



Thomson Electrak® HD onboard controls make your applications work smarter



Thomson Electrak HD offers industry-leading, onboard electronics with built-in J1939 CAN bus option that enhances controllability, can eliminate individual controls and simplifies OEM machine design.

Due to the increasing **integration of advanced electronics**, today's linear actuators have become safer, smarter and easier to network with agricultural, construction and mobile off-highway equipment.

Modern linear actuators like the Thomson Electrak HD offer analog and digital feedback. The Electrak Modular Control System also **monitors critical parameters and can react to them automatically**. They deliver inexpensively real-time operating status and network flexibility with other systems.

All of this is the result of incorporating a programmable microprocessor to meet market demand for **greater safety, functionality and modularity**.

Read more about modern electric linear actuators in our **new technical article** and **learn how they open exciting new possibilities** for your applications.

[Read this Technical Article about Onboard Electronics >](#)

[Watch the Smart Actuator Webinar Recording >](#)

+ education/events



Thomson Tech Tips Video

Lubricating Linear Rails & Bearings

All linear guides and bearings require the application of lubrication. Use a cloth with solvent to remove any old contaminants and lubrication that may remain. Once done, you can inject the lubricant through the grease fitting directly into the carriage or apply it to the shaft by hand.

Learn how to **easily service linear bearings and rails:**

[Watch the video on YouTube >](#)

+ applications/tools/products



Precision Rolled Ball Screws in 3D

Thomson rolled ball screw assemblies provide **quiet, smooth running, excellent guidance and stiffness, low wear**, and efficient performance. They also are manufactured up to a **lead accuracy of $\pm 12 \mu\text{m} / 300 \text{mm}$ (P3)** for use in demanding applications in the machine tool, packaging, material handling, factory automation and medical industries.

CAD data in various 2D and 3D formats is available for immediate download and insertion into your application designs:

[Download free 3D models now >](#)

Can't find what you are looking for or still have questions? Thomson specializes in **custom-engineered solutions** to address unique project requirements. [Contact us](#) to answer your ball screw needs.

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