



MAX STREICHER GmbH & Co. KG aA develops fully electric driven horizontal drilling rig HDD20-E

Revolutionary in terms of equipment and flexibility – compactness in a totally new approach

MAX STREICHER GmbH & Co. KG aA has been committed to innovative technologies for the construction industry for many years. The latest addition to the extensive ecotec portfolio is the HDD20-E, the world's first fully electric driven horizontal drilling rig in its class.

The compact HDD20-E is the result of an intensive development work in the digital and municipal infrastructure (DKI) division of MAX STREICHER GmbH & Co. KG aA in collaboration with the internal design department. The aim was to develop a fully electric driven machine in the performance class below 30 tons of pulling force. The feed, rotation, mud pump and crawler tracks are driven directly by an electric gear combination.

The HDD20-E is designed as a classic jet drilling rig and is therefore particularly suitable for displacement-capable soils that can be loosened by drilling fluid (such as sand, silt, loam and clay soils with a low rock content). The boost function allows the power to be increased from 20 tons to 25 tons if required.

The performance class of the drilling rig is ideal for municipal applications where reliability and environmental compatibility are required in addition to a compact and mobile overall solution. The complete trailer consists of an HDD20-E drilling rig, a mixing truck with power generation and a low-loader trailer.

The machine can be used flexibly on short-term construction sites without much preparation. The HDD20-E can also be operated via the public power grid. In practice, the system also impresses with new ideas. For example, the rod magazine with reloading function and the innovative slide system allows additional drill rods to be easily fed into the system.

The HDD20-E and the mixer truck are controlled intelligently via a modern touch display. This not only makes work easier for construction site personnel, but above all safer, as the automated functions significantly increase work safety.

Compared to conventional systems, electrification offers numerous advantages, such as reduced CO₂ and noise emissions and better energy management. In addition, the integrated concept minimises wear and reduces maintenance intervals. Like the HDD80-E and HDD45-E already on the market, the HDD20-E actively contributes to decarbonization and resource conservation.

