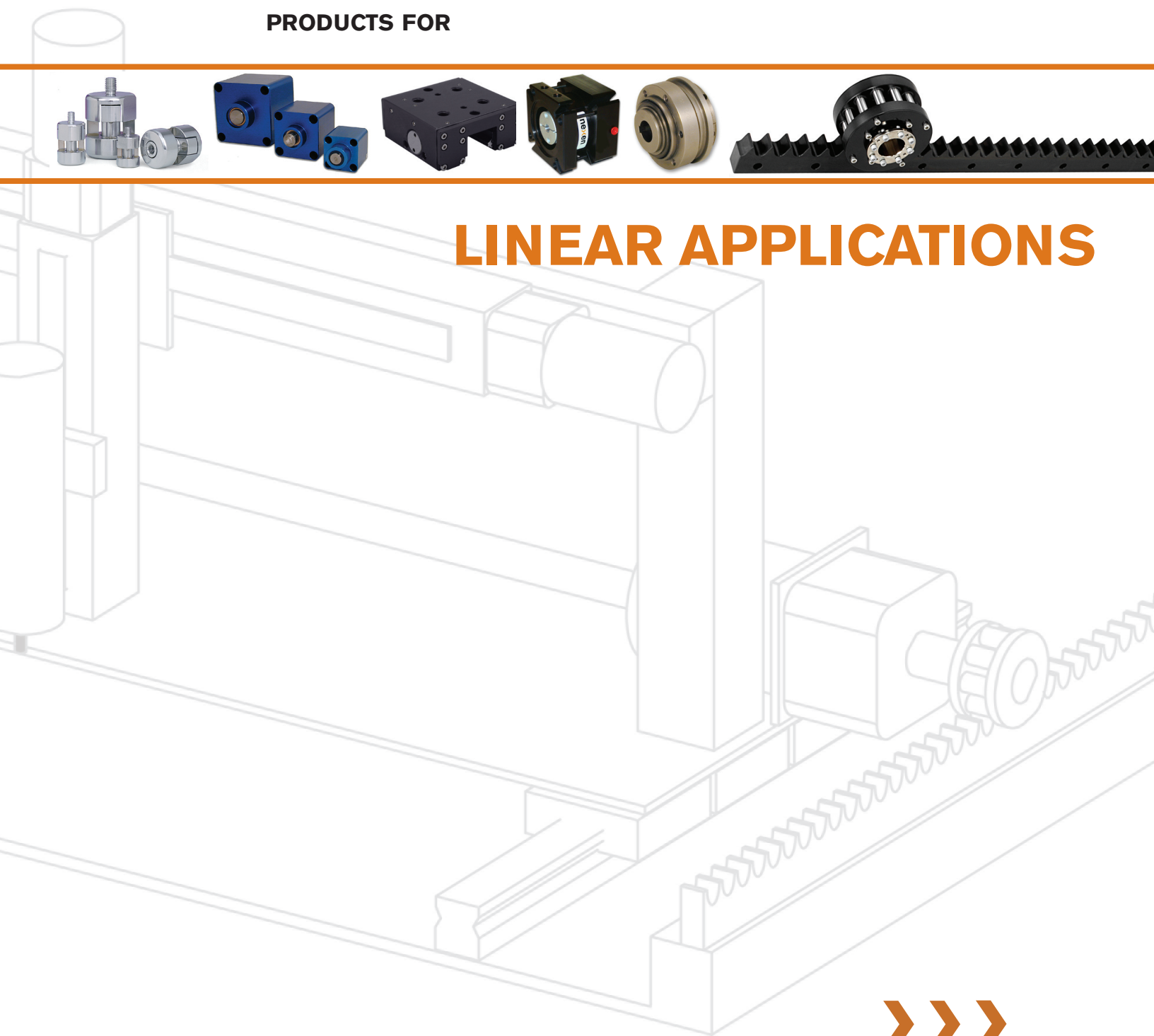


PRODUCTS FOR



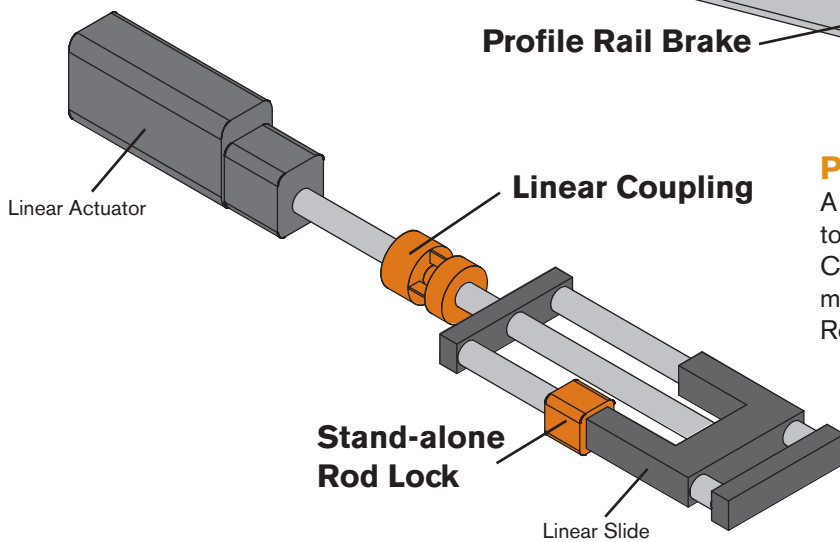
