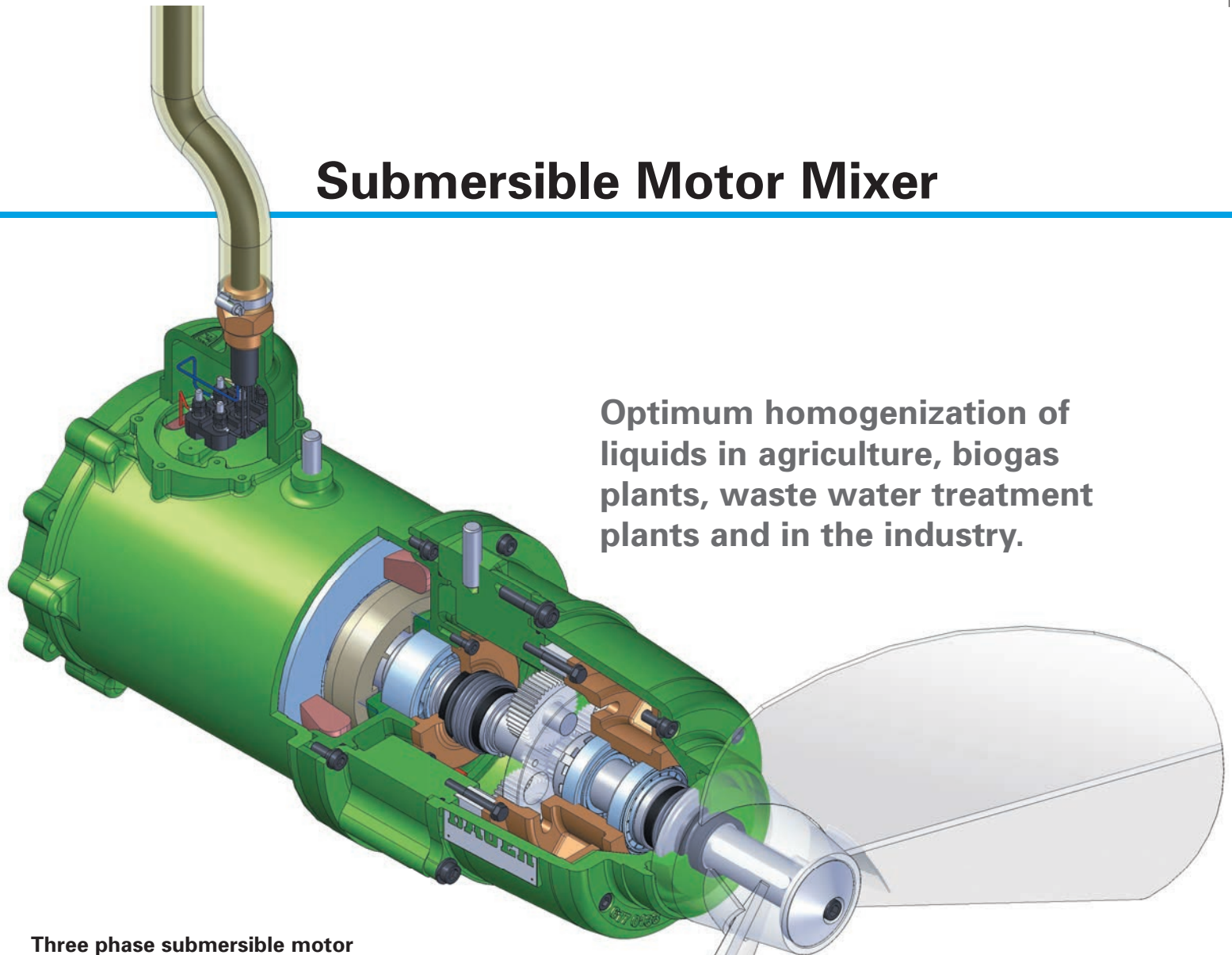
*FOR A GREEN WORLD*



# Submersible Motor Mixer

Optimal solution for homogenizing liquids

# Submersible Motor Mixer



**Optimum homogenization of liquids in agriculture, biogas plants, waste water treatment plants and in the industry.**

## **Three phase submersible motor**

For optimal protection a thermic winding protection is installed in the motor. The thermic winding protection (PTC-resistor) has a phase protection device and is over voltage and low voltage proof as well as capacity overload proof.

Medium temperature MSX up to 40 °C / MSXH up to 65 °C.

## **Strong planetary reduction gear unit that guarantees high efficiency**

High stability due to various hardened and polished interlocking gears. These gears reduce the friction, which results in less power consumption and high efficiency.

