



## SQJB双曲面搅拌机

### SQJB HYPERBOLOID MIXER

LANSHENG GROUP

#### ※ 基 座 Base

驱动部件固定在一个带有减震装置的基座上，用来消除设备运转时产生的震动，并能纠正由于水流产生的轴向力。

Drive components are fixed with a shock absorber on the base, to eliminate the vibration generated when the equipment operation, and to correct the axial force generated as water.

#### ※ 主 轴 Spindle

主轴是驱动部件与叶轮之间的连接件，经过校直和一次成形加工，保证其极好的直线度，根据用户需要，可采用碳钢重防腐、碳钢包玻璃钢和不锈钢材质等高强度耐腐蚀材料，以满足刚性和强度。

Impeller shaft is driven between the components and connectors, through the alignment and a forming process, to ensure its excellent linearity, according to user needs, can use heavy duty steel, glass, steel and stainless steel package high-strength corrosion-resistant material materials to meet the stiffness and strength.

#### ※ 叶 轮 Impeller

SQJB型双曲面搅拌机独特的叶轮结构设计，最大限度地将流体特性与机械运动完美地结合。双曲面叶轮表面的流线完全为切线组合，整个表面为绕传动轴中心旋转而成的双曲面体；为了迎合水体流动，设计从叶轮的中心进水，这一方面减少了进水流紊流，另一方面保证了液体对叶轮表面的压力均匀，有利于水的流动，减轻了整机运转中的振动，保证整机在运动状态下的平衡。在渐开双弧面上均布有导流叶片，借助液体自重压力作补充进水获得的势能与叶轮旋转时产生的离心力形成动能，液体在重力加速度的条件下沿叶轮圆周方向作切线运动，在池壁的反射作用下，形成自下而上地循环水流。正是由于双曲面搅拌机叶轮的结构特性和接近池底安装的特点，决定了它在工作中可获得理想的搅拌效果，形成均匀的全向推流，能有效地消除搅拌死角，达到理想的混合和搅拌效果。

SQJB unique dual impeller mixer surface structure design, to maximize the fluid properties and mechanical movement combines. Hyperboloid impeller surface flow line completely tangent portfolio, the entire surface of the center of rotation around the drive shaft made of double-curved surface; order to meet the water flow, the design center of water from the impeller, reducing water turbulence in this regard, On the other hand ensure that the liquid pressure on the impeller surface uniformity, favorable water flows, reducing the vibration machine in operation to ensure the machine in motion state of balance. Involute arc in both double cloth with guide vanes, the pressure to add weight with liquid water potential energy obtained with the impeller rotating centrifugal force generated by the formation of kinetic energy when the liquid under the conditions in the acceleration of gravity along the circumferential direction as the impeller tangential movement reflection in the pool wall under the action of the formation of circulating water flow from the bottom up. It is precisely because the structure of double-curved impeller mixer features and close to the bottom of the pool install, is determined by its work, get good stirring effect to form a uniform omni plug flow, can effectively eliminate Jiaoban dead, the desired Hunhe and mixing effects.

#### 设备特点 Features

双曲面搅拌机改变了常规搅拌机在搅拌池内的流速不均匀、存在搅拌死角、容积利用率较低的缺点，在池中产生均匀

的底部全向推流，无死角、无沉淀，且水面平静，无空气进入水中；搅拌叶轮外形完美，双曲面设计，采用非叶片结构，不会产生在搅拌机上挂带任何杂物，也不会产生纤维缠绕，故平时运行时不需进行任何的维护。

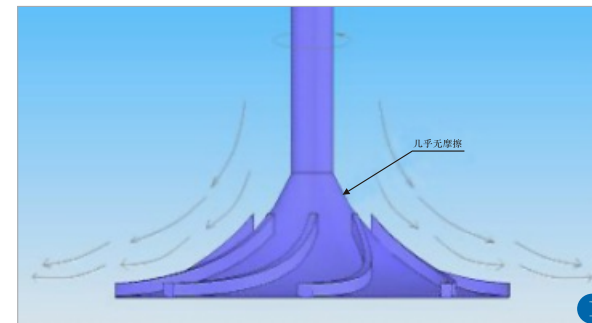
叶轮低转速、低磨损，抗腐蚀性好，故性能可靠，使用寿命长。与常规搅拌机相比，该大容量全向推流的双曲面搅拌机，能耗较低，搅拌1立方米污水一般只需要3~4瓦，节能达30%~50%。

Hyperboloid mixer to change mixer in the mixing tanks of conventional uniform velocity, there is mixing dead, the volume utilization is low, even in the bottom of the pool all to generate plug flow, no dead ends, no precipitation, and the water calm, no air into the water; mixing impeller perfect shape, double-surface design, use of non-leaf structure, does not produce any debris in the mixer to hang with, can not produce filament-wound, it usually runs without any maintenance.

