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LINEAR DRIVE FAMILY

Dedicated for mobile machines

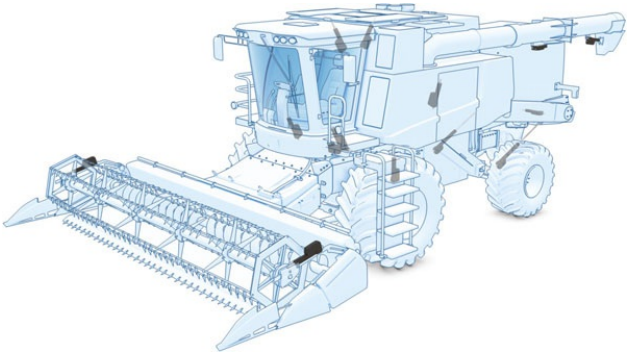
Thomson Actuators has introduced the Electrak HD product range featuring J1939 connectivity. It can handle loads up to 16 kN.

The Electrak HD linear actuators are IP67K-rated (Photo: Thomson)

The Electrak HD electromechanical linear actuator line features a 500-mm stoke length. The speed is at least 5 mm/s. “Hydraulic cylinder users are increasingly converting their hard-to-maintain, hard-to-control systems to low-maintenance electromechanical technology with onboard electronics,” said Chad Carlberg from Thomson. “By expanding our popular Electrak HD capacity to 16 kN, we offer clean, compact, and smart electromechanical replacement for hydraulic actuators in just about any size application. And along with that comes best-in-class electromechanical stroke length and durability.”

Hydraulic systems require integration of many components, including a motor, pump, reservoir, and hoses, as well as the cylinders themselves. Any control capability desired, such as position feedback or dynamic braking, requires additional equipment, and the fact that hydraulic systems are prone to leakage adds additional operating and maintenance costs.

Håkan Persson from Thomson Actuators, stated: “Embedding onboard into the actuator housing reduces component cost, installation cost, and design labor that might otherwise be needed.” (Photo: Thomson)



Linear electromechanical drives are suitable for “machines on wheels” such as agriculture off-highway vehicles (Photo: Thomson)

Electromechanical actuators accomplish all operation and control functions with onboard electronics, reducing footprint, installation, and maintenance costs. The linear actuators simply connect to a power supply and PLC or other control source to bring the benefits of onboard electronics to high-load applications for construction and agriculture, material handling, and factory automation. To integrate the linear actuators in to the J1939-based in-vehicle networks, they provide a CAN interface and the appropriate protocol stack. Even with high loads, the actuators operate in temperatures ranging from -40 °C to +85 °C. They can withstand salt spray for 500 hours.

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