



## Round rail or profile rail?

# Understanding the key differences can impact cost, performance and durability for your applications

When designing for linear motion applications, choosing the right components is essential to maintaining your budget and hitting your deadlines. To best determine whether round rail or profile rail is the ideal fit for your design, you need to understand how they differ and evaluate how their characteristics apply to your application.



In a recent *Design World* article, we examined key application considerations such as environmental concerns, fluid and solid particulate egress, corrosion, and shock and vibration in order to help you reach a clear understanding of which rail type is your ideal solution. Click the article link below to review these factors in more detail.

[READ THE FULL ARTICLE](#)

[TRY OUR ROUND RAIL SELECTOR TOOL](#)

## Ditch the complexities, hazards and expense of traditional hydraulic systems

**Access our new white paper and discover a better actuator solution**

Applying the phrase "We've always done it this way" when it comes to hydraulic systems can lead to a number of issues, including:

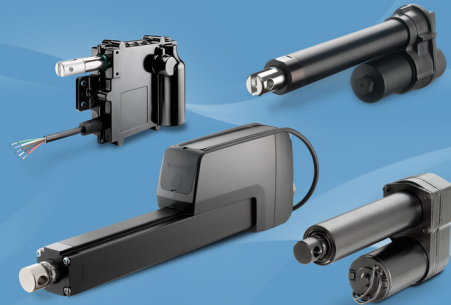
- Limited control capability
- Mess and potential danger to workers
- Overly complicated installation and maintenance
- Large space utilization
- High energy consumption and costs
- Noise

A cleaner, simpler and more environmentally friendly solution exists in the form of electric linear actuators. Learn more about the hydraulic drawbacks above and how electric actuators have been replacing them as a viable solution for many applications.

White Paper

**THOMSON**  
Linear Motion. Optimized.

## Why Electric Actuators are Increasingly Replacing Hydraulic Actuators



ACCESS THE WHITE PAPER

## Upload your shafting 3D model and get instant pricing and lead times

### Watch our new tutorial video

Keep your projects on track with the Thomson Instant 3D Quote Tool, which allows you to upload a 3D model online and get pricing, lead time and the option to order in a matter of minutes.

- Customizations include coaxial hole, flat, journal reduction or any combination thereof.
- Materials include carbon steel, stainless steel and chrome-plated.
- Expedited delivery options are available.
- Design or quantity changes can be made in real time.

Sample Shaft - 0.75 diameter with tapped hole (1 out of 1 ready, 1 new)

1 Upload 2 Price 3 Cart 4 Delivery 5 Summary

Price	
Quantity	1
Subtotal	\$102.68
Tax (0.00%)	\$0.00
<b>Total</b>	<b>\$102.68</b>

**ADD TO CART**

Model size: 163.23 x 19.05 millimeters  
Volume: 3354 cubic centimeters

Single Flute Reduction: 0.27 1 1 UNF

Priority: Standard - Part ships in 10 business days

Post production

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