

CONCENTRATED SULFURIC ACID SUBMERGED PUMPS

JHB



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JHB sulfuric acid pumps are designed and manufactured for sulfur chemistry applications. They are submerged vertical centrifugal pumps, which have been proved in market for years by their outstanding achievements.



- Less maintenance
- Less power consumption
- More reliable performance

APPLICATION

- To be widely used in drying and absorption circulation system of sulfuric acid plant.
- To pump 93%-98% concentrated sulfuric acid.
- To pump oleum above 10.5%.
- To pump concentrated sulfuric acid and oleum in high temperature up to 120°C.
- To pump waste water in sewage disposal system with capacity up to 1000 m³/h.

KEY CHARACTERISTICS

Capacity	up to 3200m ³ /h (14000 GPM)
Head	up to 55m (180 feet), with single impeller up to 210m (670 feet), with two impellers
Pressure	up to 1.6Mpa , with single impeller up to 2.5MPa, with two impellers
Temperature	up to 120°C (248 F)
Standard setting length	up to 3.6 meter (12 feet)

PUMP DESIGNATION

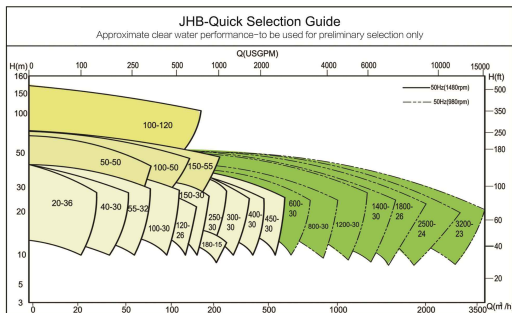
JHB XXX - XX

Head in meter

Capacity in m³/h

JHB concentrated sulfuric acid pump series

SELECTION CHART



APPLICATION CASES

We offer sulfuric acid pumping solutions worldwide. Pump units have been operated across the globe, including Vietnam, South Korea, Egypt, Papua New Guinea, Congo, Turkey, Iran, India, Jordan, Zambia, Malaysia and etc. For examples:



JHB pumps are operating in flue-process at a sulfuric acid plant in Philippines.
Capacity: 2400 m³/h
Head: 25 m



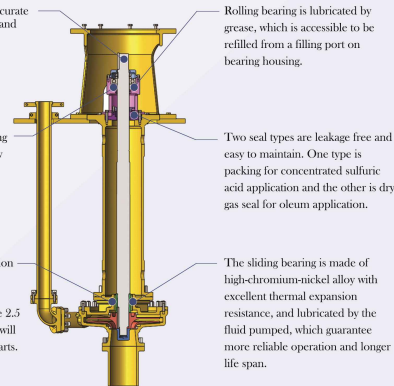
JHB pumps are operating in flue-process at a sulfuric acid plant in Zambia.
Capacity: 1600 m³/h
Head: 25 m

STRUCTURAL FEATURES

Grid coupling with features of accurate alignment, vibration absorption, and Convenience of installation and service.

Double-support structure at driving side, equipped with a double-row angular contact ball bearing to balance axial force.

Double-support structure at suction side, equipped with one sliding bearing to balance radial load. When suspended length is above 2.5 meter, multiple journal bearings will be used to support submerged parts.



Rolling bearing is lubricated by grease, which is accessible to be refilled from a filling port on bearing housing.

Two seal types are leakage free and easy to maintain. One type is packing for concentrated sulfuric acid application and the other is dry gas seal for oleum application.

The sliding bearing is made of high-chromium-nickel alloy with excellent thermal expansion resistance, and lubricated by the fluid pumped, which guarantee more reliable operation and longer life span.

Patented special alloy for wetted parts

Single stage, single suction
Axially sucking, radially split
Vertically suspended
Single casing

