

## Press release

January 30, 2025

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### **Gigantic dimensions: Bauer Spezialtiefbau executes XXL diaphragm wall shaft in Slovenia**

- Construction of LILW repository in Krško, Slovenia as strategic project of national importance
- XXL diaphragm wall: Using MC duty-cycle cranes, Bauer Spezialtiefbau constructs shaft 65 m deep
- Digital tools and lean management for quality and sustainability in construction work

**Krško, Slovenia** – How to dispose of waste? This question is not only the subject of discussion on a small scale, but also represents a challenge at the national level – especially when it comes to radioactive waste. The town of Krško in eastern Slovenia is the focus of a major project: the construction of a repository for low- and intermediate-level radioactive waste. The Slovenian Agency for Radioactive Waste Management (ARAO) has tasked a consortium led by Riko d.o.o. of Ljubljana, together with Kolektor CPG of Nova Gorica, CGP of Novo mesto and Kostak d.d. of Krško, to carry out the construction work. Trial operation of the facility is planned in 2028.

#### **6,500 m<sup>2</sup> of diaphragm wall installed up to depth of 65 m**

A key component of the project is the circular diaphragm wall shaft that was constructed by BAUER Spezialtiefbau GmbH. With a diameter of 32 m, a depth of 65 m and a wall thickness of 1.5 m, the structure extends over an impressive area of 6,500 m<sup>2</sup>. To achieve this challenging task, the specialist foundation engineering experts used a BAUER MC 96 duty-cycle crane with a BC 48 trench cutter and an MC 64 with hydraulic grab DHG/V. Also employed: the BAUER Cutter Inclination System (CIS)<sup>®</sup> for precise positioning of the diaphragm walls, as well as the Hydraulic Grab Inclination System (HGIS)<sup>®</sup> for continuous monitoring and control of the hydraulic grab.

#### **Digital tools for sustainability and quality**

In order to manage the complexity of this large-scale project, the experienced team used digital tools for process optimization and lean management, key elements of the BAUER Construction Process. Thanks to detailed engineering, control and monitoring of all construction phases, it was possible to maintain optimal use of resources and the highest quality standards. “With our technology and decades of expertise, we are setting standards for geotechnical precision. By using our thoroughly tried-and-tested diaphragm wall equipment on the one hand, and advanced digital systems on the other, we are able to meet even the strictest accuracy requirements while ensuring optimally sustainable design,” explains Project Manager Stefan Neidhart.

Right from the start of diaphragm wall work on October 1, 2024, the crew from Bauer Spezialtiefbau showed full commitment. “Thanks to our dedicated team and state-of-the-art technologies, we have made a crucial contribution to this major project,” explains the project manager. The construction of the diaphragm walls was successfully completed in December 2024.

**Video:** Experience the site first hand – And action:  
[https://www.youtube.com/watch?v=rXlyi\\_erJag](https://www.youtube.com/watch?v=rXlyi_erJag)

**Photos:** pressebilder-press-images-krsko-slovenia-diaphragm-wall-shaft-bauer-spezialtiefbau...



(1) Over an impressive area of 6,500 m<sup>2</sup>, the experts from Bauer Spezialtiefbau constructed a shaft 32 m wide and 65 m deep.



(2) Among other equipment, a BAUER MC 96 duty-cycle crane with BC 48 trench cutter was used for this challenging work.



(3) The BAUER Cutter Inclination System (CIS)<sup>®</sup> ensures precise positioning of the diaphragm walls.

All images: © BAUER Group

### **About BAUER Spezialtiefbau Group**

BAUER Spezialtiefbau GmbH, the original parent company of the BAUER Group, has been a major driving force in the development of specialist foundation engineering. It carries out all of the customary processes of foundation engineering, primarily for excavation pits, foundations, cut-off walls and ground improvements on a worldwide basis. In doing so, BAUER Spezialtiefbau GmbH works closely together with their subsidiaries and branches across the globe. Regional networks around the world allow for the quick and flexible application of machines, teams and expertise. Bauer Spezialtiefbau offers their customers individual, creative and economical specialist foundation engineering solutions for demanding construction projects, from planning through to execution. More at <https://geotechnical-solutions.bauer.de/en>.

### **About Bauer**

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. The Group can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Geotechnical Solutions, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2023, it employed about 12,000 people and achieved total Group revenues of EUR 1.8 billion worldwide. More information can be found at <https://www.bauer.de/en>. Follow us on [Facebook](#), [LinkedIn](#), [Instagram](#) and [YouTube](#)!