

## Danube power plant, Asten, Austria

### The project:

Installation of a drain pump for the turbine inspection chamber.

### Executing companies:

Verbund Austrian Hydro Power AG  
Sonnek Engineering GmbH (Tsurumi partner)

### The problem:

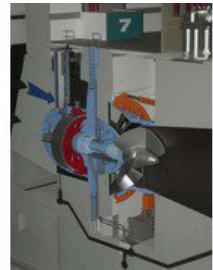
For inspection work the turbine must be completely drained at the intake and discharge including the headrace tunnel. New turbines are integrated in the collector shaft. Depending on the inspection cycle, the unfiltered water from the Danube must be pumped away there.

Pump requirement: 300m<sup>3</sup> /h at 3bar. Until now clean water submersible pumps were implemented which were always at risk of silting.

### The solution:

Implementation of a type LH845 high-pressure pump with a 45kW rating. This conveys the existing pressure line at a pressure of 2.8bar 5m<sup>3</sup> /min.

Tsurumi contractors' pumps are perfectly suited for dirty media which means that they can also be operated after flooding (extreme silting).



### Specifications LH: <https://www.tsurumi.eu/en-LV/lh>

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. With regards to the above application wear and tear can take place mainly in impeller, agitator, suction plate, shaft sleeve, oil ring, mechanical seal, pump casing, strainer, motor casing and discharge coupling. Depending on the working conditions the lifetime of those parts might vary significantly and can be shorter than the legal warranty period.

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