**Moog’s Next-gen Electrification Solution Debuts at Bauma 2025**

**EAST AURORA, NEW YORK, U.S.A. – February 18, 2025** – Moog Construction is using Bauma 2025 as the stage for introducing its Adaptive Electrification Management System, which reduces the cost and complexity of designing, building, operating, and repairing electric off-highway vehicles. The Adaptive Electrification Management System is a next-generation, patent-pending electronics solution and part of Moog Construction’s award-winning TerraTech electrification product portfolio. TerraTech includes advanced electronics, configurable software, high-performance electric motors, electric cylinders, and electric motor/pump units.

As electrified off-highway vehicles evolve, they must power and control more functions. OEMs need new vehicle system architectures--frequently requiring more electric motors--to boost vehicle efficiency, increase battery runtime, and decrease battery size. These requirements increase complexity and cost.

The Adaptive Electrification Management System simplifies managing multiple functions on electric vehicles. For example, the new Moog system integrates an advanced controller with configurable software, high-voltage power distribution, DC/DC converters, and both single- and dual-axis inverters to efficiently power multiple functions. This system reduces cost and packaging with a high-voltage busbar and shared coolant manifold to reduce cables and coolant hoses.

The electronic modules on Moog’s system are universal. Therefore, OEMs can use them across different machine types and sizes. An OEM can inventory a single part number per module, whether for a 6-ton CTL, 15-ton wheel loader, or 25-ton excavator. Standardization simplifies supply chain management from production to the dealership service center. And the Adaptive Electrification Management System’s value grows by scaling to meet demands.

“The Adaptive Electrification Management System improves serviceability and reliability by reducing points of failure. This lowers costs across the OEM value stream,” said Dr. Nate Keller, Moog Construction’s strategic business development manager. “For instance, traditional electrification solutions require about 100 cables to power a fully electric compact track loader; Moog’s new electrification management system streamlines this to 30 cables—a 70 percent reduction.”

Moog designed the Adaptive Electrification Management System to help OEMs and vehicle owners lower the cost of manufacturing and operating electric machines today.

**About Moog Construction**

Moog Construction is a part of Moog Inc., (NYSE: MOG.A and MOG.B), a worldwide designer, manufacturer, and systems integrator of high-performance precision motion and fluid controls and control systems. Moog Construction is committed to providing sustainable and complete electrification solutions to off-highway OEMS, and to accelerate OEM’s electrification initiatives. Visit [www.moogconstruction.com](http://www.moogconstruction.com) to transform the future of off-highway vehicles.

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