

Submersible mixer
type ABS XRW 900



Main industries and applications

The submersible mixer type ABS XRW 900 is a compact and versatile mixer with a wide range of applications, including use in aggressive and abrasive liquids.

Its design makes it particularly suitable for mixing and stirring applications in sewage treatment plants and industrial areas such as:

- Equalization of sewage
- Biological processes (aerobic, anoxic and anaerobic)
- Selector (contact zone)
- Sludge buffer tank

Also applicable for homogenization of highly concentrated sludge and slurries such as:

- Primary, secondary and digested sludge in storage and buffer tanks
- Lime and mineral slurries

Hazardous locations:

- Certification for ATEX (Ex II 2G Ex h db IIB T4 Gb), FM and CSA available as an option



Water and wastewater



Pulp, paper and board



General industry

Features and benefits

When you choose our submersible mixer XRW, you choose the market's best ongoing energy performance. You also get the best lifecycle cost, from initial purchase to continuous operation.

The following features and benefits apply to the 900 model of the submersible mixer type ABS XRW, which is used for mixing at medium-low speeds.

Energy-saving, Premium Efficiency IE3 asynchronous motor

- Ensures the lowest possible energy consumption
- Keeps operating temperature low for longer product life

Robust planetary gearbox

- Strongly designed for high reliability
- Provides fatigue strength for long operating life

Strong bearing configuration in motor and gearbox

- Offers true reliability with a calculated bearing lifetime of more than 100'000 operating hours
- Needs no maintenance – bearings lubricated for life

Large rotor shaft

- Keeps shaft deflection to a minimum through heavy-duty construction

Sealed connection chamber

- Simplifies mixer maintenance
- Safeguards the motor to ensure high reliability

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Triple seal system with dual oil chamber

- Improves motor and gearbox protection

Enhanced mechanical seal protection system

- Keeps the mechanical seal clog-free
- Greatly extends the life of the seal

Hydraulic-optimized stainless steel propeller

- Ensures the highest possible mixing performance
- Reduces maintenance through self-cleaning

Multiple moisture sensor (DI) seal monitoring

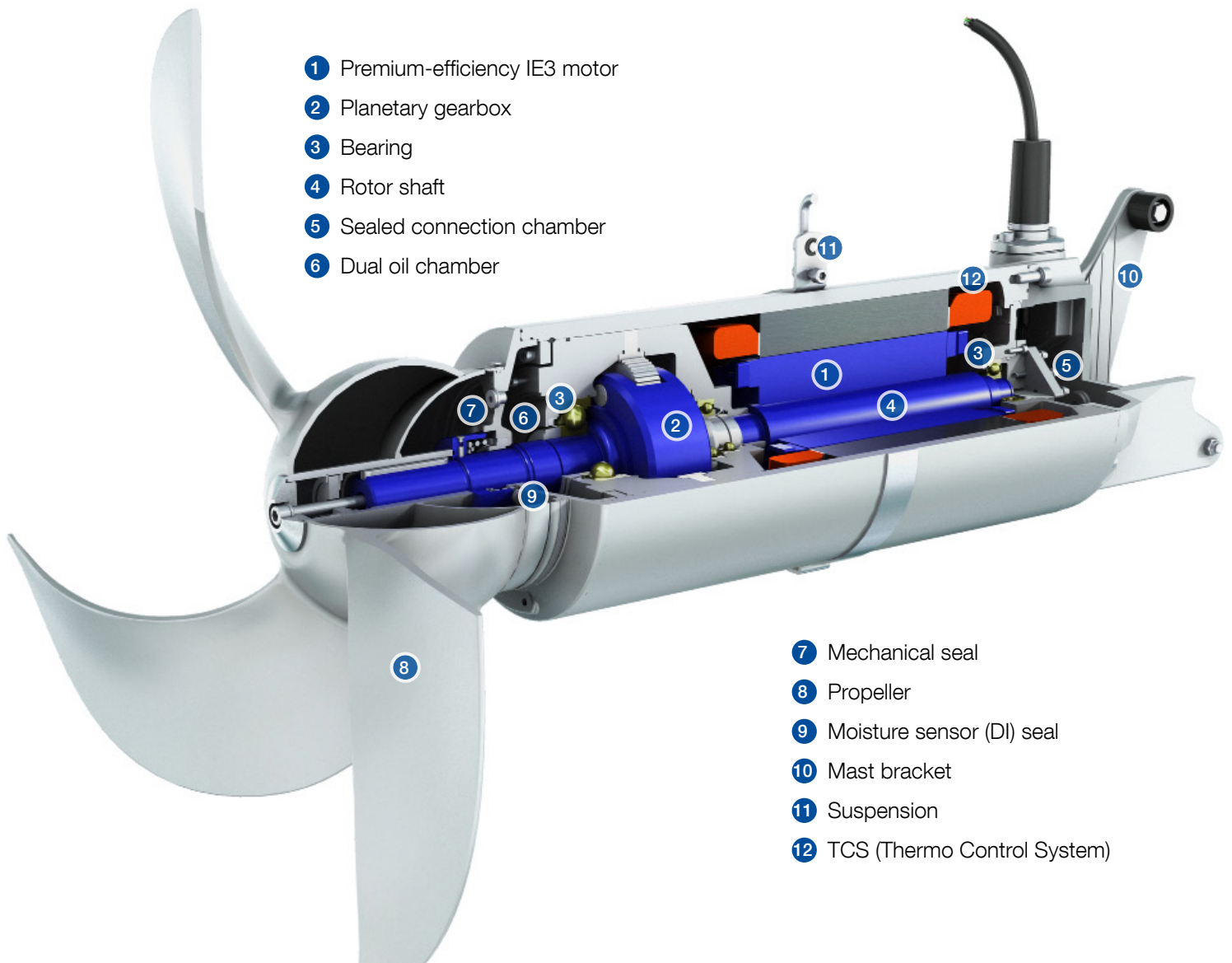
- Secures full protection of motor and gearbox

