



Hitachi logo

IMAGE SOURCE: Hitachi Construction Machinery (Europe) NV (HCME)

Hitachi and KTEG present their first hydrogen-powered excavator at Bauma

24 April 2025 by HITACHI

- **Hitachi Construction Machinery (Europe) NV and KTEG have unveiled their first hydrogen-powered 30-tonne excavator at Bauma 2025.**
- **The new model, ZE300 H₂, features a hydrogen engine from Deutz, offering performance comparable to diesel engines.**
- **Hydrogen storage is integrated into the rear of the machine, replacing the counterweight for easy maintenance and refuelling.**

- The ZE300 H₂ is designed to deliver high performance and operator comfort, aligning with KTEG's zero-emission goals.
- KTEG GmbH, a joint venture between Hitachi Construction Machinery Co., Ltd and Kiesel Technologie Entwicklung GmbH, developed this zero-emission excavator.

Hitachi Construction Machinery (Europe) NV (HCME) and KTEG have announced that their first hydrogen-powered 30-tonne excavator will be part of their most extensive zero-emission machine line-up at Bauma 2025.

The development of this innovative new model underlines the endeavour of KTEG and Hitachi to extend their portfolio of zero-emission solutions across all excavator weight classes. The machine is equipped with a hydrogen engine, supplied by Deutz, which provides diesel-like performance.

The hydrogen storage is integrated into the rear of the machine, replacing the counterweight. This ensures convenient access to the engine compartment for maintenance and easy refuelling. Like all KTEG machines, the ZE300 H₂ delivers uncompromising performance and exceptional operator comfort.

"We believe that hydrogen-powered excavators can be a sustainable solution for large-scale zero-emission construction projects," says Harald Thum, KTEG Managing Director. "We are delighted to introduce this zero-emission solution for the European construction industry as job sites seek to reduce their environmental impact."

This zero-emission machine has been developed by KTEG GmbH, the joint venture between Hitachi Construction Machinery Co., Ltd and **Kiesel** Technologie Entwicklung GmbH.

Source: Hitachi Construction Machinery (Europe) NV (HCME)

[EXCAVATORS](#)[CRAWLER EXCAVATORS](#)[EXCAVATOR](#)