ENVIRONMENTAL

GloTech Corporation

HM-SERIES

HYPERBOLOID MIXER

HM HYPERBOLOID MIXER

GloTech's HM series of hyperboloid mixers provides optimal mixing tailored for demanding industrial and wastewater treatment applications.

The HM series mixer is available in several installation configurations to fit virtually any existing wastewater treatment facility, avoiding the cost of expensive and time consuming plant retrofits.

Design Advantages. The unique impeller design and mechanical movement allows for steady oxygen transfer rates across a wide range of media from clear water to wastewater. The gentle mixing action keeps solids suspended and prevents sediment from settling at the tank bottom. In addition, the HM series mixer operation reduces unwanted surface aersols which helps control plant odor.

Cost Advantages. GloTech's optimal impeller design provices high efficiency mixing and aeration that reduces energy costs delivering mixing across a wide area. The low energy requirements translates directly to cost savings for the end user.

Maintenance Advantages. Very low maintenance requirements due to simple rugged design with few points of failure. High service life gears and bearings reduces potential downtime. No sensitive maintenance needed for submerged components, with the motor and gearbox easily accessible. Vertical self-centering installation reduces vibration stresses.

PRODUCT RANGE

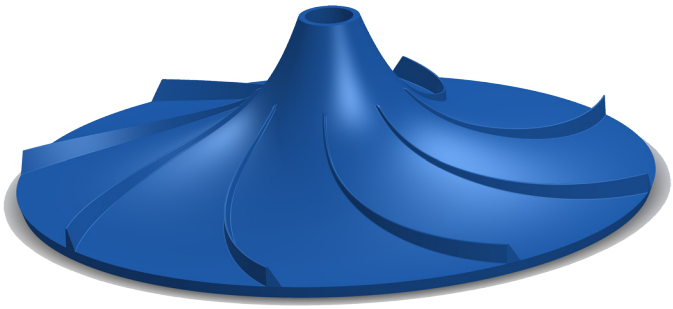
Mixer Sizes: 20" – 110" (500 – 2800)

Max. Flow: 90,000 gpm (20,000 m^3/h)

Max. Speed: 200 rpm

Max. Power: 10 hp (7.5 kW)

Max. Area: 72 ft (22 m)



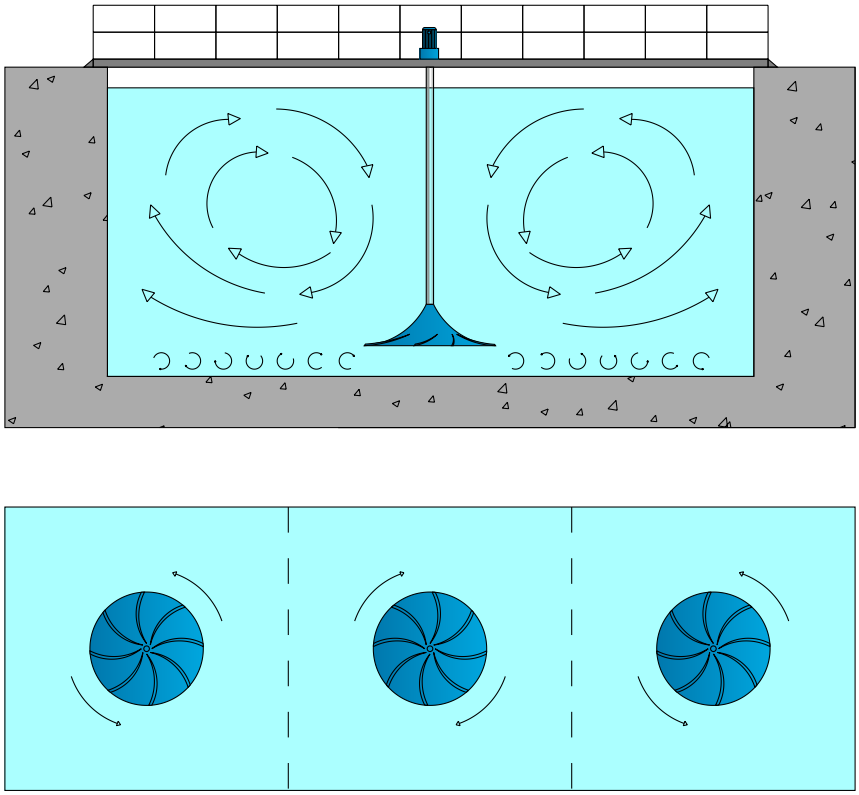
APPLICATIONS

- Equalization pond
- Precipitation tank
- Nitration/de-nitrification basin
- Sequencing batch reactor

