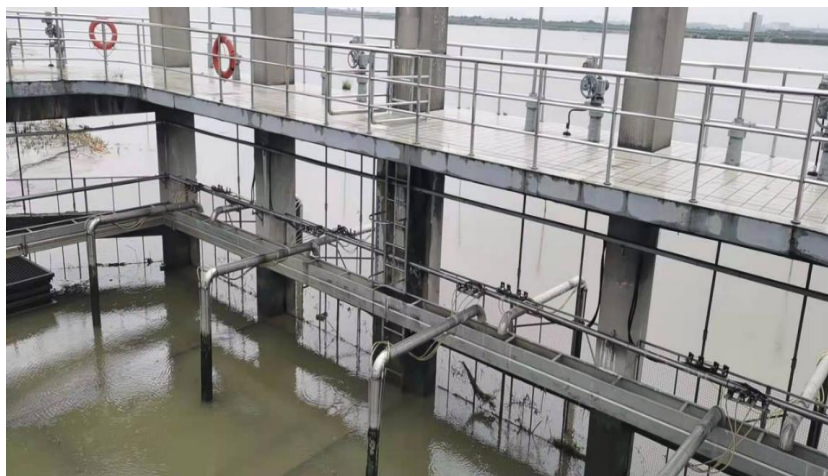




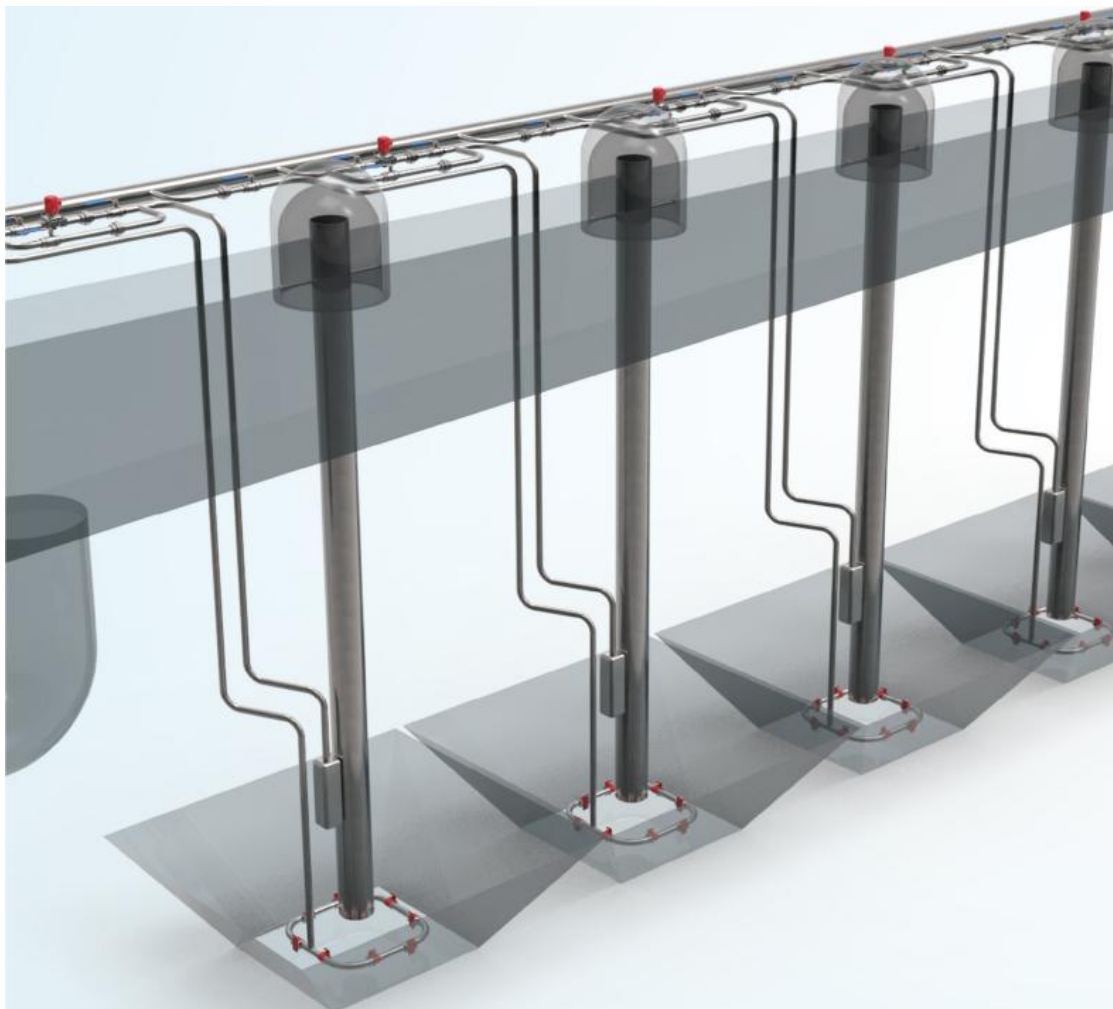
HIGH EFFICIENCY SLUDGE/SAND REMOVAL SYSTEM USING EJECTOR & AGITATOR POWERED BY COMPRESSED AIR

