Passavant
Surface Aeration

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Over 50 years of experience and more than 10,000 installed plants worldwide account for our experience in Surface Aeration.

**MAMMOTH ROTOR®**
The MAMMOTH ROTOR® is a horizontally arranged aerating rotor. Aerating elements enrich the water in activated sludge tanks with oxygen from the environment and simultaneously circulate the water.

**Tank Geometry**
- Application for water depths of up to 8 m
- Circular, circulation and loop type tanks with or without anaerobe or anoxic tank zone

**Technology**
- Oxygen enrichment coefficient $\alpha = 1$
- Upstream, simultaneous and intermittent denitrification
- Simultaneous aerobe sludge stabilization
- Surface aeration with separate tank circulation
- High process stability through high buffer capacities

**Measuring and Control Technology**
- Simple control concept with ammonium/nitrate-N and redox control
- Simple control cycles with high-grade control safety

**Types:**
- MR 700: 1 – 6 m length
- MR1000: 3 – 9 m length
- Tank depth: up to 8 m

**Advantages**
- Long service life
- Low operating costs
- Minor aerosol and sound emission through encapsulation of the mounting bridges
- Simple maintenance without tank drainage
- Extremely corrosion resistant
- Steady oxygen input capacity throughout the complete service life

**HD Rotary Aerator**
The HD Rotary Aerator consists of blade units arranged on a vertical hollow shaft. The design was developed from a variety of commercial and semi-commercial tests and trials.

**Tank Geometry**
- Rectangular, circular and loop type tanks

**Control**
The oxygen input is either controlled via immersion depth of the blades and/or via the rotational speed of the rotary aerator.

**Types**
- Diameter: 1.0 – 3.8 m
- Tank depth: 2.8 – 5 m
- Type S – for smaller plants with flat blades
- Type RS – for larger plants with shaped blades
- Graded sizes for optimum adjustment to capacity

**Advantages**
- High oxygen input capacity
- Long service life
- Maintenance without tank drainage
- Steady oxygen input capacity throughout total service life
- No clogging
- No additional circulation units and ducts required
- Minor interference of oxygen input caused by ingredients in the waste water
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