



Linear Motion Control Applications



Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



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 airreleased 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-postion 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.

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Nexen has sales offices throughout the United States, Europe, Japan, and Australia. ISO 9001 Certified

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