

Designing Smart Machines Starts with Smart Tools

As the industrial world becomes increasingly connected, the designer's need for intelligent components that can communicate with each other and operate without the need for manual interaction is growing. Thomson, a trusted manufacturer that has always been committed to staying ahead of the technology curve, is meeting this demand and helping to usher in a new generation of "smart" actuators.

What is Smart Actuation?

The crux of smart actuation begins with the integration of onboard electronics, which enables enhanced control functions that were previously external, such as switching, position feedback and system diagnostics, directly into the actuator. Newer actuators from Thomson incorporate microprocessor-based printed circuit boards with complementary software which allows communication between remote networks.

Benefits

- Increased efficiency and productivity.
- Enhanced diagnostic capabilities and controllability.
- Fewer components and less cabling.
- Minimized complexity and easier installation.
- Reduced hardware and software costs.
- Decreased machine development time and weight.
- Improved machine functionality and performance.



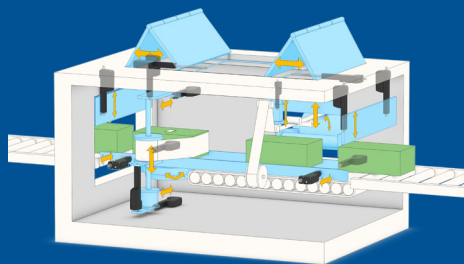
Thomson Smart Linear Actuators

Electrak® HD
Electrak Throttle
WhisperTrak™
Custom Solutions

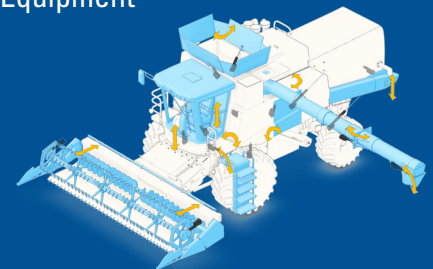
Reaching New Markets

Smart actuators are increasingly finding their way into applications that were once dominated by pneumatic and hydraulic systems. The mobile off-highway (MOH) vehicle market was among the first to deploy electric actuators for enhanced control and automation capabilities available in the field. However, other industries have begun to realize the many benefits of smart actuation.

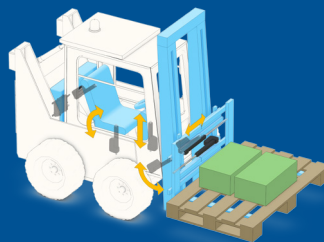
Factory Automation



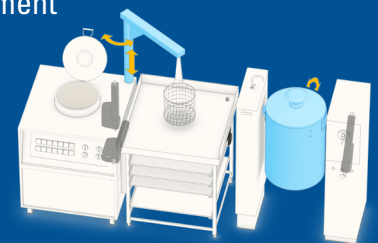
Construction and Agricultural Equipment



Material Handling



Domestic, Office and Hospital Equipment



Visit www.thomsonlinear.com/smart to learn more about smart actuation and the benefits it will bring to your linear motion designs.