



ROUNDRAIL LINEAR GUIDES & COMPONENTS

Thomson invented the Ball Bushing Bearing over 60 years ago and has since been the recognized leader in this field. Our linear products provide low friction, smooth, accurate straight line motion. Offering the widest range of bearings and accessories, we easily satisfy the widest range of requirements for your application.

PROFILE RAIL

Thomson is the one-stop source for all your profile rail needs. We feature sizes ranging from our ultra-compact 5 mm MicroGuide™ to the robust 55 mm 500 Series roller, as well as compliance ranging from our 400 Series transport profile rail to the extremely rigid, machine tool-grade roller profile rail.

LEAD AND BALL SCREWS

Thomson lead screws offer smooth, precise, cost-effective positioning for your linear motion requirements. We offer the widest range of ball screw products in the industry – including rolled and ground thread screws in both imperial and metric sizes. Both include our patented zero-backlash nut technology for excellent repeatability with high stiffness and extremely low drag torque.

CLUTCHES AND BRAKES

Our wrap-spring and friction clutch and brake products work in a wide range of applications specific to the food processing industry. These products set a solid foundation for the broad range of standard and custom products currently available to our customers.



GEARHEADS

Thomson Micron® planetary gearheads are used on high-precision motion control applications that require a high torque-to-volume ratio, high torsional stiffness and low backlash. Thomson offers these precision planetary gearheads for all duty cycles, and all with RediMount compliant mounting systems. Web-based sizing, selection, pricing and 3D models of Micron gearheads are available online.



PRECISION LINEAR ACTUATORS

The compact design and higher load capacities of our precision linear actuators make them ideal for flexible integration in tight areas. These programmable precision linear actuators are available in a wide range of voltage, thrust, stroke and mounting configurations. They are designed for high-speed, high-load, continuous operation.



LINEAR ACTUATORS

Our linear actuators are designed for rugged, reliable linear motion applications. Numerous choices in stroke, load, motor type, feedback, limits and control options make these linear actuators very versatile. Talk to us about the many advantages of using electric linear actuators in place of hydraulics or pneumatics.



LINEAR MOTION SYSTEMS

Our linear motion systems can be used virtually anywhere. They can support and move a range of loads and provide high precision and tight tolerances. They are available pre-engineered, pre-assembled or ready-to-install. The load can be supported with ball guides, slide guides or wheel guides. Actuation can be through ball screw, lead screw or belt drive.