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Komatsu to exhibit 20-ton Class Proterra powered electric hydraulic excavator at bauma 2022 for the first time

*Accelerating to achieve safe, highly productive, smart and clean workplaces of the future -
Collaboration with Proterra of the U.S. to electrify small and medium-sized hydraulic excavators*

Vilvoorde October 2022 — Komatsu Ltd. (President and CEO: Hiroyuki Ogawa) will exhibit a 20-ton class electric hydraulic excavator equipped with a lithium-ion battery system for the first time at bauma2022, a leading international trade fair for construction equipment to be held in Munich, Germany, from October 24 through 30. The machine is powered by a lithium-ion battery system from U.S.-based Proterra (CEO: Gareth Joyce). Since January 2021, the two companies have been jointly developing electric medium-sized hydraulic excavators and have been conducting PoC (Proof of Concept) tests on advance research machines at customers' construction sites. The machine is scheduled to be introduced to the Japanese and European markets in FY2023.



20-ton class electric hydraulic excavator

Hydraulic excavators are the most versatile type of construction equipment, and the mid-size class, in particular, is used in a wide range of jobsites and applications, mainly in earth excavation and loading operations, requiring power and durability to withstand heavy-load work. This model optimizes the entire body control system by capitalizing on Komatsu's proprietary coordinating technology. It specifically integrates Proterra's lithium-ion battery technology which has a proven track record for use in heavy-duty and commercial vehicles deployed in various fields around the world, with Komatsu's components, such as the hydraulic pump, controller, and electric motor for work equipment operation. In addition, Komatsu has developed a robust cage structure to provide additional protection onboard the vehicle for its battery packs. As a result, Komatsu has achieved digging performance and durability equivalent to those of engine-driven hydraulic excavators. In addition, the high energy onboard the excavator's Proterra Powered battery system enables operation for up to 8 hours* when fully charged.

The electric power makes it possible to work comfortably in various work environments without worrying about noise and exhaust emissions, and is expected to be used for work in urban areas and nighttime construction work, etc. The zero-engine vibration will also help reduce operator fatigue.

As global awareness of climate change accelerates, Komatsu has declared to achieve carbon neutrality by 2050 with the aim of realizing a sustainable society. In collaboration with its partners, Komatsu is developing electric construction equipment to achieve zero exhaust gas emissions and a significant reduction in noise emissions with the vision of developing safe, highly productive, smart and clean workplaces of the future.

DANTOTSU Value is defined as customer value creation that generates a positive cycle of improvement of earnings and ESG resolutions in Komatsu's mid-term management plan, entitled "DANTOTSU Value - Together, to "The Next" for sustainable growth". Through this DANTOTSU Value, Komatsu will strive to create new values in order to take steady steps forward to the next stage for the workplace of the future and pass on a sustainable future to the next generation.

*Operation of 5 to 9 hours in the PoC test, depending on the workload conditions.

[Main specifications]

Item	Unit	Exhibit machine specifications
Bucket capacity	m ³	0.8-1.2
Shipping dimensions	Overall length	9,700
	Overall width	2,980
	Overall height	3,140
Tail swing radius	mm	3,020
Machine mass	kg	24,000
Motor output	kw	123
Battery capacity	kwh	451

[Website]

We have built a bauma page on Komatsu.eu <https://komatsu.eu/events/bauma2022>

And we are building a full komatsu@bauma website for the "virtual fair":

<https://bauma.komatsu.eu>

About Komatsu

Komatsu is an industry-leading manufacturer and supplier of equipment, technologies and services for the construction, forklift, mining, industrial and forestry markets. For nearly a century, Komatsu equipment and services have been used by companies worldwide to develop modern infrastructure, extract fundamental minerals, maintain forests and create technology and consumer products. The company's global service and distributor networks support customer operations, tapping into the power of data and technology to enhance safety and productivity while optimizing performance.

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