

Specialist Press Release

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A world first: BAUER Maschinen GmbH presents innovative BAUER Cube System

Schrobenhausen, Germany – As part of its “BAU ERLEBEN” days, BAUER Maschinen GmbH presented in early July a true global innovation that will open up entirely new opportunities for the future construction of diaphragm walls: the BAUER Cube System.

This innovative cutting system was developed in collaboration with a strategic partner, the Belgian tunnel construction expert Denys. “It is designed as an electrically powered cutting system which builds on a great deal of proven expertise from Bauer but features an entirely new construction,” explains Dr. Ruediger Kaub, Managing Director of BAUER Maschinen GmbH. What makes it unique: The entire system was developed precisely in container dimensions. This means it can be used without any problem in microtunnels with small diameters of just 3.8 m, for example.

A range of applications

“Imagine you are planning a new subway line in a densely populated city. Ideally, you want to plan the new line to allow passengers to get on and off exactly where they want to go. This means that the new subway stations need to be located exactly where there are large office complexes, a large shopping center or the city center. But precisely in such locations, it would be very difficult or even impossible to build these subway stations with the technology available to date. It is now possible thanks to our BAUER Cube System, which can be used exactly where the new subway stations need to be constructed: Underground, below the existing buildings! This opens up entirely new opportunities for designers and architects,” says Ruediger Kaub. Underground expansion of cities, setting up drinking water storage, or transferring cloud servers below ground along with the necessary cooling technology are all conceivable applications. “All these examples demonstrate the enormous potential of our Cube System,” continues Ruediger Kaub.

A thoroughly sustainable system

The advantages of the system are evident: The impact of construction sites on traffic, businesses and residents (in particular) are minimized. This is because the minimally invasive Cube System only requires a comparatively small access point to an existing microtunnel or auxiliary tunnel. The actual work is carried out underground, essentially invisibly. The electric drive system also considerably reduces the ecological disturbance of a cutting site. When it comes to logistics as well, the system’s compact dimensions are a major advantage: Instead of expensive heavy haulage, the individual elements of the BAUER Cube System are easily transported to their place of deployment as conventional containers. As a result, the BAUER Cube System also sets new standards when it comes to sustainability.

Constructive collaboration during the development process

“Last but not least, I would particularly like to emphasize the trusting and highly constructive collaboration with our strategic partner Denys as well as our specialists within the Group,” says Ruediger Kaub. “During the development phase, this collaboration delivered crucial input that allowed us to examine nearly every aspect of process engineering, mechanical engineering, logistics or external influences on the site in advance. Based on this research, many ideas were incorporated into the system at an early stage of development.”

The first successful tests of the prototype under the most realistic conditions possible have already been carried out on the Bauer plant grounds in Aresing near the company headquarters in Schrobenhausen, Germany. This test phase will continue for the next four to six months, which in principle means that an anticipated practical application will be possible towards the end of 2021. “One thing is already clear: With this development, we are once again demonstrating the innovative power of Bauer,” says Dr. Ruediger Kaub.

You can find more information, impressions and videos at <https://cubesystem.bauer.de/>

Images: 2021-07_BAUER Cube System ...



(1) The BAUER Cube System was developed precisely with container dimensions.



(2) Dr. Ruediger Kaub officially presented the new BAUER Cube System in early July.



(3) The minimally invasive BAUER Cube System reduces the surface impact of cutting sites to a minimum.

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About BAUER Maschinen Group

For almost 60 years, equipment from Bauer has represented the highest performance and quality and constant innovation. The BAUER Maschinen Group is the world market leader in the development and manufacture of specialist foundation engineering equipment. BAUER Maschinen GmbH, which is also the holding company for a number of subsidiaries, designs and builds large-diameter drilling rigs, duty-cycle cranes, trench cutters, grabs and vibrators as well as the related tooling at its plants in Schrobenhausen, Aresing and Edelshausen. The subsidiaries manufacture state-of-the-art mixing and separation equipment as well as rotary drive systems and equipment for drilling small-diameter boreholes and wells. The BAUER Maschinen Group also operates manufacturing facilities in the USA, Russia, China, Malaysia, Italy, Singapore and Turkey. Component suppliers within the Group are Schachtbau Nordhausen and Olbersdorfer Guß. The company operates a global sales and service network. More at bma.bauer.de

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. With over 110 subsidiaries, Bauer can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, 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, oil and gas. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2020, it employed about 11,000 people in around 70 countries and achieved total Group revenues of EUR 1.5 billion. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!