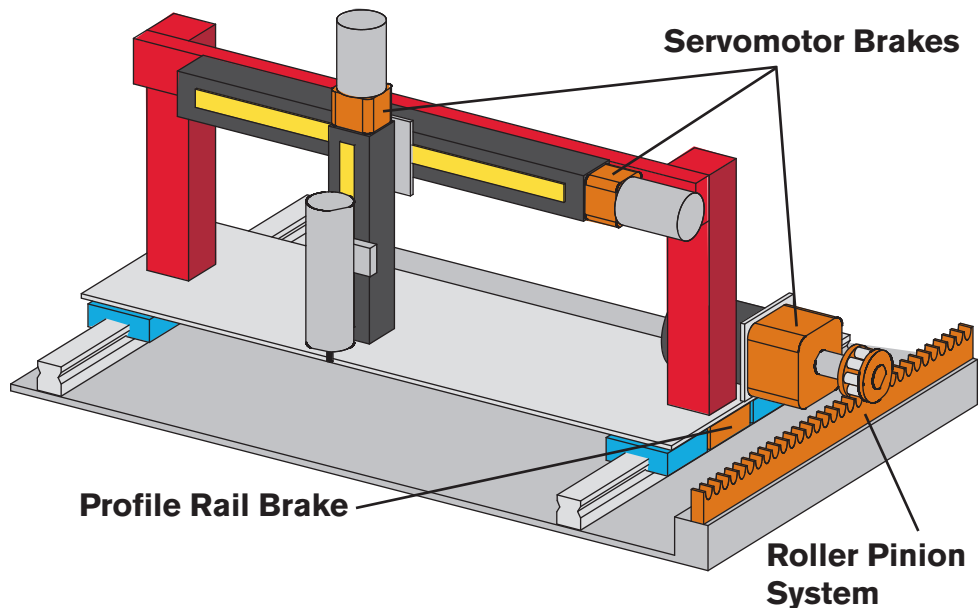
LINEAR APPLICATIONS



