

# BioMover™

## Advanced MBBR and IFAS Mixing Technology

The biofilm carriers used in the MBBR and IFAS processes in modern waste water treatment plants are typically made of HDPE with slightly buoyant density and are designed to offer large protected surface area for biofilm growth.

MBBR = Moving Bed Biofilm Reactor  
IFAS = Integrated Fixed-Film Activated Sludge  
HDPE = High-Density Polyethylene

## Advantages of the Landia BioMover™

- Compatible with all types of biofilm carriers from various suppliers.
- The stainless steel propeller, with its wide blades and low tip speed, ensures gentle and energy efficient mixing of the biofilm carriers.
- Gentle mixing prevents damage to the fragile media, while sloughing the surplus biofilm and ensuring full contact between bacteria and nutrients.
- Guaranteed mixing performance to keep solids and biofilm carriers in suspension, thereby preventing biomass from settling on the tank floor and keeping sieves free from clogging.
- Dozens of different motor sizes and individual propeller designs ensures effective mixing of media in all types of tanks.



**Quality in every detail**

HIGH EFFICIENCY

LOW LIFE CYCLE COST

GUARANTEED MIXING PERFORMANCE

## Experience

Over the past two decades, Landia has installed Biofilm Mixers in numerous waste water treatment plants around the world.

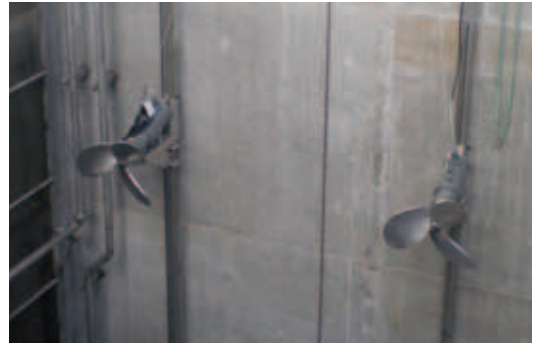
The mixer in this photo has just been retrieved for service inspection after completing 5 years of non-stop operation in an anoxic biofilm reactor.



## Individual solutions

An example of two new Landia BioMovers installed in a deep MBBR-tank in North America.

The required size of the motor and the propeller are calculated individually for each project to ensure high efficiency and low life cycle costs.



## Filling new media into the tank

The fill-fraction is typically 20 to 65 percent of the total tank volume... so it requires a lot of media components! Please contact the individual MBBR and IFAS system suppliers for advisory and more details on the complete biological processes.



## Worldwide sales and service

Landia is a global company, founded in Denmark in 1933. We offer worldwide Engineering, Delivery and After Sales Service.

Visit [www.landia.co.uk](http://www.landia.co.uk) for more information about the BioMover™ and other advanced mixer, chopper pump and aeration solutions.



# Landia... we put the Move in "Moving Bed Biofilm Reactors" ...



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