

PASSAVANT GEIGER



Passavant Surface Aeration

PASSAVANT

Produkte & Service

AERATION TECHNOLOGY

Over 50 years of experience and more than 10,000 installed plants world wide 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 aerobic sludge stabilization
- Surface aeration with separate tank circulation
- High process stability through high buffer capacities

Measuring and Control Technology

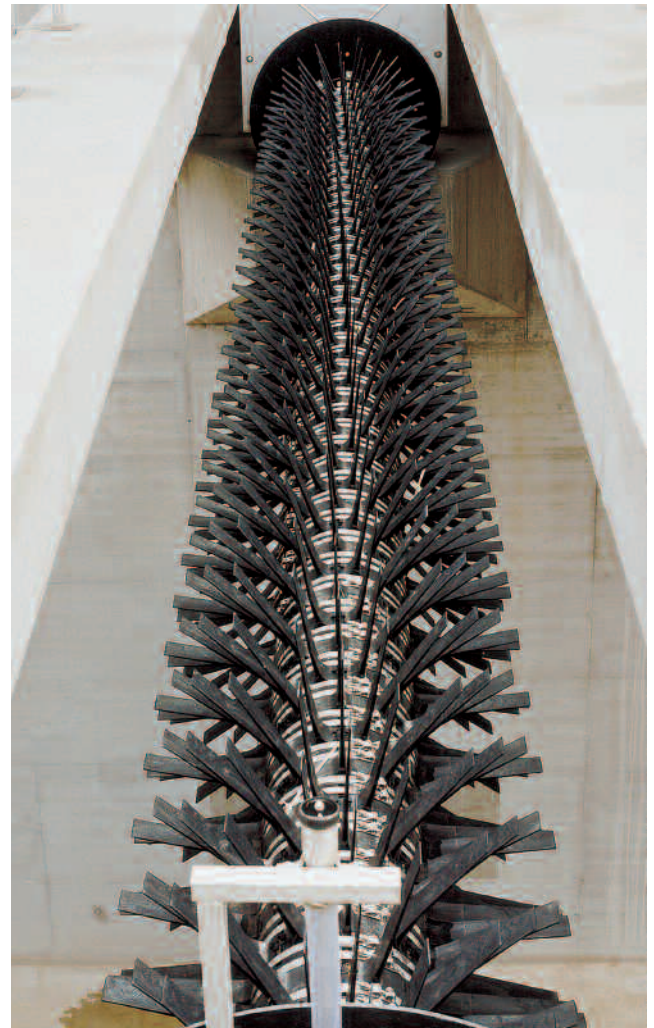
- Simple control concept with ammonium/nitrate-N and redox control
- Simple control cycles with high-grade control safety

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



1 Mammoth Rotors in use

2 Mammoth Rotor components (top)



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

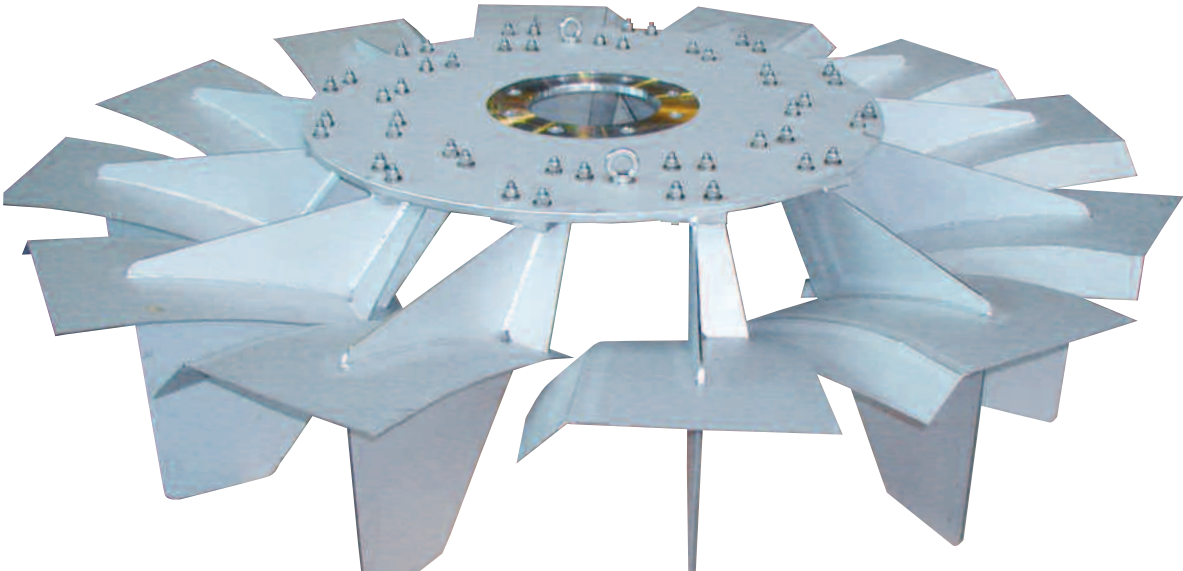
The oxygen input is either controlled via immersion depth of the blades and/or via the rotational speed of the rotary aerator.