Linear Motion Control Applications

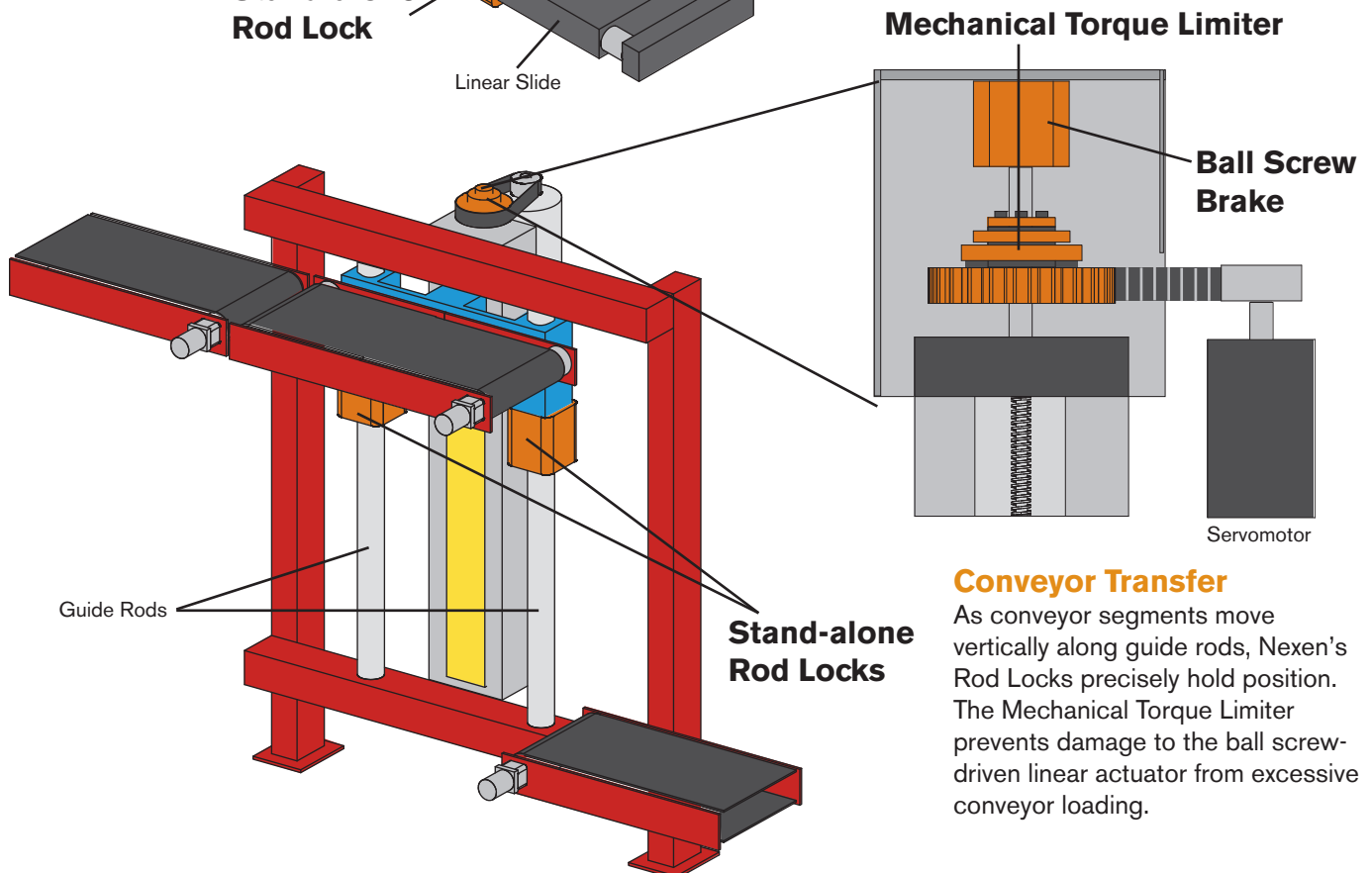
Gantry Systems

Controlling motion on all axes, Nexen's Servomotor Brakes, Ball Screw Brakes and Profile Rail Brakes provide precise holding with little or no backlash. Also, Nexen's Roller Pinion System enables gantrys to move long distances, at high speeds with no accumulated error and zero backlash.