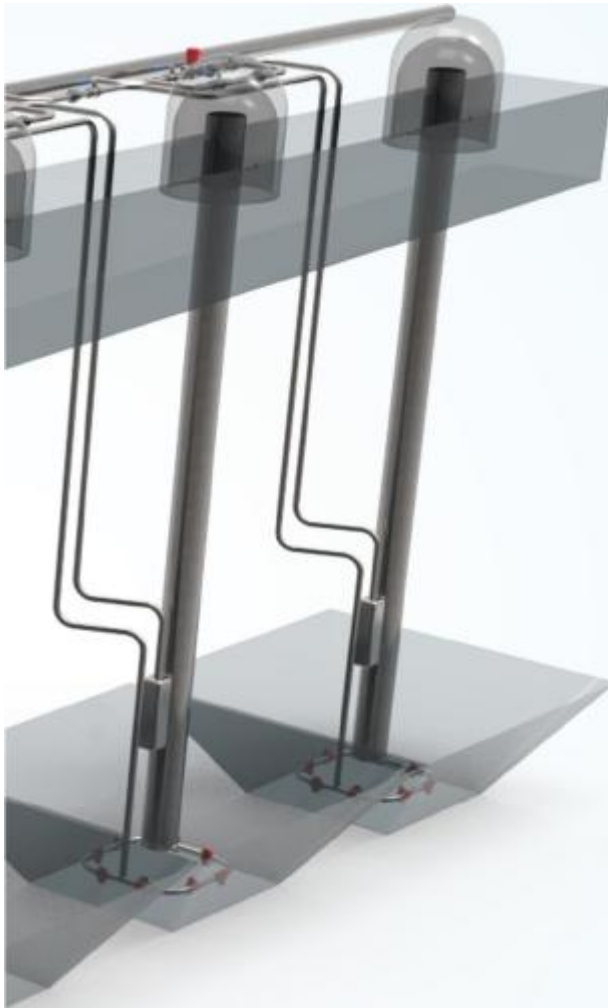
JV8100 Series



Introduction

The JV8100 Series sludge/sand removal system is designed and developed in response to a) the common problems found in the sludge removal system such as the limited and low static head made available for the hydrostatic discharge and the uneven sludge compaction in the collection hoppers with no sludge agitation, and b) the common problem found in the sand removal system such as the ineffectiveness of the conventional sand ejector having restrictive sand agitation. The JV8100 system can also be retrofitted to the existing sedimentation tanks and river intake hoppers. It is able to handle high sludge concentration, with low water wastage, not limited by the depth of the tanks and no wear and tear parts underwater.





Equipment Features

- Simple structure and zero maintenance under water
- High sludge concentration removal and low water wastage
- Flexible layout, can be operated individually or multiple discharge
- Patented agitator device to resolve compaction problem and to enhance agitation for effective extraction

Technical parameters

Sludge characteristics | Suitable with most sludge with solid content of 0.5%~8%, able to deal with sludge compaction problem

Sand slurry characteristics | Effective agitation of sand slurry for easy extraction and discharge