Abrasion-resistant, galvanically insulated mast bracket and suspension

- Reduces the risk of electrochemical corrosion

TCS (Thermo Control System)

- Provides a warning or switches off the motor automatically before the permissible temperature limit is exceeded, whether due to high-temperature medium or another problem source



Materials

Mixer part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4571 (AISI 316Ti)
Motor shaft / propeller shaft	1.4021/EN-GJS-700	1.4021/EN-GJS-700
Propeller	1.4571 (AISI 316Ti)	1.4571 (AISI 316Ti)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

Operating data

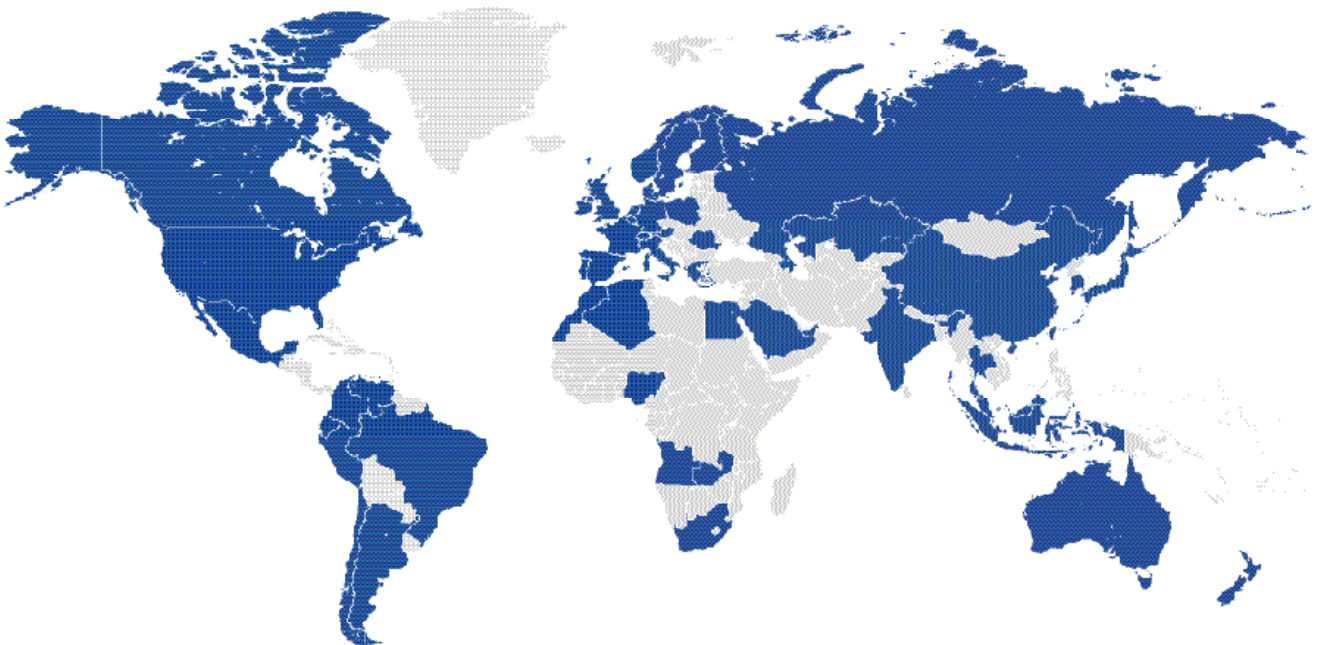
	50 Hz (IE3)	60 Hz (IE3)
Propeller diameter	900 mm	900 mm 35 in.
Motor power	up to 22 kW	up to 25 kW up to 33.5 hp
Motor efficiency	up to 92.3%	up to 93%
Mixing flow	up to 1.79 m ³ /s	up to 1.79 m ³ /s up to 28'300 USgpm





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