



Maximize space in medical device designs with miniature linear motion components

The rising demand for more space-efficient laboratory technology combined with laboratory process innovation is challenging motion control application designers to deliver small-scale systems without compromising performance.



Miniature linear motion components can help designers meet even the most stringent space requirements for today's medical equipment.

Fortunately, Thomson is helping meet this demand by offering standard parts in smaller sizes, hybrid assemblies that eliminate the need for certain components and extensive customization capabilities.

A recent article (also published in *Today's Medical Developments* magazine) examines three options designers have when developing motion control systems to fit into smaller spaces: designing with smaller components, eliminating the need for external linear support and creating a customized solution.

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VIDEO: How to install an external safety nut onto a metric ball screw assembly

When installing a ball nut assembly in a vertical application, it can be critical to have a safety lock mechanism in the ball nut assembly to hold the load in the event of a ball screw or nut failure. An external safety nut provides the ideal backup safety feature for applications such as patient tables, stage



constructions and people bridges
at the airport.

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Deliver precise motion to your small-scale applications with our miniature lead screws

Thomson miniature lead screws enable designers to achieve small-scale designs once considered impossible. Configurable, customizable and lean, these components help reduce the size and weight of applications without compromising precision, life or function.



Diameters as small as 2 mm, optional anti-backlash design and a patent-pending, quick-mounting integrated coupler highlight these miniature components.

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