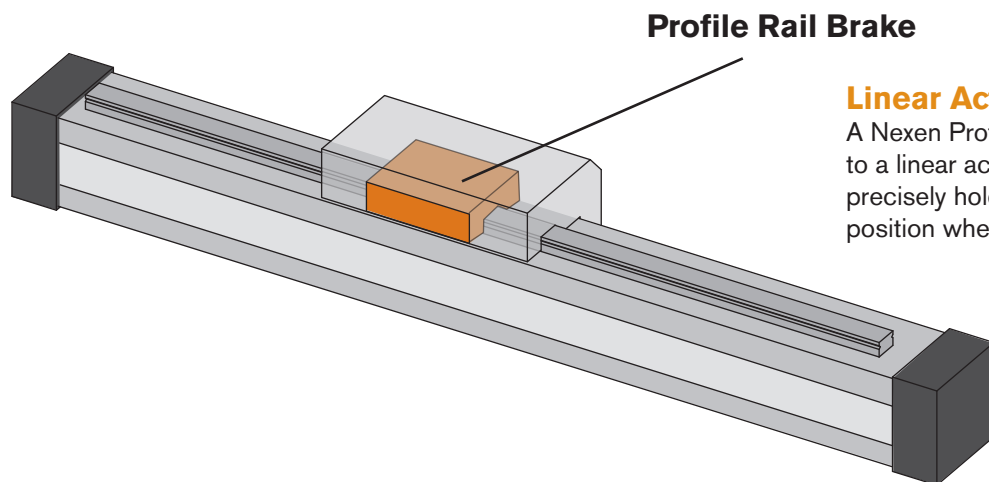
Positioning System

A linear actuator is precisely coupled to a linear slide using a Nexen Linear Coupling. Once the guide rods have moved to their destination, a Nexen Rod Lock holds them in position.



Conveyor Transfer

As conveyor segments move vertically along guide rods, Nexen's Rod Locks precisely hold position. The Mechanical Torque Limiter prevents damage to the ball screw-driven linear actuator from excessive conveyor loading.



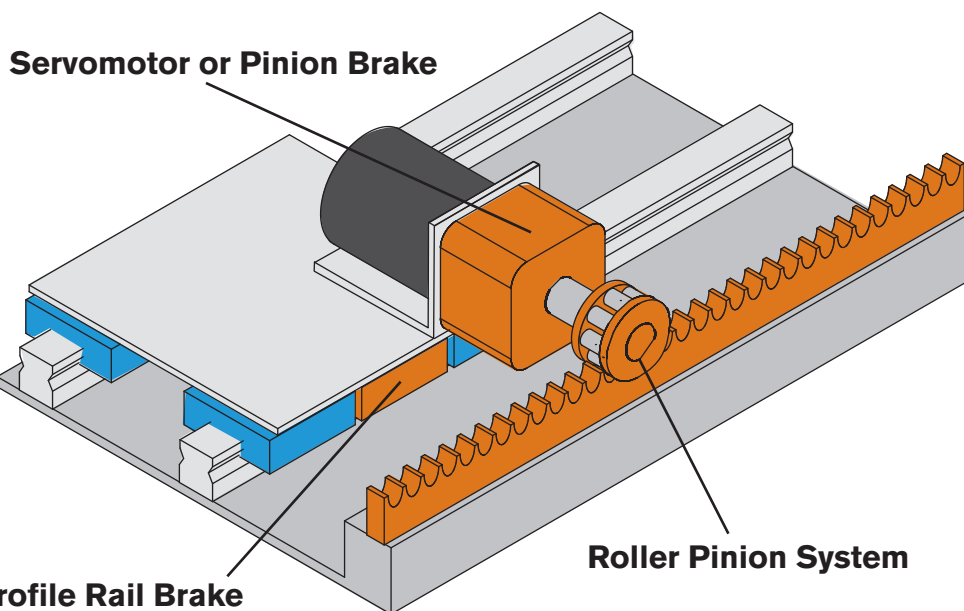
Profile Rail Brake

Linear Actuator Systems

A Nexen Profile Rail Brake, mounted to a linear actuator's carriage, precisely holds the carriage's position when stopped.

