



Achieve precise linear motion in your applications with built-in anti-rotational guidance

Whether anti-rotational guidance is added externally by the user or integrated by the manufacturer, it is vital for achieving precise linear motion. A recent *Motion Design* article examined both approaches.

For smaller applications or high-precision ones with relatively short strokes, built-in anti-rotational guidance is recommended since the total cost of installation, including design time and other items, is often lower.

Selecting the right built-in technology depends on a number of factors you need to consider, including:

- Radial and moment load handling
- Integrating external devices
- Mounting
- Customization



Thomson stepper motor linear actuators, which include anti-rotation as standard, are available in a number of configurations that allow users to select a product based on linear travel per motor rotation.

[Read the article >](#)

[Explore Thomson stepper motor linear actuators >](#)

+ education/events

New Tech Tips videos:

Linear Ball Bushing® Bearings and 60 Case® Shafts



Having helpful tips and a well-rounded knowledge of linear motion components allows for quicker, higher-quality machine designs. Boost your know-how with our **eight new Tech Tips videos** on linear bearing, shafts and accessories.

Select titles include:

- Choosing Between Closed and Open Linear Ball Bushing Bearings
- How to Use Adjustable Pillow Blocks to Optimize Precision
- Choosing a Thomson Shaft Support

- Mounting Options for Round Shafting
- A Closer Look at Thomson Adjustable Linear Bearings

Watch Thomson Tech
Tips videos >

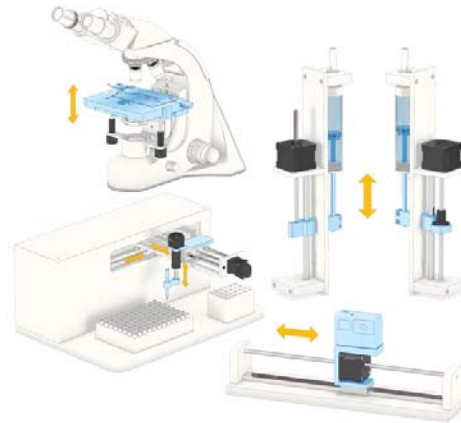
+ applications/tools/products

Reduce the number of components in your design with stepper motor linear actuators

Thomson stepper motor linear actuators (SMLA) deliver a high level of flexibility to designers, translate loads using smooth motion, and provide users with quick and easy maintenance access.

A number of applications show that these actuators help reduce the total number of components used in common machines and devices. These include:

- Pipetting
- Plate Vertical Positioning
- XY Stages
- Horizontal Positioning
- 3D Printing
- Robotic Grippers
- Monitor Tilting



Contact us to learn more about how SMLAs can simplify your designs.

Learn more about stepper motor linear actuator applications >

Share via Social Media:



Share via
e-mail:



©2019 Thomson Industries
1500 Mittel Blvd, Wood Dale, IL 60191, USA

[UNSUBSCRIBE](#)

To be completely removed from all Thomson emails, [click here](#).