

Submersible mixers
type ABS XRW 400 and 650



Main industries and applications

The submersible mixer type ABS XRW 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)

Also applicable for homogenization 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



General
industry



Pulp, paper
and board

Features and benefits

The following features and benefits apply to the 400 and 650 models of the submersible mixer type ABS XRW, which are used for mixing at medium speeds.

Premium Efficiency (IE3-equivalent) sensorless permanent-magnet motor controlled by variable-frequency drive (VFD)

- Ensures the lowest possible energy consumption
- Allows process optimization through fully variable speed
- Keeps operating temperature low for longer product life
- Provides high overload capacity

Large, long-lasting bearings

- Offer true reliability with a calculated lifetime of more than 100'000 operating hours
- Need no maintenance – lubricated for life

Pre-loaded upper bearing

- Prevents spinning through the design of the outer ring
- Eliminates backlash
- Ensures longer bearing life

Large rotor shaft

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

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 ongoing operation.

Sealed connection chamber with quick-connection block

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

Triple seal system with dual oil chamber

- Improves motor protection

Enhanced mechanical seal protection system

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

Hydraulic-optimized stainless steel propeller

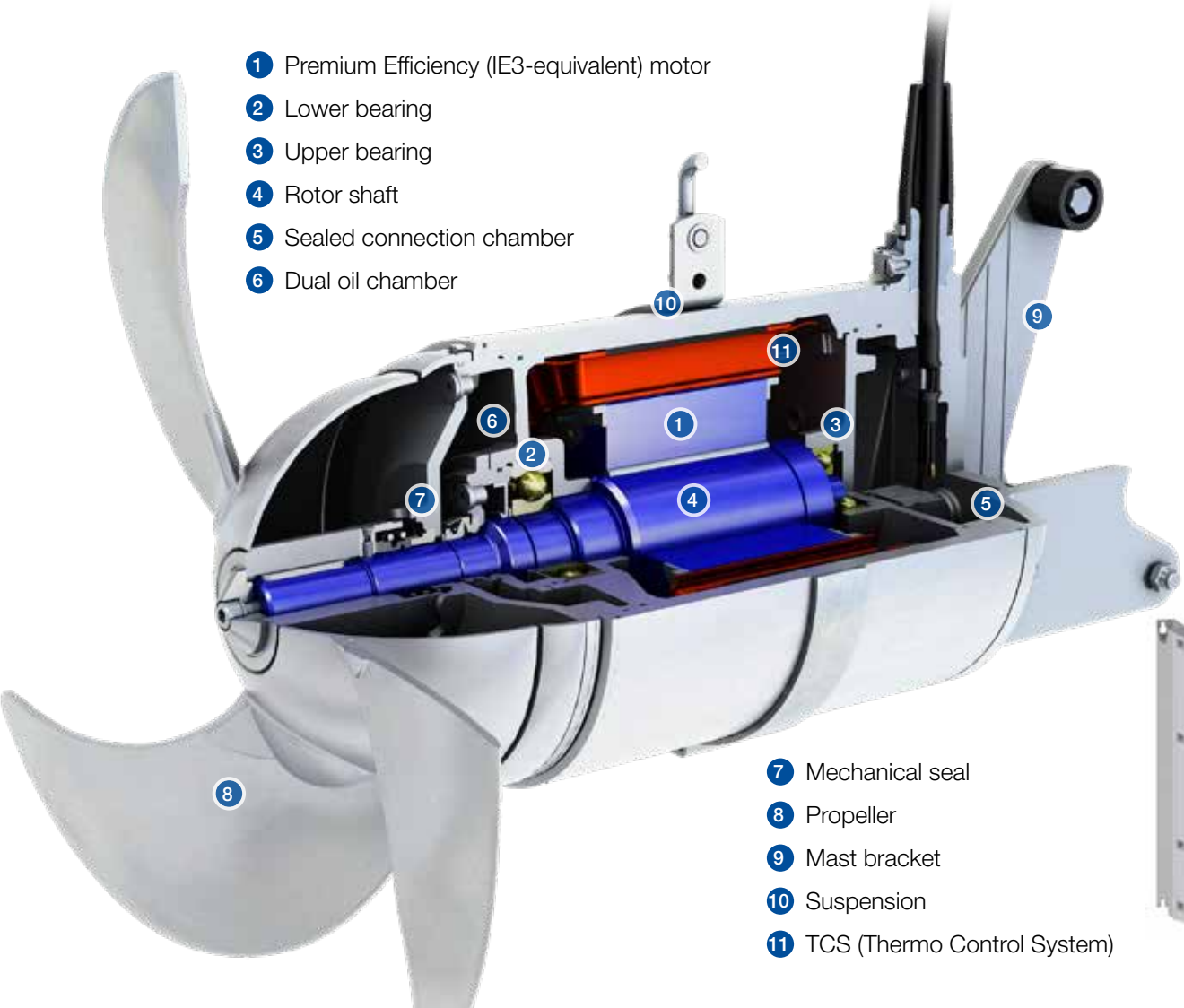
- Ensures the highest possible mixing performance
- Reduces maintenance through self-cleaning

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

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- 1 Premium Efficiency (IE3-equivalent) motor
 - 2 Lower bearing
 - 3 Upper bearing
 - 4 Rotor shaft
 - 5 Sealed connection chamber
 - 6 Dual oil chamber

- 7 Mechanical seal
- 8 Propeller
- 9 Mast bracket
- 10 Suspension
- 11 TCS (Thermo Control System)



VFD

Materials

Mixer part	CR (stainless steel)
Motor housing	1.4404 (AISI 316L)
Motor shaft	1.4401 (AISI 316)
Propeller	1.4571 (AISI 316Ti)
Fasteners	1.4401 (AISI 316)

Operating data

	50 Hz (IE3 equivalent)	60 Hz (IE3 equivalent)
Propeller diameter	400 / 650 mm	400 / 650 mm 16 / 26 in.
Motor power	3 – 10 kW	3 – 10 kW 4 – 13.4 hp
Motor efficiency	up to 91%	up to 91%
Mixing flow	up to 0.83 m ³ /s	up to 13'200 USgpm up to 0.83 m ³ /s







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