



Thomson® Linear Motion Design Tips for Harsh Environments

A critical step in designing any mechanical linear motion system is to understand the environmental conditions under which the system will operate.

Key design considerations include: temperature, dust and dirt levels, chemical exposure, washdown processes, vibration and shock load, radiation, as well as any other pertinent environmental factors that may be encountered.

Make sure to document these key factors prior to material selection. Capture actual data and study fault codes of prior products to ensure that you are working with facts rather than opinions.

Use Thomson's application expertise to select suitable linear motion components and develop a robust test validation plan, including both durability and environmental testing, in order to ensure that the materials you have chosen will provide the life and serviceability you expect.



Linear motion systems are exposed to a range of extreme industrial environments. Careful specification and selection of the components, as well as a thoughtful engineering review can mitigate risks in harsh industrial conditions.

**Read more in UK's DPA
magazine, Oct. 2015 issue >**

**Application-based sizing:
Linear MOTIONEERING® >**

+ education/events



NEW: Thomson Tech Tips Video

Benefits for Wash-down Applications with Prism Guided Linear Units.

Thomson introduces the benefits of the Movopart M75 belt driven, prism guide unit that is set up with a wash down option.



These prism guides have a unique self-aligning guide system with shaped polymer bushings running directly on the anodised profile surface and are ideally suited to applications where shock loads, low noise, wash-down or caustic environment requirements are present.

[Watch the video now >](#)

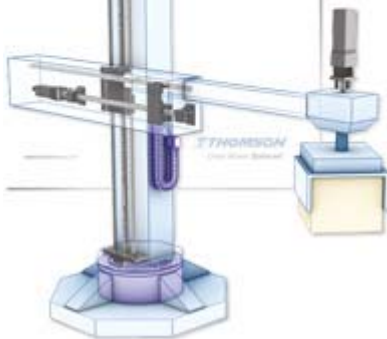
+ applications/tools/products



Motion Solutions for Packaging Applications

Optimise life, performance and cost of your packaging machines with the broadest line of rotary and linear motion components.

Thomson is deeply experienced with the critical motion-control challenges of the packaging industry, and we have developed quality products and solutions to address them.



Read about Thomson's capabilities for packaging industry applications and see dedicated application examples in our recently updated **brochure "Motion Solutions for Packaging Applications"**:

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