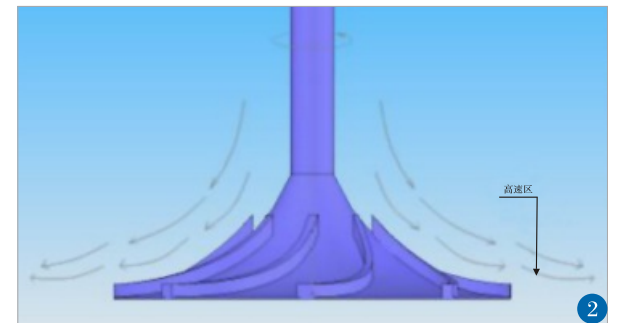
Low impeller speed, low wear, good corrosion resistance, so reliable, long service life. Compared with the conventional mixer, all to promote the flow of high-capacity dual-surface mixer, low energy consumption, mixing 1 cubic meter of sewage usually require only 3 to 4 watts, saving 30% to 50%.

双曲面搅拌机与其它搅拌设备相比的不同之处在于：

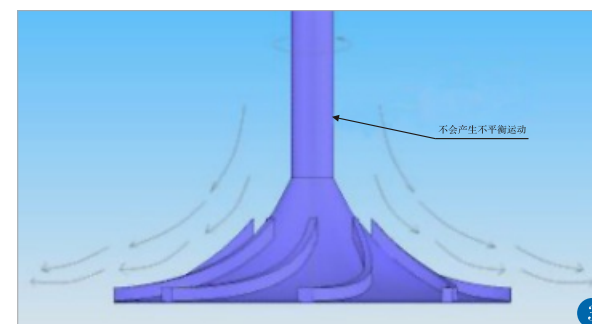
Hyperboloid mixer and mixing equipment other than the difference is:



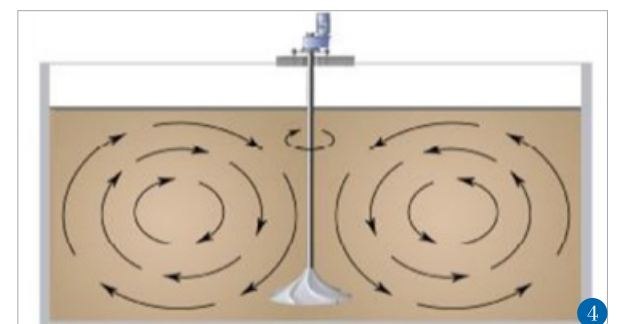
1. 由于流体条件趋于理想，所以能耗较低。
1. As conditions become ideal fluid, so the lower energy consumption.



2. 由于整个池内水流流速高，所以污泥不会有污泥沉淀。
2. As the entire pool of high flow velocity, so there will be no sludge settling sludge.



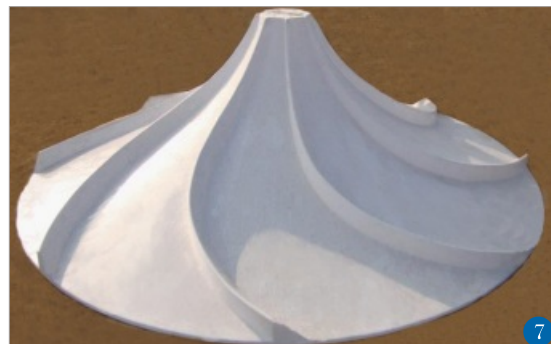
3. 搅拌器运行时能自我纠位，可以确保向下力垂直，从而防止不平衡运动。
3. Stirrer run self-correcting bits, you can ensure that the downward vertical force, to prevent uneven movement.



