

Press release

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Yerköy-Kayseri high-speed rail line: 28 units from Bauer for a strong foundation

- 142 km of new high-speed rail between the Turkish cities of Yerköy and Kayseri
- Deployment of a total of 28 Bauer units, including drilling rigs, pile drivers as well as mixing plants
- Kelly drilling for piles, single-column mixing for ground improvement

Yerköy/Kayseri, Türkiye – Türkiye is making major investments in the expansion of its railway network. In Central Anatolia, a new two-rail high-speed line is currently under construction between the cities of Yerköy and Kayseri, 142 km long and designed for speeds of up to 250 km/h. The impact will be profound: Travel time between the two cities will drop from three and a half hours to less than one, and passengers from Ankara can even reach Kayseri in just around two hours instead of seven hours in the past. 15 tunnels, 118 underpasses and 18 bridges will be constructed along this line in addition to two stations. Groundbreaking took place in July 2022. After completion and commissioning, the line is expected to transport up to 11 million passengers each year and approximately 650,000 tons of freight – dramatically reducing travel times, improving regional accessibility, and generating new momentum for economic development.

28 Bauer machines and mixing plants

A joint venture comprising the companies Doğuş, Çelikler and Özkar was awarded the contract to execute the specialist foundation engineering works for the entire line. A fleet of 28 machines from BAUER Maschinen GmbH is used for pile installation and ground improvement measures: BG 33, BG 36, and BG 45 drilling rigs, RG 22 S and RG 27 S pile drivers, and CMS 30 mixing plants from BAUER MAT Slurry Handling Systems. “Doğuş has been a loyal Bauer customer for more than 20 years,” reports Sales Manager Wolfgang Ziegltrum from BAUER Maschinen GmbH. “That’s why we are thrilled to contribute to such an important infrastructure project with our equipment, and at the same time further strengthen a long-established business relationship.”

Two methods

The drilling rigs are installing piles down to a depth of 30 m using the Kelly drilling method. These piles provide ground improvement for the rail line and serve as foundation elements for bridges and viaducts. In parallel, the single column mixing (SCM) method is used to improve the soil: A mixing tool blends the in-situ ground with a binding agent injected during penetration. One notable aspect of this project is that the SCM columns are being installed up to a depth of 31.5 m.

Fast delivery and comprehensive support

A decisive factor was the swift availability of the equipment: Within just a few months after receiving the order, the machines were manufactured at Bauer's Aresing plant and delivered, some even ahead of the contractual deadline. On site, a Bauer specialist, together with service and sales partner Karun Makina in Ankara provided detailed, unit-specific and method-specific commissioning and training – Bauer and Karun enjoy a partnership of more than 30 years. An experienced Method Development engineer from Bauer in Schrobenhausen is also supporting the project. In addition, a dedicated Karun service technician will remain on site for the next three years.

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(1) Resource-efficient single column mixing method: The existing in-situ ground is mixed with a binding agent, single columns are produced after hardening.



(2) A whole fleet of Bauer rotary drilling rigs, pile drivers, and mixing plants is being used for the new high-speed rail line in Central Anatolia.



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About BAUER Maschinen Group

For around 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, China, Malaysia, Singapore and Türkiye. A component supplier within the Group is Schachtbau Nordhausen. The company operates a global sales and service network. More at <https://equipment.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: 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 2024, it employed about 11,000 people and achieved total Group revenues of EUR 2.2 billion worldwide. More information can be found at <https://www.bauer.de/en>. Follow us on [Facebook](#), [LinkedIn](#), [Instagram](#) and [YouTube](#)!