Heavy equipment focus

MAX STREICHER

MAX STREICHER GmbH & Co. KG aA has successfully expanded its product line of sustainable, future-focused innovations. The company's objective is to use the latest trends and state-of-the art technology to promote resource conservation, environmental protection, energy efficiency, ergonomics, and optimisation of the applied energy cycle in their product devices.

The label ecotec has been initiated particularly for this purpose; in line with the goal of decarbonisation, the ecotec label combines innovative technologies with future-oriented trends which help to significantly reduce it's ecological footprint. In 2020, STREICHER began the ecotec portfolio with the electric welding tractor – the PW 150-E. These pay welders have been successfully used in various projects by the company, as well as by other contractors. In addition to its new design and drive, it is the operation of the crawler drive system and crane via radio remote control that distinguishes it from other models.

One year after the release of the PW 150-E, the fully electric driven horizontal drilling rig HDD80-E followed, which has also been extensively tested and used onsite. The conclusiveness of the concept and its consistent realisation has led to the award of various prizes in 2021 and 2022 – the rig is winner of the German Innovation Award, the Red Dot Award, and recently won the German Sustainability Design Award. Moreover, the IPLOCA jury was convinced by its excellent sustainability, efficiency and its intuitive operating concept.

In the meantime, the ecotec product portfolio has been further expanded; STREICHER presents three new products which use the same concept of their predecessor models and expand their use to further areas of application. The new HDD45-E, for example, is a smaller variant of the horizontal drilling rig HDD80-E. Due to its compact size it is, among other things, designed for operation in confined spaces, making it particularly suitable for use in nature reserves and residential areas. The rig also has reduced noise output levels and CO_2 emissions – a feature that is playing an increasingly important role in project tenders. The HDD45-E's performance values are impressive as well; it has a thrust and pullback load of 45 t, an innovative boost function of 60 t and a drilling torque of 24 000 Nm with a maximum rotation speed of 150 revolutions/min. In addition to its convincing performance data, all of the main functions of the HDD45-E can be controlled with two joysticks. The relevant drilling parameters and the status of the system are all simultaneously displayed on a large 19 in.

Figure 1. Fully electric driven horizontal drilling rig HDD45-E.

touch panel. Furthermore, the device encompasses innovative automatic operating functions and an extensive anti-collision system.

This 2022 portfolio is also complemented by the fully electric driven HPP400-E mud pump. This high-performance pump consumes significantly less energy than a conventional mud pump and is therefore more cost-efficient. Advantages of the electric drive include reduced maintenance requirements. In combination with a HDD-E rig, the HPP400-E can contribute to an holistic, future-focused, and sustainable construction site.

Lastly, the STREICHER ecotec range has been expanded by the vacuum crawler VC70. This device is more ergonomic, eco-friendly, and able to remove a wider variety of soil materials – sand, earth, gravel, stones, mud and water – than conventional methods. These advantages become clear when excavations are required in areas where the soil is interspersed with, for example, tree roots, plants and subterranean supply lines, as well as when cleaning sewer systems and industrial plants. The absorbed material can be easily emptied on site from its container, regardless of whether the contents are liquid or solid. Other advantages of the VC70 vacuum crawler include its compactness and manoeuvrability, as well as its high operative performance. It is manually operated by a wireless remote control, which can be used to continuously regulate the vacuuming power and switch between two gears, depending on the operating terrain. This makes the vacuum crawler an ideal alternative to performing manual excavation work, which is significantly more exhausting and less efficient in its results. Its compact design even allows it to be used on pavements, thus avoiding road closures. Optional equipment is available to provide even more functions, such as a compressed air lance for loosening the soil, a filling level sensor for the suction container, and much more.

Figure 2. Fully electric driven mud pump HPP400-E.

Figure 3. Ergonomic vacuum crawler VC70.