HYDROLOIDE®

HYPERBOLOIDAL TOP-ENTRY AGITATOR

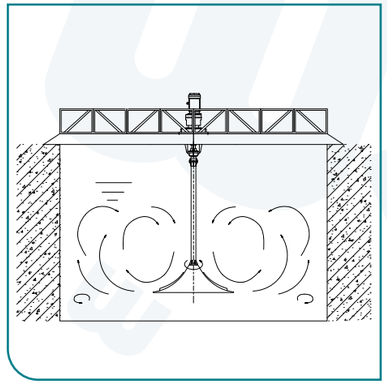
- Smooth surface and strong corrosion resistance
- Small resistance and high efficiency
- Submerged components are less prone to damage
- Reduce repair and maintenance cost

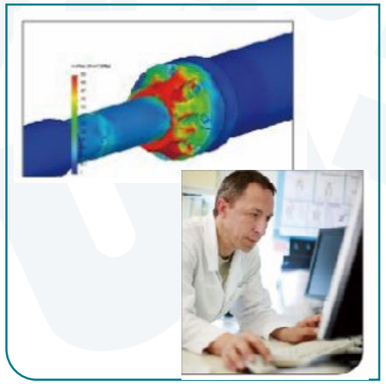
CHEMICAL INDUSTRIES

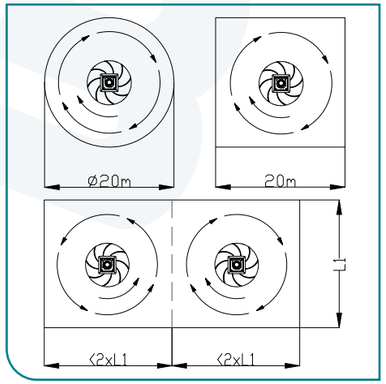
WATER TREATMENT

PAPER PAINT

Formed by the hyperbolic revoluing 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 to achieve 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**

√ The length of one side is not more than 20m, and the aspect ratio is not when it is larger 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

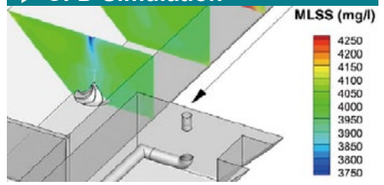
- **For a tank with a diameter of no more than 20m**

√ 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 homogenization tank
- Anaerobic phosphorus and deoxy-genation denitrification in sewage and A2 / O process

Application scenarios