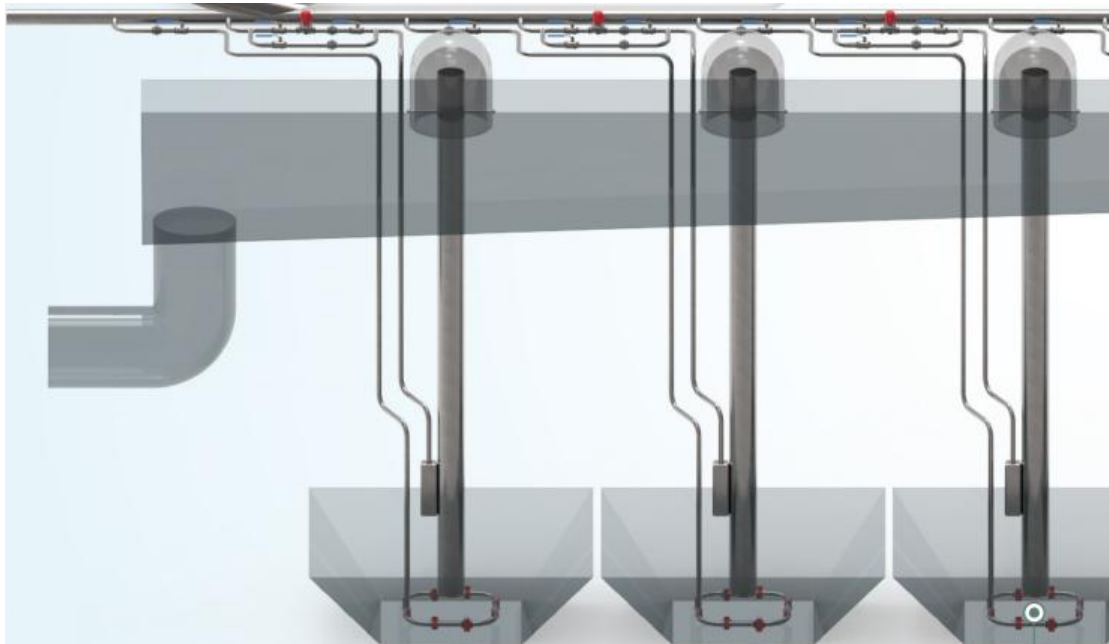
Basic operating principles

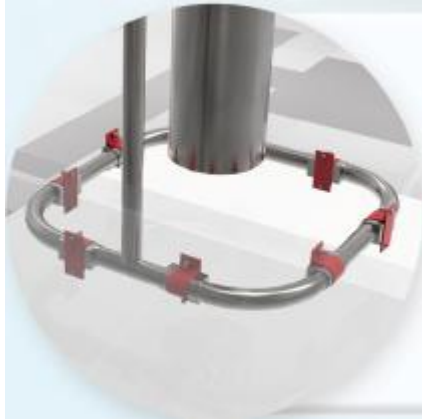
High pressure compressed air from the air compressor enters the air tank which is connected to the air supply pipes and the patented nozzle outlets. A section of air is then formed in the discharge riser pipe and floats up, thereby extracting the bottom sludge/sand into the discharge riser pipe using the ejector and ejecting the water/air/solids upwards for external disposal via gravity channel or pipe.



Solenoid valve and manual control valve

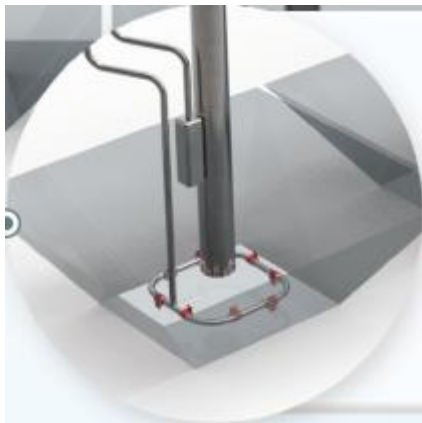
Equipped with control valves according to the needs, can be left unattended for 24 hours operation with fully automatic PLC control solenoid valves.





Patented compressed air flow agitating device

Through the patented design of the nozzle and layout, compressed air is used to disperse and stir, effectively solving the sludge/sand compaction problem at the hoppers before it is being extracted for external disposal.



Hopper details

The size and number of hoppers are designed according to different sludge/sand volume requirements. Based on accumulated data and sludge/sand discharge experiences, the patented compressed air agitation and ejector system can achieve a maximum sludge discharge concentration of up to 8%.

Compressed air power and PLC control system

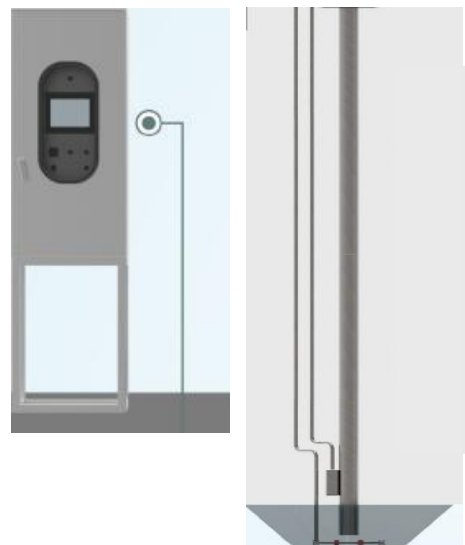


Air compressor and air tank

The sludge/sand removal system is powered by high pressure compressed air. An air compressor, air tank, pressure regulator and air supply pipes with suitable pressure rating will need to be installed on the floor level or in the control room. The compressed air system is highly practical in application and suitable for any site condition and different usage.

Control cabinet

PLC touch screen control is adopted which can be integrated with the existing equipment, making it easier operator to set and modify the operating parameters. operation interface with existing SCADA system can incorporated.



Track records in CHINA



Longbridg, Shanghai



Baotou, Inner Mongolia



Jiaxing, Zhejiang



Shangyu, Shaoxing



Huzhou, Zhejiang



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