



Press Release

HERRENKNECHT

Seventh tunnel boring machine handed over for the record-breaking Brenner project

March 8, 2024

Schwanau, Germany

Once completed, the Brenner Base Tunnel (BBT) - with a total length of 64 km - will be the longest underground rail link in the world. Herrenknecht is delivering eight tunnel boring machines for the construction of the new transalpine rail link between Austria and Italy. On Thursday, March 7, 2024, the seventh tunnel boring machine was presented to the customer and client in Schwanau.

_____ On behalf of Brenner Basistunnel BBT SE (BBT), the project operator for the transalpine rail link, construction consortia are building two tunnel tubes and a continuous exploratory tunnel in various construction lots. Herrenknecht has now presented the first of two Double Shield tunnel boring machines for construction lot H53 Pfons-Brenner. The consortium of the companies PORR and MARTI will use them to excavate 7,500 meters of tunnel in the direction of Innsbruck. The Austrian and Swiss tunnel construction specialists of the H53 Pfons-Brenner Base Tunnel consortium ordered a Double Shield tunnel boring machine (TBM) from Herrenknecht for this purpose. "The Brenner Base Tunnel is a project of the century and also extremely challenging from a technical point of view. H53 Pfons-Brenner is the largest construction lot in Austria", says PORR CEO Karl-Heinz Strauss.

Double Shield TBMs are among the most technically sophisticated tunnel boring machines. They combine the functional principles of Gripper and Single Shield TBMs in one machine. This powerful technology is therefore predestined for driving long tunnels in hard rock. Bernhard Kuderer, Project Manager at Herrenknecht, emphasizes: "In close cooperation with the consortium, we are providing tailor-made solutions for the complex geological requirements of this project."

The new Herrenknecht Double Shield for the Brenner Base Tunnel has a diameter of 10,370 millimetres, a length of around 183 meters and weighs a total of around 2,700 tons (both figures include the back-up). Transportation of the first parts of the machine from the Herrenknecht factory in Schwanau to Austria is expected to start at the end

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of March. The machine will then be reassembled in the assembly cavern. Tunnelling is scheduled to begin in fall 2024. The eighth, identical Double Shield TBM for driving the second tunnel tube in lot H53 Pfons-Brenner is also currently being built at the Herrenknecht plant in Schwanau and will be delivered in spring.

The Brenner Base Tunnel, which is designed as a flat track and runs almost horizontally, forms the core of the new Brenner line between Munich and Verona. It will lead to a significant improvement in travel and transport options on one of Europe's central transport axes and help to shift freight traffic in the Alpine region to rail.

PROJECT DATA VIENNA METRO LINE 2

- › Client: Brenner Basistunnel BBT SE (BBT)
- › Contractors: ARGE H53 BBT (Porr Bau GmbH, Marti GmbH Österreich und der Marti Tunnel AG Schweiz)
- › Application: Railway
- › Drive length: 7,500 m

MACHINE DATA

- › Machine type: Double Shield TBM
 - › Diameter: 1 x 10,370 mm
 - › Cutterhead drive power: 4,550 kW
 - › Torque (max.): 15,000 kNm
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Photos



Photo 1

Machine acceptance: Martin Herrenknecht with representatives of the client and customers.

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**Photo 2**

The Herrenknecht Double Shield for the H53 Pfons-Brenner construction lot will drive 7.5 kilometers of the Brenner Base Tunnel.

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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