

# Submersible Mixer Type ABS XRW 750

The compact submersible mixer type ABS XRW 750 is specifically designed for the major mixing functions during the homogenization of sludge and slurry.

## Construction

The submersible mixer is designed as a compact, water-pressure-tight unit, including propeller and integrally casted installation bracket for attachment to a square guide tube. The mixers are available in two standard material versions: EC = cast iron version, CR = stainless steel version Maximum allowable temperature of the medium for continuous operation is 40 °C.

#### Motor

Premium Efficiency IE3, squirrel cage, 3-phase, 4-pole, 50 Hz, insulation Class F (155 °C), max. submergence 20 m.

#### Propelle

The mixer is equipped with a special 2-blade mixed-flow propeller. With this propeller a very strong rotating turbulent flow is produced in semi-axial flow direction. Therefore this propeller combines all properties for the homogenization of sewage sludge which belongs to the intrinsic viscous substances.

## Solids deflection ring

The solids deflection ring protects the mechanical seal from damage by ingress of solid or fibrous matter.

#### Bearings

All bearings are lubricated-for-life and maintenance-free, with a calculated lifetime of more than 100 000 h.

#### Gearbox

High-efficiency planetary gearbox, fatigue strength with a calculated life time more than 100 000 h.

#### Shaft sealing

Mechanical seal: Silicon carbide / Silicon carbide. O-Rings / lip seals: NBR.

# Seal monitoring

Leakage sensor (DI) in the junction box, oil chamber\*, and motor.

\* not in Ex version.

#### Temperature monitoring

Thermal sensors in the stator which open at 140 °C.

#### Cable

10 m sewage resistant material. Optional lengths (m): 15, 20, 30, 40, 50.

#### Options

explosion-proof version, viton seals, additional seal (C-Cr), shielded cable, PTC in the stator, insulation Class H, lifting bracket.

# Weight

285 kg.



#### **Features**

- Highly efficient submersible mixer for the homogenisation of high concentrated sewage sludge.
- Reduced energy cost due to a unique drive unit design including a high efficient gear box.
- No risk to motor overloading due to high or varying dry matter content.
- Reduced mixing times
- Blockage-free, 2-blade propeller reduces LCC.

## Motor data

PA 150/4	
15.0	
29.9	
296¹	
92.3	
0.78	
	15.0 29.9 296¹ 92.3

<sup>1 =</sup> gear ratio i = 5

## Mixer performance table

Hydraulic No.	Mixer power P <sub>p</sub> in kW	Motor kW
7511	9.7	15.0

# Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4404 (AISI 316 L)
Sliding bracket	EN-GJL-250 painted / polyamide (CF-8M)	1.4470 / polyamide (CF-8M)
Motor / Propeller shaft	1.4021 / EN-GJS-700-3	1.4021 / EN-GJS-700-3
Propeller	1.4571 (AISI 316 Ti)	1.4571 (AISI 316 Ti)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

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