Because of the high demand for the two existing electrical excavators, the TB216E and TB1140E, Huppenkothen Baumaschinen assigned its subsidiary, SUNCAR HK AG, to electrify another model. Thanks to its practical size, the new TB260E is a very promising product.

With the launch of electrical excavators in 2015, Huppenkothen belongs to the pioneers regarding the electrification of the construction industry. So far, Huppenkothen’s rental park counted two electrical excavator models, the TB216E and TB1140E, both developed by SUNCAR HK AG. The electrical fleet consists of 30 excavators, each of which is constantly in use by Huppenkothen’s customers. This shows how much sustainability plays a role in the construction sector. In order to meet the demand, Huppenkothen has complemented its portfolio by an additional electrical excavator model, the TB260E. With a width of 2 m, a height of 2.5 m and a working weight of 6.8 t, the original diesel-driven TB260 features a practical intermediate dimension, which makes it the most-sold model of all Huppenkothen excavators. The electrical equivalent, the new and powerful TB260E, is particularly suitable for indoor use. The lack of emissions such as nitrogen oxides and fine particles and the significantly quieter operation are especially valued.

A general advantage of electrical excavators in comparison with conventional excavators with combustion engines is the saving of costs during operation. The electricity costs are generally lower than the diesel prices. Additionally, the electric motor is essentially maintenance-free. Hence, the recurring service costs can be spared. The electrical excavator also impresses with an efficiency that is 1.5 times higher than the one of a diesel motor and with its handling of peak loads without any speed dips. Electrical excavators are more dynamic than conventional excavators and can execute different movement commands simultaneously without any delay.

The TB260E is equipped with three Li-Ion battery modules, which are in total 1.5 times bigger than the latest Tesla battery. The liquid-cooled round cells allow a non-stop full-load operation of six hours. Thanks to the onboard charging capacity of 44 kW the re-charging during lunch break is enough to keep the electrical excavator running all day.

Stefan Schneider, managing director of SUNCAR HK AG is proud of the expansion of the portfolio of electrical excavators. “We are happy to make, together with Huppenkothen, a contribution to the realization of our common future vision: emission-free construction sites.”

**SUNCAR HK AG**

SUNCAR HK is a start-up company of ETH Zurich and a subsidiary of Huppenkothen Baumaschinen (www.huppenkothen.com). SUNCAR HK is a development office which consists of a team of ten people and specializes in the electrification of construction machines, utility and municipal vehicles. SUNCAR HK has won the Swiss as well as the European Solar Prize.
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