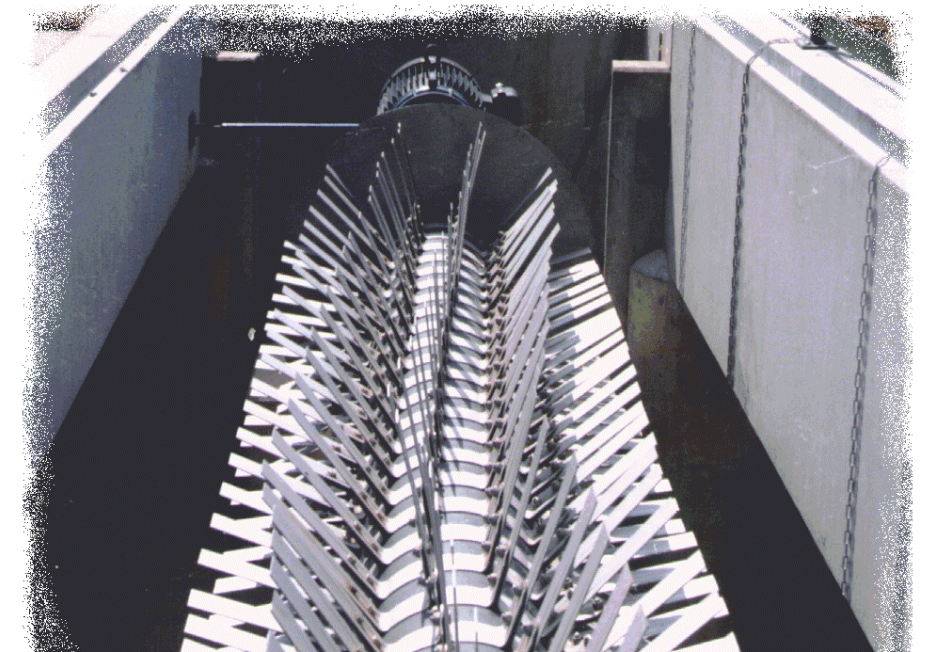
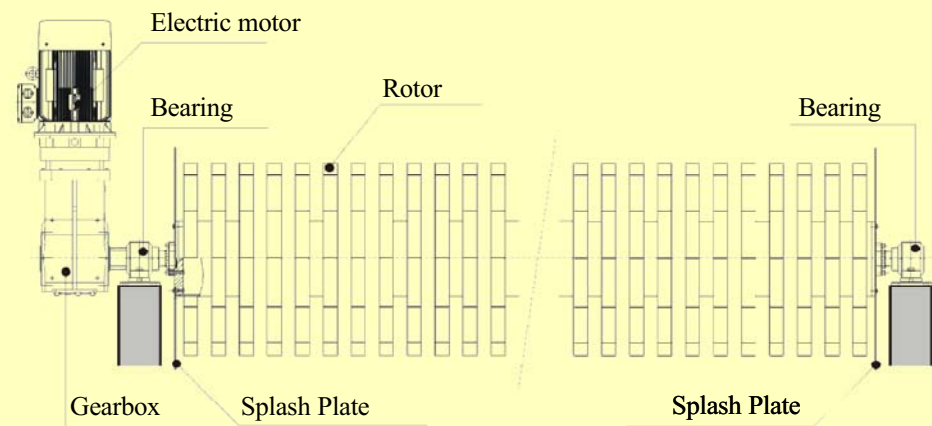
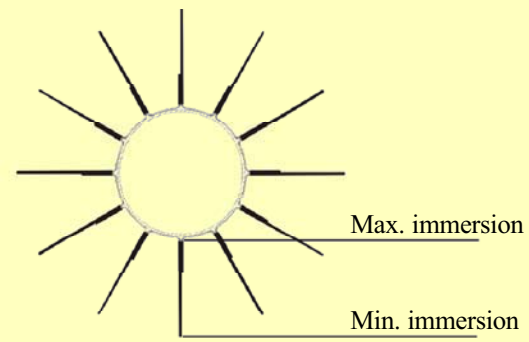
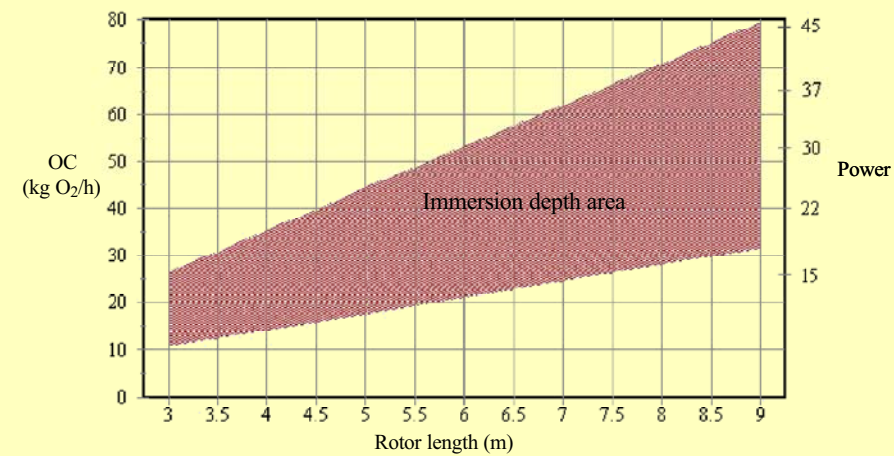


# O<sub>2</sub> ROTOR BRUSH AERATOR



## Selection

By adapting the rotor length and the size of the drive, the most effective aeration configuration can be created for every situation.



