



Ball splines are making a comeback. Are they right for your applications?

As emerging opportunities for automation bring more axes of motion to machinery, more designers are finding that pre-packaged solutions may not have enough flexibility to meet application requirements. This shift has caused many designers to reconsider ball splines, mostly because of their unique ability to integrate rotary and linear motion on a single shaft.



A recent article (also published in *Design World*) looks at how ball splines provide advantages for motion performance and stability, giving designers more ways to compress an assembly, extend a stroke or distribute a load, as well as new flexibility to meet modern automation demands.

[READ THE FULL ARTICLE](#)

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VIDEO: Advantages and Limitations of Double Clevis Jacks

While a majority of screw jack applications require straight linear movement, occasionally designers have a need for angular movement as well. Thomson double clevis screw jacks are the simple solution for moving a load through an arc, such as tracking antennas, hinged doors or air dampers.



Watch our Tech Tips video to learn more about the design of this mount, understand which of our screw jacks can be equipped with double clevis mounts, and see application examples.

[WATCH THE VIDEO](#)

[EXPLORE OUR SCREW JACKS](#)

Carbon Alloy Acme Lead Screws from 3/8" to 6" are Available Now

For industrial high-load applications that exceed the capabilities of stainless steel lead screws, Nook carbon alloy acme screws are a highly effective solution. Made from 4140 high alloy steel coated with black oxide for protection, these screws can be assembled with acme bronze lead nuts and provide exceptional support in high-dynamic-load, lifting applications.



In addition, select screws are available in a twin-lead configuration, which offers dual opposing motion using a single drive system. Highly configurable and customizable, alloy screws can be ordered up to 20-foot lengths, and are made to a centralizing thread form to prevent wedging and binding.

[EXPLORE OUR CARBON ALLOY LEAD SCREWS](#)

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