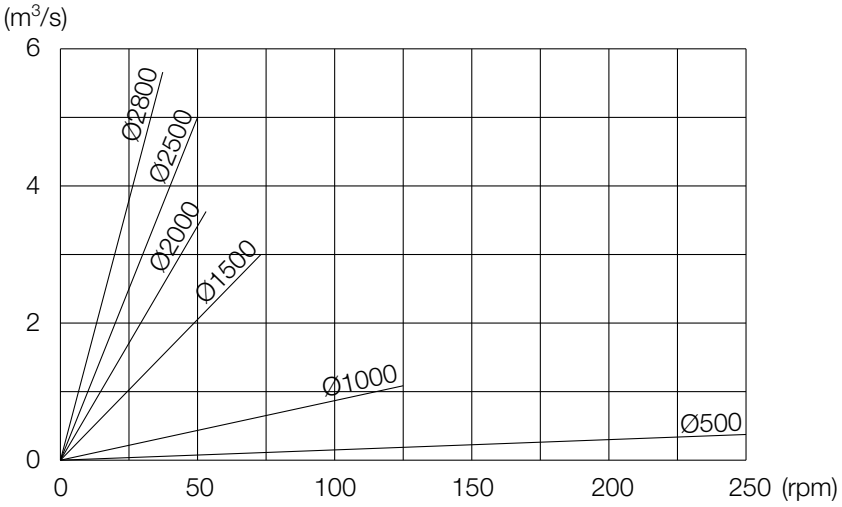
MATERIALS

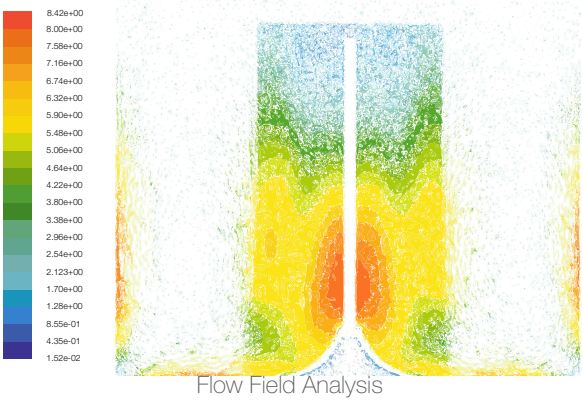
Part	Typical Material Options
Mixer	Fiberglass Reinforced Plastic
Shaft	Carbon Steel / Stainless Steel
Driver	Surface / Submersible Electric Motor

HYPERBOLOID MIXER OPERATING SCHEMATIC



HYPERBOLOID MIXER PERFORMANCE RANGE

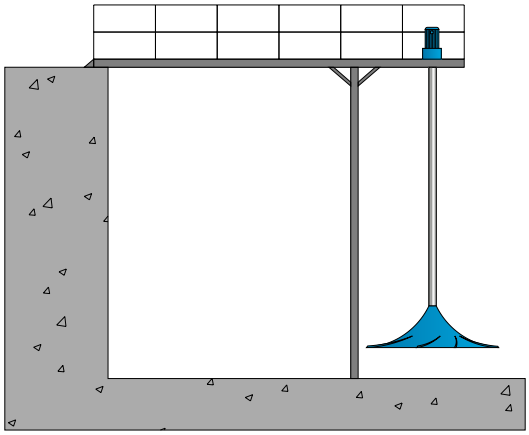




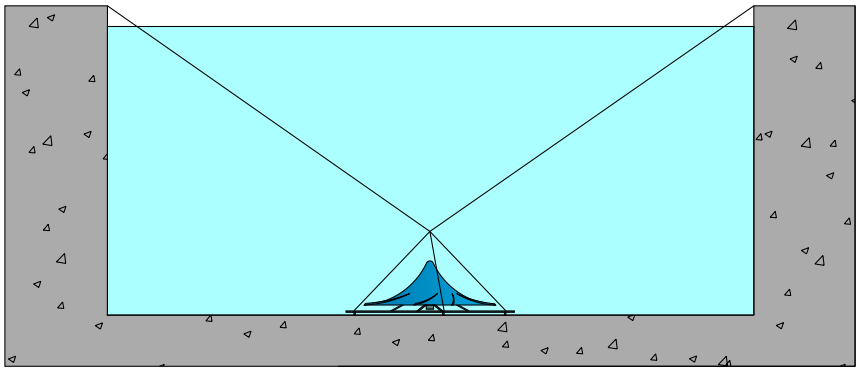
Flow Field Analysis

GloTech's hyperboloid mixers feature advanced design optimization for high performance and low energy consumption.

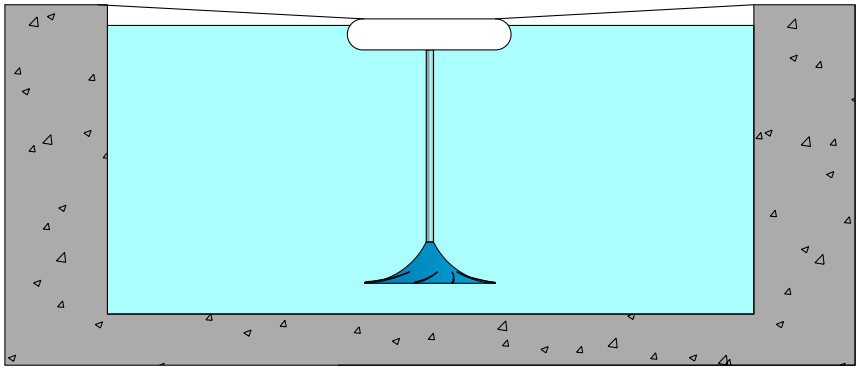
MIXER INSTALLATION CONFIGURATIONS



INSTALLATION 1



INSTALLATION 2



INSTALLATION 3

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