## **Elegant design – high quality material**

A special design concept, achieved by aligning the motor and propeller on the same axle level, guarantees high efficiency. The resulting elegant and streamlined motor design has an additional effect on the efficiency. The heavy-duty propeller shaft is equipped with shoulder roller bearings. A cleverly devised oil guiding system guarantees that the mixers are well lubricated in every position.

An oil leak detection probe is included in the models MSXH.

## **Special shaft seal**

Two high quality mechanical seals guarantee trouble-free operation and a long life span.

## **Sturdy cable**

With strain relief device that guarantees operating safety.

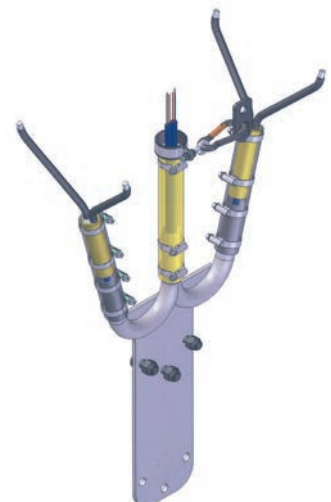
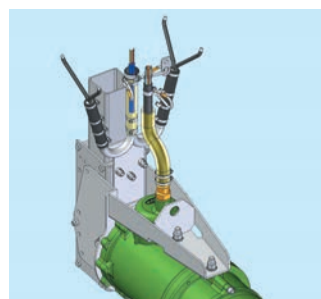
## **Two-wing thrust propeller**

Made of stainless steel (optional hardox), self cleaning; high efficiency due to large diameter and special thrust edge.

## **Explosion protection device as safety device**

For the special application of submersible mixers in biogas plants BAUER has equipped the mixers with level probes that guarantee safety shut off when the mixers come out of the liquid medium in the fermenter.

TÜV proofed corresponding to DIN EN 50020:2003-8.





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## MSX submersible mixers for pits and slalom systems

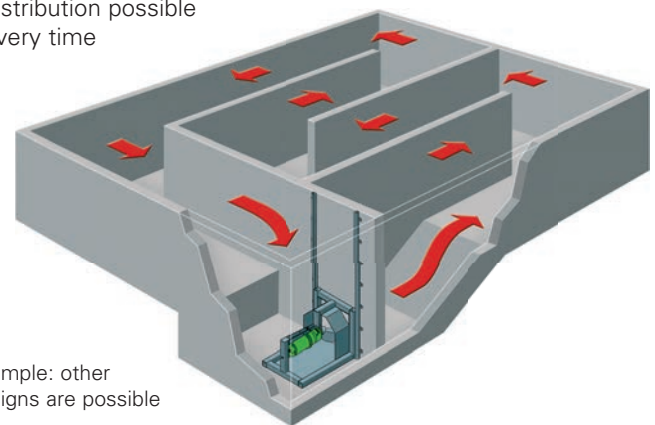
### Lifting-and lowering device for open and closed tanks

- easy installation, handling and maintenance
- stable square guiding pipe 100/100 with swivelling bearing
- spur wheel rope, 900 kg traction force, stainless cable, self locking
- **All parts that get in touch with the medium are in stainless steel**

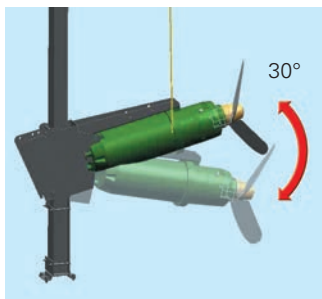


### Slalom system

- homogenisation of the slurry in an endless channel via timing device
- well mixed slurry all the time
- distribution possible every time

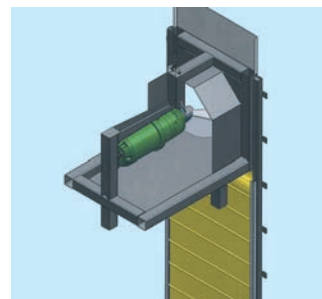


Example: other designs are possible



### Guiding bracket with an adjustable angle of inclination

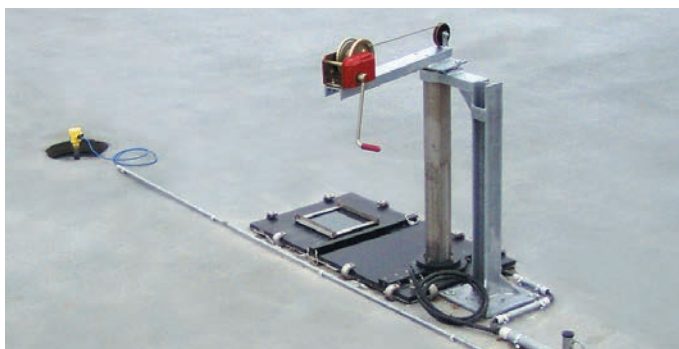
guarantees an even better mixing result and a faster dissolving of floating material and bottom sediments.



