



How To Choose The Ideal Linear Guide For Your Application



Thomson offers six unique profile rail product families.

Profile rails provide **increased rigidity and stiffness** over round-rail products, while offering **high load capacities in a small package**. These rails can differ significantly in rigidity, load capacities, travel accuracy, smoothness of operation and speed, and they come in various sizes and mounting configurations.

In a recent article, Drives & Controls magazine compares the most common profile architectures for linear guides and explores the **performance trade-offs you need to consider**.

As poor profile rail installations can affect stiffness, capacity and smoothness, a **handful of tips are provided** for prepping surfaces, mounting, and **choosing the ideal size and materials**.

[Read the article in Drives & Controls magazine >](#)

[Get started & find the optimal linear guide component >](#)

+ education/events



NEW: Thomson Tech Tips Video

Identifying Your Ball Screw Assembly

Need to replace worn ball screw assemblies but aren't exactly sure what kind you have?

This video demonstrates some **simple techniques** to help you determine and characterise your ball screw. Follow these and **shorten the time** it takes to **replace worn assemblies**:

[Watch the video now >](#)

+ applications/tools/products



Design With More Thrust, Smaller Footprint and Easier Maintenance

A device equipped with Thomson's Motorised Lead Screws can achieve key design advantages:

- Combination of a hybrid stepper motor and a lead screw in one compact envelope needs less footprint.
- Up to 30% more load capacity than comparable products by optimising the motor performance and matching this with the ideal lead screw and nut design.
- Rapid prototyping / field serviceability with patent-pending Taper-Lock technology which allows quick decoupling and secure, properly-aligned connections.

Use the Performance Plot Generator to configure a product code and generate the Load/Speed curves:

[Start Performance Plot Generator >](#)

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