Linear Bridge Plate System

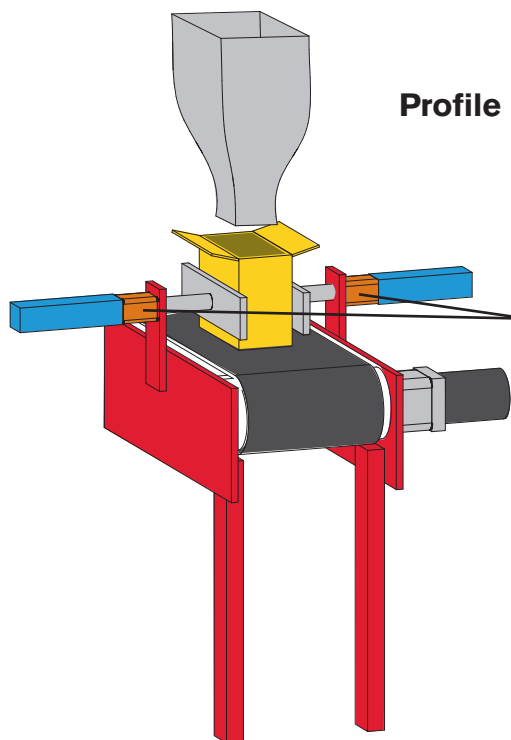
Nexen's Roller Pinion System enables bridge plates to move long distances, at high speeds with no accumulated error and zero backlash. Servomotor and Profile Rail Brakes compliment the system by providing e-stop and holding capabilities in all axes.



Servomotor or Pinion Brake

Roller Pinion System

Profile Rail Brake



Cylinder-mounted Rod Locks

Filling Operations

As the container moves along a conveyor to the filling station, pneumatic cylinders accurately position the container under the product filling mechanism. Nexen Rod Locks hold the cylinder rods in precise position during the filling operation.

Linear Motion Control Products

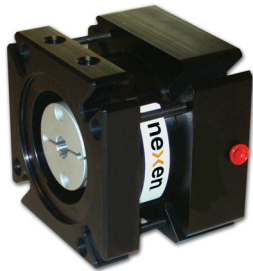


Spring-engaged and air-released, Nexen's **Rod Locks** for pneumatic cylinders and guide rods provide holding in power-off/e-stop situations. High clamping forces ensure positive holding with minimal air required for release. These powerful rod locks maintain accurate positioning and offer consistent performance – even in harsh environments.

A true alternative to traditional linear drive systems, Nexen's **Roller Pinion System** (RPS) is engineered to deliver accurate positioning, unlimited travel distances, extremely high speeds and zero backlash. Offering better performance and longer life than rack and pinion or ball screw systems, the RPS has models for a variety of linear motion applications.



Nexen's high-performance **Profile Rail Brakes** are spring-engaged and air-released for power-off, e-stop and holding applications. Each rail brake clamps directly on the center of the guide rail to provide positive braking and holding in all axes. And, Nexen has rail brake configurations and sizes to fit most popular guide rails.



The **Servomotor / Ball Screw / Stage Brake** from Nexen is a high-torque, spring-engaged, air-released brake. It serves as a redundant safety brake in the event of a mechanical defect in the drive line, particularly in the Z-axis. This zero-backlash brake provides a high degree of accuracy for holding the position in power-off situations.

Mechanical Torque Limiters from Nexen eliminate torque overloads caused by material jams, operator error and a whole host of unforeseen reasons that contribute to machine downtime. Nexen's Mechanical Torque Limiters are backlash-free and torsionally rigid, in a compact, simple design. They provide precise overload protection and are available in single- or multi-position re-engagement, and full disengagement designs.



Nexen **Linear Couplings** have a patented high capacity spring system that absorbs parallel misalignment up to 0.7 mm and angular misalignment up to 1.5 degrees. It has zero axial backlash under all operating conditions and is virtually maintenance free. Linear couplings can be used to provide angular and parallel alignment in a variety of precise linear motion applications; from linear actuators and motors, to positioning sensors and electric or pneumatic cylinders.

In accordance with Nexen's established policy of constant product improvement, the specifications contained in this document are subject to change without notice. Technical data listed in this document are based on the latest information available at the time of printing and are also subject to change without notice. For current information, please consult www.nexengroup.com

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