

PRESS RELEASE

Sustainable New Development

STREICHER introduces a fully electric horizontal drilling rig to the market

The construction industry is changing tremendously as the requirements for safety and efficiency are constantly increasing. The issue of environmental protection is particularly gaining in importance. Time and time again solutions customary to the market have shown they were no longer meeting these technical objectives anymore and are falling short of the present requirements. STREICHER has therefore made closing the technological gap one of its primary objectives by manufacturing its own products that are powered by electricity among others. This includes for example a specially developed horizontal drilling rig (HDD) with a modern electric drive. The many years of technical experience within the group have helped to design and implement appropriate modifications and new developments as products made from practitioners to practitioners.

HDD-E facility will open up numerous possibilities

MAX STREICHER GmbH & Co. KG aA ranks among the experts, as an international provider of services and products in the planning, construction and maintenance of different components with reference to the supply infrastructure for gas, water, electricity, long-distance heating, sewage, telecommunications and broadband systems. A wide variety of laying methods are used in pipeline construction – including the trenchless horizontal directional drilling method. The experience gained in the course of this has contributed to the development of the HDD-E rig.

A fully electric HDD rig has resulted from these concerted efforts which meet the highest standards - for direct in-house use as well as for external customers. It has been the outcome of an ambitious project combining a wide range of expertise from the STREICHER Group: The development of the product has been executed in an interdisciplinary team of experts made up by specialist departments, users and developers. In order to meet the requirements of the new technology and to make use of new opportunities, the system drive has been designed in its entirety as electric-powered: from the rotation device and the feed, to the flushing pump and the chassis. The concept thereby unfolds its full effect.

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Convincing as a full package – clever in detail

The system is much quieter than its previous models, due to the electric drive technology. It offers clear advantages in noise reduction for residential areas and nature reserves as well as for operating personnel working directly in the vicinity of the system. The significant reduction in noise and CO₂ emissions constitutes an increasing advantage when it comes to project tenders. In addition, the system can be powered from the public power grid either in its entirety or in part by auxiliary energy supply. The system design allows it to flexibly react to project-specific requirements and conditions. Its integrated energy storage makes it possible to activate and use stored energy at any given moment. In terms of maintenance, the new system has generally noticeable advantages as the electrical drive technology is subject to comparatively little wear. The system is furthermore far less maintenance-intensive than models with conventional drives.

To ensure the high quality standards of STREICHER, all components have been carefully selected. The power electronics, for instance, were composed by elements of cellular technology, as these are particularly shock and vibration resistant and protected against dirt and water. A further highlight is the new, unique operating concept of the HDD80-E. It is drafted from suggestions, experiences and custom requests, coming from the field of drilling practice, and offers a functional cockpit that allows for an intuitive control of all main functions by using two joysticks. A large 19" touch panel simultaneously displays the system status and all relevant drilling parameters. The system's various innovative automatic functions collect all parallel drilling data independently to facilitate human operation while running its extensive anti-collision system.

A look at the performance data also reveals the state-of-the-art of this new development. The rig has a thrust and pullback force of 80 tons, a drilling torque of 57,000 Nm and a maximum speed of 100 revolutions per minute with a feed-in power of 400 kVA.



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In 2021, based on this concept, another electric HDD rig in a further size class will be completed, which shall offer additional advantages, especially for operations in confined spaces, as it will have smaller dimensions and a functional capacity of 45 tons of compressive or tensile load.

Great potential for conduits and pipeline construction

With the fully electric design, STREICHER has created a versatile product that is second to none. It has been extensively tested and its system support proven effective while the product was optimised in a large-scale pilot project of underground and trenchless power route laying. With the HDD80-E and an all-electric welding tractor that has been specifically developed in-house – the STREICHER Group commences a new era that should bring many more exciting developments. The experience gained from these projects in the future shall be used for the design and construction of further machines. STREICHER continues to break new grounds under the motto “from practitioners to practitioners” and improve conventional technology in all core fields of technology from safety to environmental protection and efficiency - for better results and a protected environment.

Contact:

MAX STREICHER GmbH & Co. KG aA
Tanja Schmidt
Head of Marketing
Josef-Wallner-Str. 5a
94469 Deggendorf
Germany
Phone +49 991 3109-5820
tanja.schmidt@streicher.de
www.streicher.de