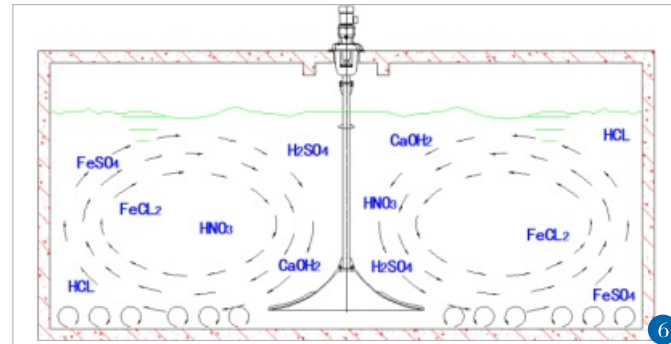
4. 全向推流，池内各区都能被均匀搅拌，不会产生死角。
4. All the plug-flow, the pool can be evenly mixed district will not result in dead ends.



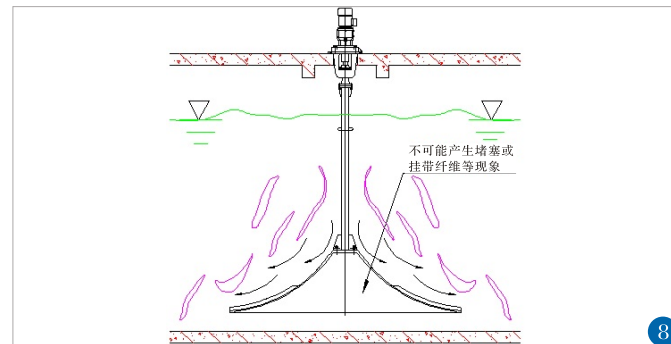
5. 水下无易损耗件，可简单方便地到达减速电机进行维护。
5. Underwater without perishable items can be simple and easy access to the gear motor for maintenance.



7. 整体精致完美。不断地改进确保了极其长久的使用寿命和坚固耐用的质量。
7. Overall exquisite perfection. Continuous improvement to ensure an extremely long life and rugged quality.



6. 不使用易锈蚀的材料，搅拌圆盘及搅拌轴均使用高级耐防腐材料。
6. Do not use an e-corrosion materials, mixing and stirring shaft disc are using advanced anti-corrosion material.



8. 不会堵塞。与水平推流式搅拌器不同，不会在搅拌主体上挂带任何物质。
8. Will not be blocked. And horizontal plug-flow mixers, would not hang in the main mixing with any substance.

## 设备用途

### Equipment use

SQJB型双曲面搅拌机适用于环保、化工、能源、轻工等行业需要对液体与液体、液体与固体、液体与气体的搅拌、混合的场合，尤其特别适用于污水处理工程、净水工程中的搅拌，具体如下：

SQJB double surface mixer suitable for environmental protection, chemicals, energy, light industry needs to liquid and liquid, liquid and solid, liquid and gas mixing, a mixture of occasions, particularly suitable for sewage treatment projects, water project mixing, as follows:

1. 调节池搅拌：用于污水处理工程中调节峰量和峰载的调节池，目的在于均质搅拌，典型应用于工业项目中，如酿酒厂、印染厂、造纸厂等。

1. Adjustment pool mixing: adjustment for sewage treatment project in peak capacity and peak out in regulation pool, intended to homogeneous mixing, typically used in industrial projects, such as breweries, dye houses, paper mills and so on.



2. 混合及混凝搅拌：用于水处理中药剂的溶药搅拌及药剂与水的混凝搅拌；即：若运行工艺需要额外的化学处理的场合，如投加石灰或其它污水处理药剂。

2. Mixing and flocculation stirring: for water soluble drugs in pharmaceutical agents and water mixing and flocculation stirring; that is: if the running process requires additional chemical treatment of the occasion, such as adding lime or other water treatment agents.



3. 消毒搅拌：用于水处理中液氯及其它消毒药剂与水的接触搅拌；作用是提高液氯与污水的混合程度。

3. Disinfection mixing: liquid chlorine for water treatment and other chemical treatments and water contact mixing; role is to improve the level of chlorine mixed with sewage.

