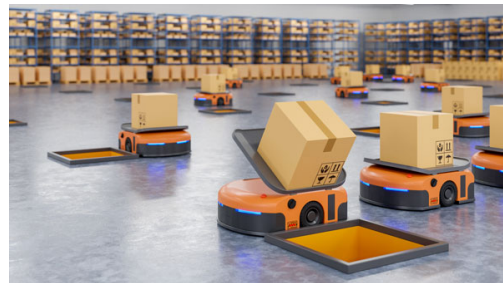




Maximize adaptability to your applications by designing AGVs with smart electric actuators

As the demand for specialized industrial AGVs grows, OEMs are increasingly meeting customer needs for special functionality and economy by offering standard AGV models that can be easily adapted to a wider range of factory floor applications. Equipping AGVs with such versatility is an evolving new generation of smart electric linear actuators armed with onboard intelligence and communications, extended durability, modular assemblies and flexible mounting options.



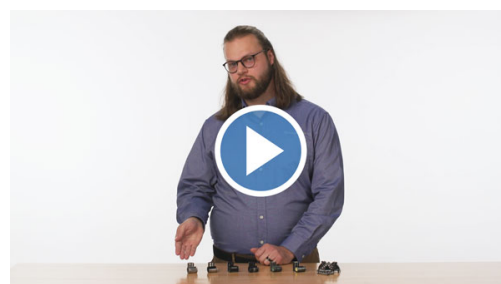
A recent article (also published in *Machine Design*) examines how these features and benefits of today's smart actuators, such as real-time feedback, rear mounting flanges, 100% duty cycles and more, make them ideal for a factory's many AGV applications.

[READ THE FULL ARTICLE](#)

[TRY OUR LINEAR ACTUATOR SELECTOR TOOL](#)

VIDEO: Which Linear Bearing is Best for Your Application?

Once you determine that round rail is preferred for your application design, it is important to select the right linear bearing to maximize the advantages of round rail, and to minimize friction. Thomson offers a wide variety of linear bearings, and by starting with determining which attributes of your



application are the most critical, you will simplify the decision-making process.

Watch our Tech Tips video to take a brief tour of our linear bearing selection to find out which one(s) are ideal for your linear motion applications.

[WATCH THE VIDEO](#)

[TRY OUR LINEAR BEARING SELECTOR TOOL](#)

Have it your way with new Compact Linear Systems

Thomson compact linear systems address the need for thrust and bearing support in a single, small-scale unit for space-conscious applications. Whether you opt for one of our three standard architectures (see below) or work with our engineers on a “from scratch” solution, your application requirements will determine the selection and sizing of your system components.



Standard Configurations	Vertical Configuration (CLSV)	Horizontal Configuration (CLSH)	Round Rail Configuration (CLSR)
Included Components	Thomson lead screw and motor (MLS) + Thomson profile rail and carriage + Thomson standard nut	Thomson lead screw and motor (MLS) + Thomson anti-backlash nut	Thomson lead screw and motor (MLS) + Thomson round rail and linear bearings + Thomson anti-backlash nut
Design Advantage	Vertically stacked screw and profile rail to allow for smaller footprint	Horizontally arranged lead screw and profile rail to allow for shorter system height	Dual round rail guidance results in a cost-effective solution that withstands high moment loading
Max. Stroke Length	800 mm (32 in)	800 mm (32 in)	500 mm (20 in)
Max. Payload	2000 N (450 lbf)	2000 N (450 lbf)	500 N (110 lbf)

[LEARN MORE](#)

[DESIGN YOUR COMPACT LINEAR SYSTEM](#)

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