

ICE railway track Airport Cologne-Bonn

The project:

Underground railway track for linking Cologne-Bonn airport

Executing companies:

Consortium Flughafenanbindung

Köln/Bonn Los3

E. Heitkamp GmbH

Wayss & Freytag Ingenieurbau GmbH

Bauer Spezialtiefbau GmbH

F.C. Trapp AG

Dewatering with 24-h pump duty by:

Smet GWT N.V., Dessel, Belgium

Biergans Pumpen-Vertrieb GmbH, Duisburg

The problem:

Pumping off the water arising during underground tunnel heading, lowering the ground water level over a large area.

Our solution:

Deep wells were built in the area in which submersible waste water pump were installed. This allowed to lower the ground-water table to the lowest possible level.

Specifications KTZ: <https://www.tsurumi.eu/en-LV/ktz>

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

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.

In this regard, please pay attention to our [general terms and conditions](#) that we also send to you by mail on request.



Tunnel entrance
Hermann-Lönsstraße, 1st section of
excavation.



KTZ32.2 for sludge pumping



Support of the drain line by a pipe
bridge, 2nd section of excavation.



View into the tunnel, 3rd section of
excavation.



Water drainage with KTZ23.7 on
snore mode.

