



Press Release

HERRENKNECHT Breakthrough on the pipeline construction site in Kehl

March 21, 2024

Kehl, Germany

Gotthard, Shanghai, Sydney - Herrenknecht supplies large tunnel boring machines (TBMs) for the world's largest infrastructure projects. But also for a pipeline underpass under the B28 and the Kinzig near Kehl, Germany was reached. It is part of an important north-south axis for natural gas in Europe.

_____ At the beginning of March, the good news came from the Trans Europa Naturgas Pipeline (TENP) project: the breakthrough for a pipeline underpass near Kehl, close to the quarry pond in the district of Kork. There, the construction company Sonntag built a 331-meter-long tunnel with an internal diameter of 1.40 meters to pass under the B28 main road and the Kinzig river. This tunnel serves as a protective pipe for laying the pipeline and made it possible to fully maintain traffic on this busy section of the B28. Thanks to the use of trenchless tunnelling technology, the road did not have to be torn up and the course of the Kinzig remained untouched.

The pipe jacking was carried out by a so-called AVN machine from Herrenknecht. This type of machine has already been in use for decades for numerous infrastructure projects for the construction of supply and disposal lines in a wide variety of geologies worldwide. Unlike the large-diameter machines used for the Brenner Base Tunnel, for example, the pipe jacking method does not involve assembling tunnel rings from concrete segments behind the tunnel boring machine, but rather pushing prefabricated concrete pipes forward through the ground from the launch shaft. The existing geology is excavated with a drill head, mixed with drilling fluid and transported to the surface via the machine using pumps.

The project met with great interest from the local population. Groups of visitors came to the construction site several times during the course of the project. The drilling work went smoothly and lasted around two weeks.

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Project Data

Gas pipeline crossing under the B28 and Kinzig

MACHINE/PROJECT DATA M-1938M

Machine type: AVN1200

- › Diameter: 1.720 mm
- › Cutterhead drive power: 132 kW
- › Tunnel length: 331 m
- › Geology: gravel, sand
- › Client: SONNTAG Baugesellschaft mbH & Co. KG
- › Project owner: Trans Europe Nature Gas Pipeline, Open Grid Europe

Photos



Photo 1

The breakthrough of the AVN1200 in the target shaft.



Photo 2

The view into the tunnel from the starting shaft.

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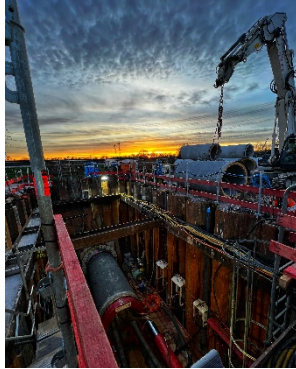


Photo 3

The construction site in Kehl near the Kork quarry pond. A concrete pipe can be seen in the starting shaft. At the top, ready to be lifted in, are more prefabricated concrete pipes that are being pushed forward behind the machine.

For further information: Please contact us.

Herrenknecht AG

Herrenknecht AG is the only company worldwide to deliver tunnel boring machines for all geologies and in all diameters – ranging from 0.10 to 19 meters. The product range comprises tailor-made machines for traffic, supply and disposal tunnels, technologies for pipeline installation as well as additional equipment and service packages. Herrenknecht also manufactures drilling equipment for vertical and inclined shafts as well as deep drilling rigs.

In 2022 the Herrenknecht Group achieved total output of 1,232 million euros. The independent family business employs about 5,000 people worldwide, including approximately 200 apprentices and trainees. With around 70 domestic and overseas subsidiaries and associated companies working in related fields, Herrenknecht provides comprehensive, fast and targeted services close to each project and contractor.

› <http://www.herrenknecht.com/en/references>

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