

HYDROLOIDE®

●●●● HYPERBOLOIDAL TOP-ENTRY AGITATOR

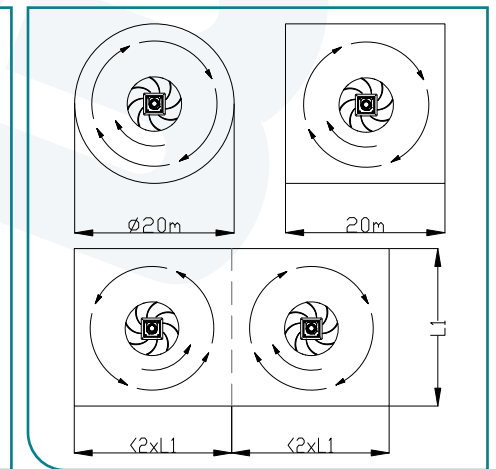
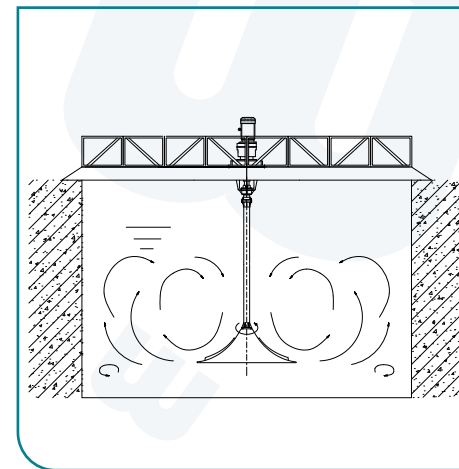
- Smooth surface and strong corrosion resistance
- Small resistance and high efficiency
- Submerged components are less prone to damage
- Reduce repair and maintenance cost

CHEMICAL INDUSTRIES

WATER TREATMENT

PAPER PAINT

Formed by the hyperbolic revolving around the central axis of the blade



► Working principle

• Scientific propeller design

- ✓ CFD fluid simulation technology
- ✓ Structural mechanics
- ✓ Material mechanics and other theoretical knowledge
- ✓ The hyperboloid with the impeller aims for achieving the perfect combination of fluid characteristics and mechanical motion

► Type selection

• For rational selection

The user is required to provide the following parameters

- ✓ Mixing purpose
- ✓ Tank shape
- ✓ Tank parameter
- ✓ Mixed product
- ✓ Viscosity and density
- ✓ Temperature, solid content and MLSS etc

► Mixing unit and layout

• The maximum width / diameter of a mixing unit is about 20m

- ✓ When the length of one side is not more than 20m, and the aspect ratio is not more than 2, a single agitator can be used
- ✓ The length of one side is more than 20m or the aspect ratio is greater than 2 it should be divided into two or more equal mixing unit

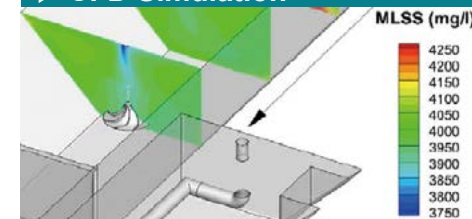
• For a tank with a diameter of no more than 20m

- ✓ A single hyperboloid agitator can be used

• The diameter or unilateral length is more than 20m

- ✓ Multiple agitators can be set according to requirements, and agitator arrangement is shown in the figure above

► CFD Simulation



► Application

- Sewage treatment anaerobic blending
- Homogenization blending in sewage treatment regulating tanks
- Reagent blending and coagulation in water treatment
- Denitrification mixing in SBR tank
- Anaerobic digestion mixing of sludge
- Mixing of sludge in homogenization tank
- Anaerobic dephosphorization and deoxygenation denitrification in sewage and A2 / O process



Application scenarios