Spaans Babcock bv

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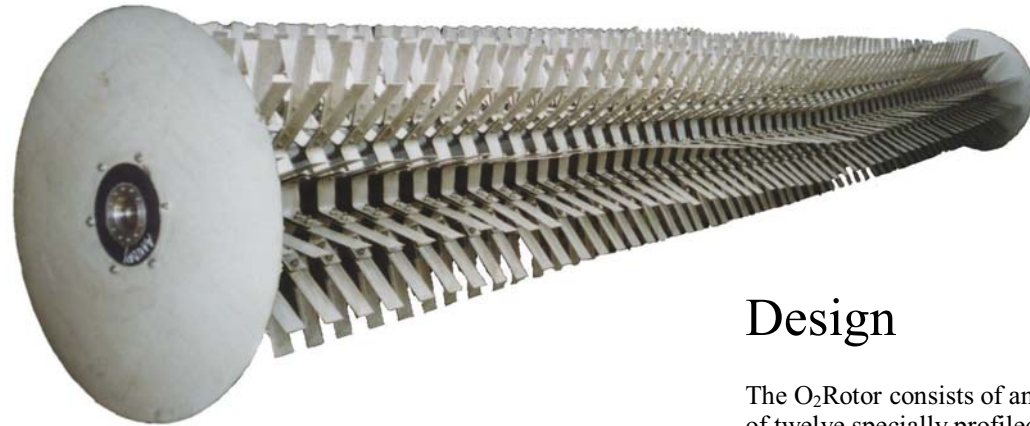
Commercial register  
Leeuwarden 34004868





## Brush aerator

The Spaans Babcock brush aerator was first introduced in 1960. A design review was undertaken in 1998 resulting in the introduction of the O<sub>2</sub>Rotor incorporating enhanced materials and product reliability. The resulting modernisation ensures the Spaans Babcock rotor over 40 years after it was first introduced is still a viable product.



## Performance

The design of the O<sub>2</sub>Rotor generates excellent ditch propulsion characteristics combined with high oxygen transfer.

## Design

The O<sub>2</sub>Rotor consists of an assembly of twelve specially profiled blades arranged radially around the horizontal tubular shaft. Adjacent assemblies are staggered to ensure that adjacent blades do not contact with the water surface at the same time. This staggering ensures the forces generated are reduced resulting in less vibration and increased bearing and gear life.

The standard blades are fabricated from stainless steel which is more resistant to corrosion, gives a longer life than conventional galvanized steel blades and are easily replaced should they be damaged due to floating debris having inadvertently entered the aeration tank.

Both ends of the rotor are supported by self-aligning heavy duty bearing assemblies with re-greasing facilities. The bearing assemblies incorporate a labyrinth type seal arrangement which ensures a watertight construction and facilities to accommodate thermal expansion/contraction due to temperature change.

The standard drive assembly comprises a heavy duty hollow parallel shaft speed reducer with torque arm driven by an electric motor. An alternation option available comprises a separate gearbox and flexible coupling.

## Accessories

The following are some of the accessories that can be supplied for the O<sub>2</sub>Rotor:  
Covers, to reduce noise and aerosols.  
Baffle plates, to optimise oxygen input and flow pattern.



Covers



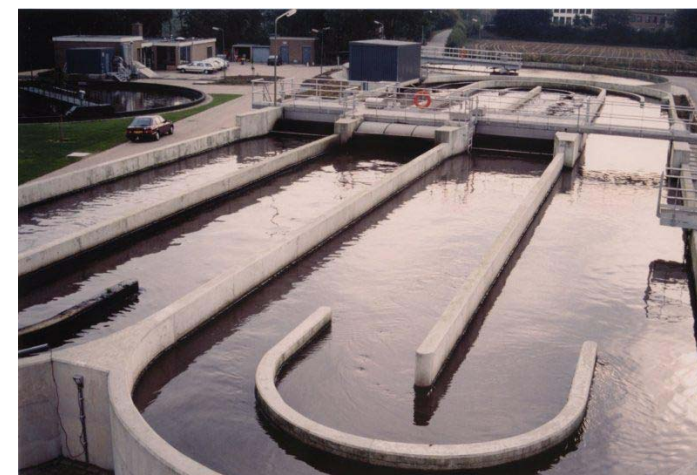
Baffle plates



O<sub>2</sub>Rotor in action

## Flexible

Its outstanding capacity and stirring action makes the O<sub>2</sub>Rotor perfect for use in circulating systems and oxidation tanks. The O<sub>2</sub>Rotor is suitable for supporting from the side walls of a tank or ditch or centrally on a concrete or steel bridge.



Oxidation ditch

## Advantages

- High oxygen efficiency
- Outstanding propulsion capacity
- Smooth operation
- Clog free design
- Low maintenance
- Universally adaptable