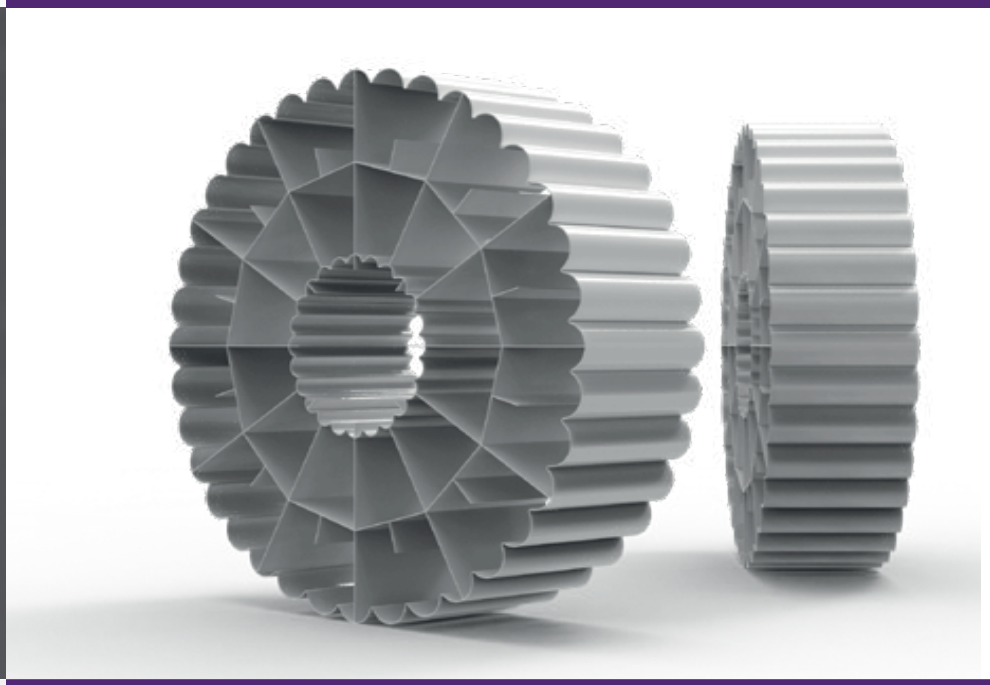
TECHNOLOGY HIGHLIGHTS

OVIVO® INDUSTRIAL

BIO-STAR™ AEROBIC MBBR



WASTEWATER HIGH QUALITY EFFLUENT TREATMENT

WASTEWATER EFFLUENT TREATMENT | BIO-STAR AEROBIC MBBR

The Bio-Star Moving Bed Bioreactor (MBBR) is a compact, cost effective biological wastewater treatment process that is robust, reliable and easy to operate. The fixed film nature of the MBBR biomass is less susceptible to upsets caused by the highly variable conditions and fluctuating loads often encountered in industrial applications. Upgrades and expansion of existing wastewater processes to an MBBR can be easily and economically achieved.

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HOW IT WORKS

In the Bio-Star Moving Bed Biofilm Reactor (MBBR) process, a multitude of plastic biomass carriers (or media) with a large surface area are suspended in a wastewater treatment reactor and efficiently mixed through coarse bubble aeration. Micro-organisms form a biofilm on the surface of carriers to biologically oxidize organic carbon (BOD) and ammonia nitrogen (NH3-N).

APPLICATIONS AND MARKETS

- Food & Beverage
- Aquaculture
- Chemical Manufacturing
- Biofuels

FEATURES & BENEFITS

- Wide industrial applications
- Treats high organic loads
- High performance biofilm carriers
- Resistant to variable loads
- Rapid recovery from toxic shots and intermittent shut-downs

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