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

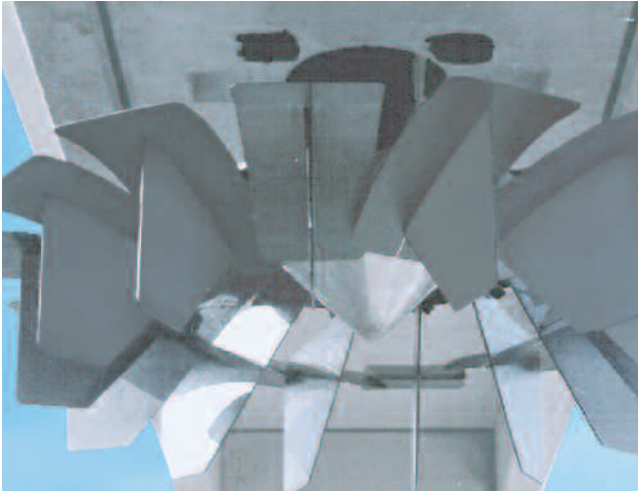
- HIGH OXYGEN INPUT CAPACITY
- LONG SERVICE LIFE
- MAINTENANCE WITHOUT TANK DRAINAGE
- STEADY OXYGEN INPUT CAPACITY THROUGHOUT TOTAL SERVICE LIFE
- NO CLOGGING
- NO ADDITIONAL CIRCULATION UNITS AND DUCTS REQUIRED
- MINOR INTERFERENCE OF OXYGEN INPUT CAUSED BY INGREDIENTS IN THE WASTE WATER

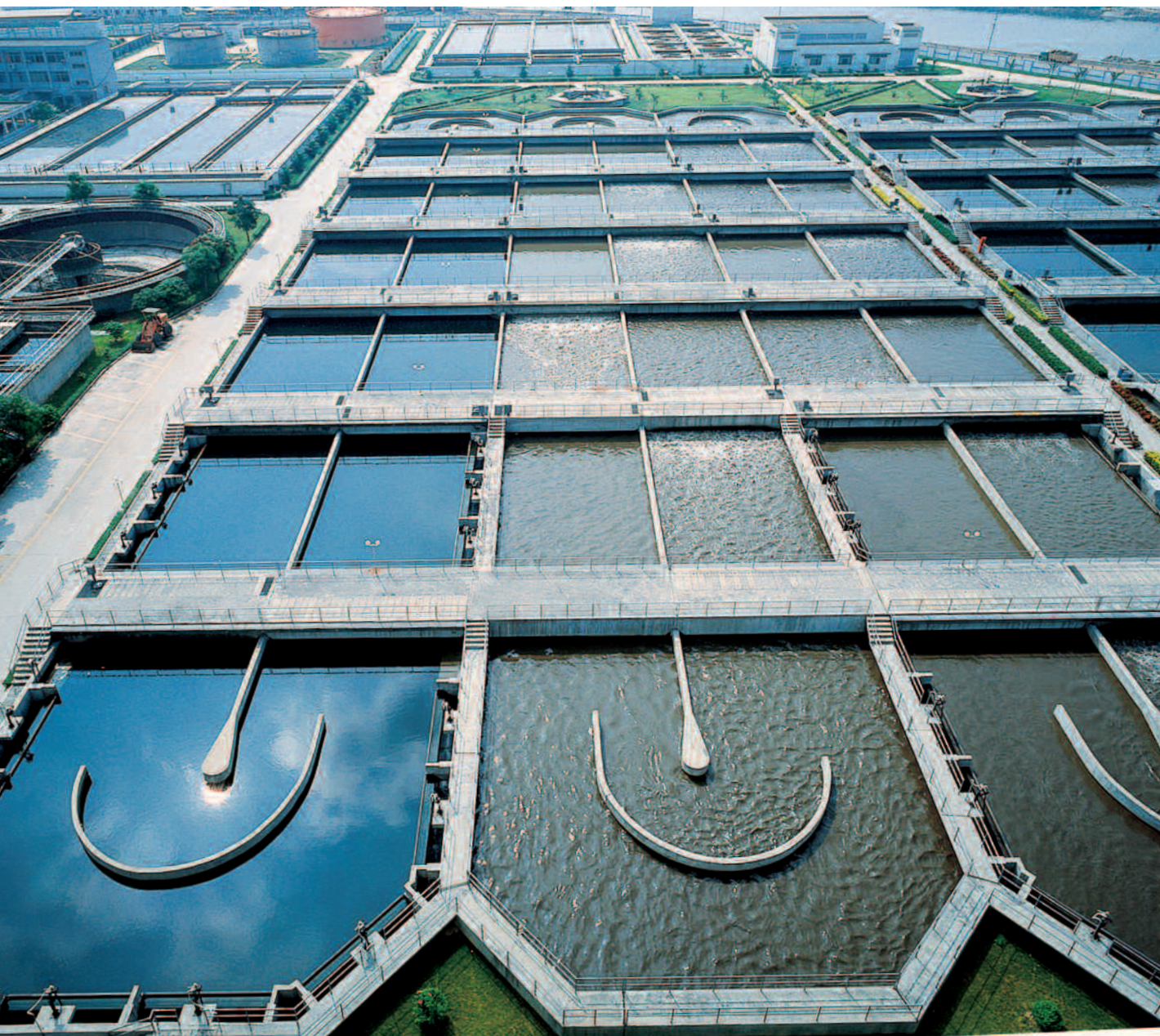


3 HD Rotary Aerator in use



4 HD Rotary Aerator RS type (top and bottom)





Passavant-Geiger GmbH
Business Unit Passavant
Passavant-Roediger-Straße 1
65326 Aarbergen, Germany
Phone: +49 6120 28 - 2280
Telefax: +49 6120 28 - 2182
www.passavant-geiger.de
info@passavant-geiger.de