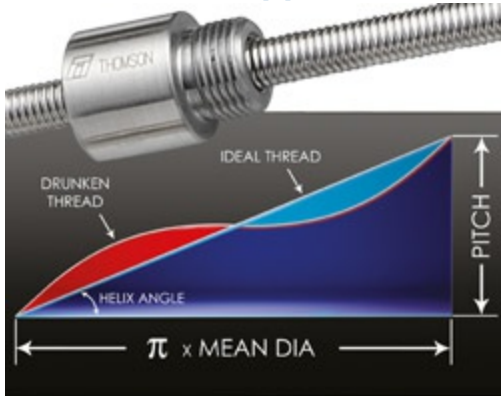




Ball Screw Drunkenness: Debunking the Myth for Miniature Applications



Thread drunkenness is defined as the erratic pitch error occurring within intervals of one pitch.

Machine Design magazine has published a **new Thomson technical whitepaper** to help design engineers manage this issue properly and **achieve the required accuracy in new machine designs.**

Guided by ISO, DIN & JIS industrial standards, many design engineers broadly define lead accuracy of ball screws only in terms of error accumulated over 300 mm (V300) but often overlook the value of measuring or controlling lead accuracy per revolution ($V2\pi$). Often referred to as ball screw drunkenness because of the hard-to-predict wobble it introduces into ball screw operation, **lead accuracy per revolution is emerging as a critical parameter** in miniature screw applications where the overall travel length is less than 300 mm.



Read more about how to **prevent ball screw drunkenness in miniature applications** by clicking the link below:

A dedicated lead accuracy measurement device for miniature screws designed by Thomson can dynamically measure the full travel length of the screw and grade the accuracy per international standards.

[Learn more on the Miniature Components website >](#)

[Read the technical article on Machine Design >](#)

+ education/events



Propel your machine designs to a smart future with Electrak® HD

A **new Thomson video** takes a closer look at how you can design your machines with **smarter, sturdier and stronger actuation.**

Thomson Electrak HD sets the bar for the electric linear actuator platform in **factory automation, material handling and mobile off-highway markets.**

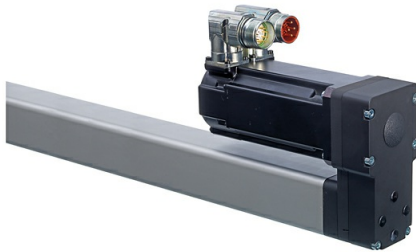
- **Onboard electronics** can eliminate the

need for standalone controls

- Higher power opens a wider range of **hydraulic applications to electric conversion**
- It meets the most extreme environmental acceptance tests

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+ applications/tools/products



PC Series precision linear actuators now available with motors

PC Series actuators have built a sterling reputation in the linear motion industry for their **superior performance**, including exceptional power density, high speed and long stroke length.

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