

KATERA STEEL OY

CONTRACT MANUFACTURING – SUBCONTRACTING – STEEL STRUCTURES - INSTALLATIONS

PUMPING STATIONS AND OTHER FLOATING STEEL PONTOON STRUCTURES FOR THE NEEDS OF MINING AND PROCESS INDUSTRY

For decades, Katera Steel Oy have been manufacturing floating pontoon structures for a wide range of purposes (eg docks, bridges and pontoon guides, eg. for the needs of the forest industry). By combining an isolated equipment container and a steel pontoon bridge, a highly efficient process water pond pumping station is established. By following the turnkey delivery principles, we manufacture the right-sized stations and floats which meet the needs of our customers. On request, we can also install the station to its final destination (also in the winter). In principle, the floats can be made in whatever size. Our ISO 9001-2015 to EN 1090 certifications ensure the top quality work and service.

A pumping station is sturdy anchored to the ground and to the bottom of the pond

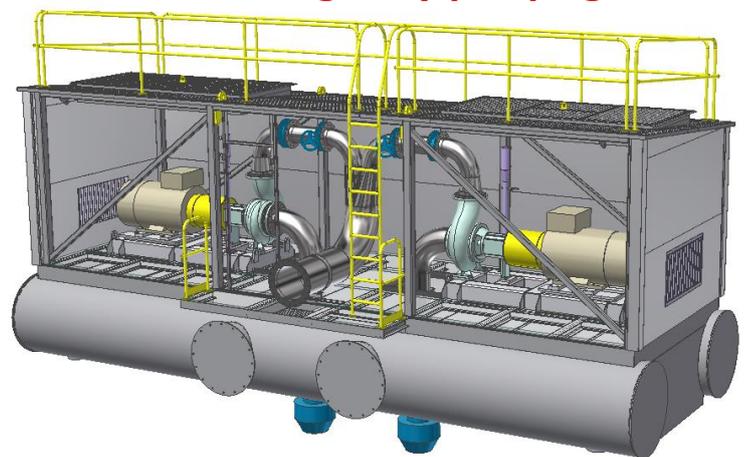
A Katera Steel Oy floating pumping station consists of a float itself, a front ferry and a pivotably joined footbridge leading to dry land on the bank of the pond. The ferry is fastened from the top of the walkway to a solid concrete slab cast on the bank of the pond. The pressure pipeline of the pumps is also hinged on middle of the walkway. The ferry is anchored to the bottom of the pond by heavy concrete anchors, which are fixed to pontoons by the help of the strong chains.

The ferry follows the variation of the pond water level

The chains allow the ferry to follow the variation of the water level of the pond (depending on the length of the walkaway even more than ± 5 m water level variation is possible). Thanks to flexible rubber structure, the pressure pipeline up to the ground works perfectly in all water levels. When there is ice in the pond, the frost protection pumps to be located around the ferry keep water as a melt and the ferry can follow the water level variations.



Replace your troublesome submersible pump station with a floating ferry pumping station !



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Very ingenious structure guarantees long life time and an excellent pumping capacity

Pontoons are made from spiral seamed pipe and they are also fully pressure tested. Whole the frame of the pumping station is made of steel and the container is fixed straight to pontoons by welding. This means that the station is very strong to carry any kind of loads and can be lifted as complete unit up and be moved for example to another pond. Thanks to heavy structure and special pontoon surface treatment the lifetime of the pumping station is tens of years. Even 3000 m³ /h pumping capacity with 2 – 4 pcs of pumps can be reached.

Inside the container a lot of room for effective maintenance work

Inside the container there is a lot of clean and safe room for service operations. Pumps are equipped with a compressor assisted ejector system which fills the suction line before the restart. So the cavitation will be prevented completely.



The pumping station is available as an insulated or as an uninsulated version

Depending on the needs of the customer the container can be equipped with insulation or not. For cold conditions there are available heating systems and for hot conditions an effective ventilation.

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WHEN YOUR NEED IS STEEL, WE WILL CARRY IT OUT!



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