



PRODUCTS FOR THE

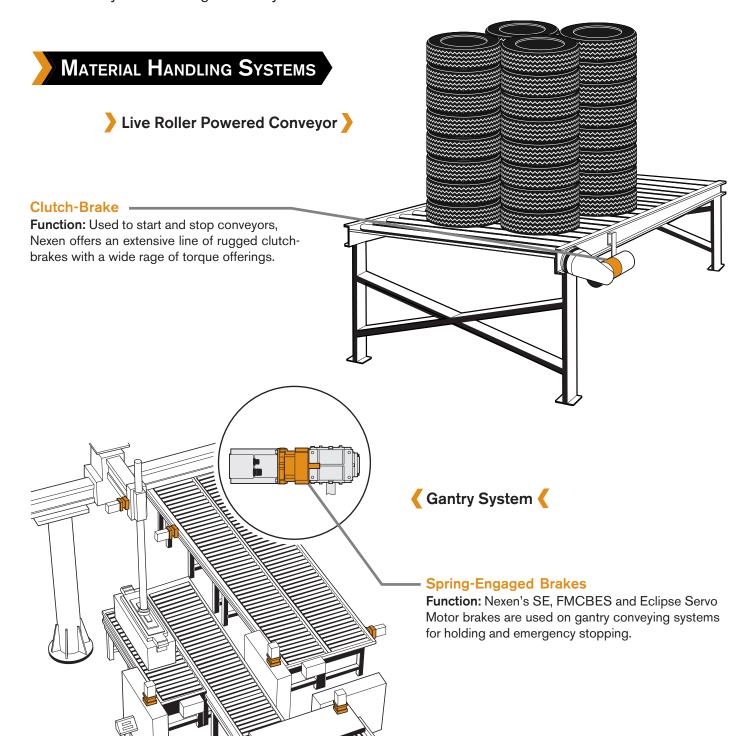
TIRE INDUSTRY

APPLICATION GUIDE

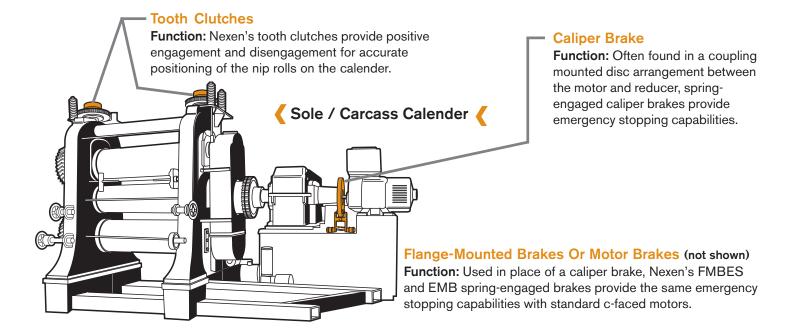
NEXEN SOLUTIONS FOR YOUR TIRE PROCESSING CHALLENGES

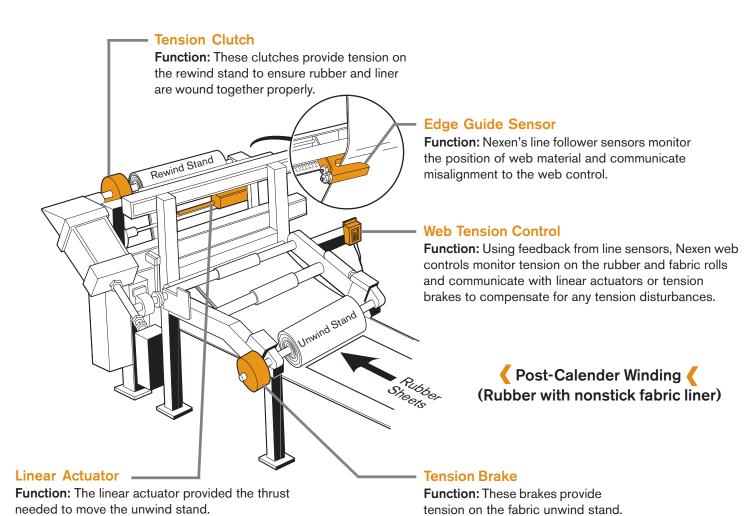
As an internationally recognized industry leader offering a full range of motion control products as well as comprehensive custom engineering services, Nexen prides itself in producing the best brakes, clutches, clutch-brakes, and torque limiters in the industry. Simple designs with limited parts make these units easy to install and maintain. Nexen offers low-cost motion control products for sole and carcass calenders, belt preparation, carcass molding, sole bonding, tire building, and tire trimming processes. We also have a wide range of products suited for post-processing operations such as material handling, packaging and labeling.

