

## Groundwater tanks on B23 Saulgrub, Germany

### The project:

City bypass for federal road B23 - 450m groundwater tank through the Saulgrub upland moor between Saulgrub and Unterammergau.

### Executing company:

HOCHTIEF Infrastructure GmbH, Southeast Germany branch

### Tsurumi consultants:

Mr. Christian Kulik (External sales force Bavaria)

### The problem:

During implementation of the Saulgrub bypass, a 450m section of federal road B23 had to be taken through an underpass under the Murnau-Oberammergau railway. The area is permanently underwater, and ground and strata water also entered. Water retention using well pumps is essential.

### The solution:

Open water retention using small, single-phase model HS2.75S wastewater pumps, controlled by float switches. Three-phase model KTV2-15 and KTV2-22 wastewater pumps run in 24-hour sip operation.



**Specifications HS:** <https://www.tsurumi.eu/it-CH/hs>

**Specifications KTV:** <https://www.tsurumi.eu/it-CH/ktv>

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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