### Application in deep slurry pits

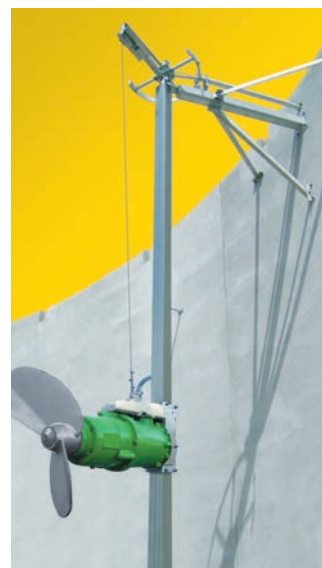
Optional: Height adjustable mixing channel with back up canvas plane for optimum mixing results.

## Submersible motor mixer MSXH in biogas plants



### Lifting-and lowering device for fermenter with gas proof service lid

- Gas tight interface for all external parts
- Easy to handle / adjustment of the mixer
- Swivelling and height adjustable from the outside
- Optimum mixing of the fermenting substrates



### Gas tight interface in tank wall

with control elements on the outside.

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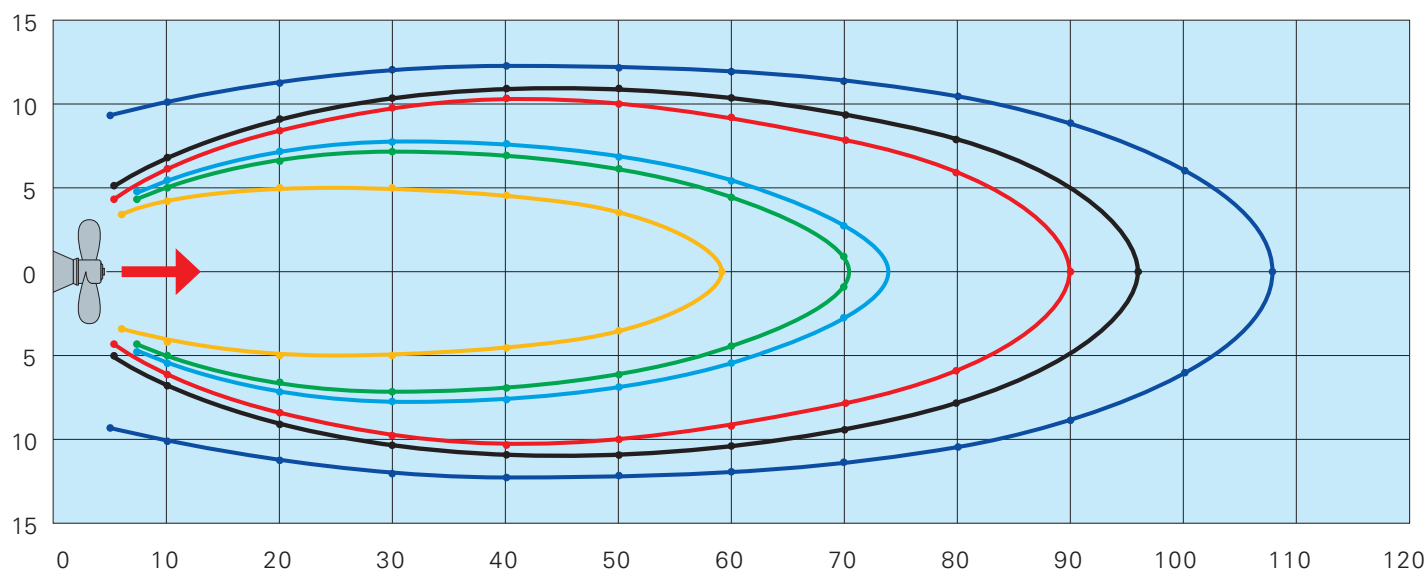
## Technical data

MSX	MSX 5.5	MSX 7.5	MSX 8.5	MSX 11	MSX 12.5	MSX 15
MSXH**		MSXH 7.5		MSXH 11		MSXH 15
Output [kW]	5.5	7.5	8.6	11	12.6	15
Voltage [V]	400	400	240 / 480	400	240 / 480	400
Frequency [Hz]	50	50	60	50	60	50
Mixing power* [m³/h]	2 800	3 600	3 900	5 200	5 700	6 800
Pit volume* [m³]	900	1 400	1 500	2 200	2 400	2 800
Propeller [mm]	550	600	550	665	600	750
Propeller [min⁻¹]	315	315	378	304	378	315
Weight [kg]	175	195	195	205	205	225

\*) depending on the medium

\*\*) MSXH with temperature class H (maximum temperature 65° Celsius) and leak detection probe

## Flow range



Flow range in m with 0.1 m/s (values apply to water)

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