Nexen has been proving for years that our spring or air-engaged products last longer, respond faster, provide more torque and thermal horsepower, and consume less energy than comparable electric units. Find out for yourself. We guarantee your satisfaction.



CALENDER OPERATIONS





Nexen Product Briefs



Designed to dissipate heat away from the unit, Nexen's tension control brakes and clutches have high thermal capacities and long operating lives. Multiple actuators allow for versatile, precise tension control. Installation and maintenance are made easy by simple connections. Offering complete tension control systems for open-loop/diameter compensating and closed-loop/load-cell (sensor) based tension control, Nexen's web controls and sensors work together to maintain the perfect tension. The load cell system produces accuracy of 1-2%; open-loop is about 8-10% accurate. Our linear actuators feature a built-in limit switch and positive thrust on wind and unwind stands.





Nexen offers both flange and shaftmounted clutch-brakes for consistent control and accurate positioning on conveyor systems. A variety of designs and torque offerings for each mounting style provide a low-cost solution ensuring dependable motion control.



Nexen's tooth clutches provide fast, nonslip engagement in high torque applications. Inexpensive to operate and maintain, these clutches provide all the torque you need in a small package.

- Torque: 2.3-6214.1 Nm [20-55,000 in-lb]
- · Multi-position and single position
- Positive engagement
- Flange or pilot mount

Designed for use in e-stop, controlled deceleration and holding applications Nexen's spring-engaged brakes have a high dynamic torque capacity that insures fast load response time.

- Torque: 2.3-6214.1 Nm [20-55,000 in-lb]
- · Straight and tapered-bore shaft mounting
- NEMA C-faced mounting
- Servomotor brakes available





Nexen carries a variety of caliper brakes ideal for holding, e-stop, and controlled deceleration situations. Choose from ten standard models or we will custom design to fit your application.

- Torque: 2.3-5649.2 Nm [20-50,000 in-lb]
- Detent pins for quick facing changes
- · Simple Design, easy to maintain
- Disc diameters: 203-620 mm [8-24 in]

nexen.

Headquarters/The Americas

Nexen Group, Inc. 560 Oak Grove Parkway Vadnais Heights, MN 55127-8509 Phone: 1-800-843-7445

or 651-484-5900 Fax: 651-286-1099

Australia

Norman G. Clark (A/Asia) PTY. LTD. 44 Kylta Road

West Hiedelberg, Victoria 3081 Australia

Phone: 61-3-9457-5833 Fax: 61-3-9457-5781

www.nexengroup.com

Europe

Nexen Europe Group Koningin Astridlaan 59, B12 1780 Wemmel, Brussels, Belguim Phone: (32) 2 461-0260 Fax: (32) 2 461-0248

Japan

Nexen Japan Group 3-3-1-403, Midori-Cho Fuchu-City, Tokyo 183 Japan Phone: 81-423-36-3533 Fax: 81-423-36-6534

For additional information and product specifications, please contact your local Nexen sales representative. Consult the Nexen website listed above for an office near you.

21160-A-0203

© Nexen Group, Inc. 2003 ISO 9001 Certified