



PRODUCTS
FOR THE

MATERIAL HANDLING

INDUSTRY

APPLICATION GUIDE

NEXEN SOLUTIONS FOR YOUR CONVEYOR CHALLENGES

A leading manufacturer of motion control components for the conveyor industry, Nexen offers a wide range of products designed for use in a variety of material handling applications. Over the years this industry has come to recognize Nexen's Air Champ® line of pneumatic clutches and brakes for durability and reliability at economical prices. Our spring-engaged or air-engaged products provide more torque and last longer than comparable electrically-engaged units—we guarantee it. Nexen is committed to meeting the motion control needs of any powered conveyor application.

Friction Clutches

Nexen's friction clutches are ideal for use in cycling/indexing, controlled acceleration, and soft start applications. Operating with static air, they are more efficient and last up to six times longer than electric clutches.

- Torque ratings from 5–10,000 in-lb
- Pilot mount (sprocket mounting)
- Simple design - few moving parts
- Self-adjusting for friction material wear
- Air engaged / Spring released
- Single & dual plate clutches available
- Mounts on drive shaft or jack shaft
- Low initial cost
- Inexpensive to operate, maintain, and repair



Tooth Clutches

Nexen's tooth clutches provide fast non-slip engagement applications where high torque is needed. Inexpensive to operate, maintain and repair, these clutches provide all the torque you need in a small package.

- Torque ratings from 20–55,000 in-lb
- Fits shaft diameters from 5/8 – 3 1/16 in
- Positive engagement – no slippage
- Multi-position and single position
- Pilot mount (sprocket mounting)
- Air engaged / Spring released
- Standard open design or totally enclosed



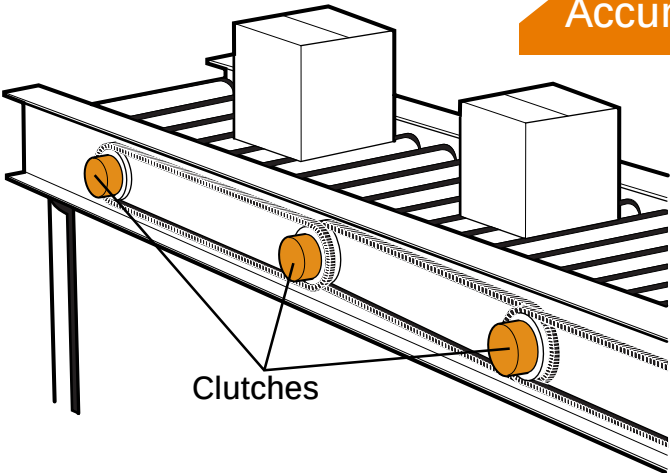
Spring-Engaged Brakes

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 ratings from 20–55,000 in-lb
- Straight and tapered bore shaft mounting
- NEMA C-face mounting
- Servo motor brakes available
- Spring engaged / Air released
- Few moving parts insure durability and dependability
- Enclosed units for dirty, dusty or wet environments

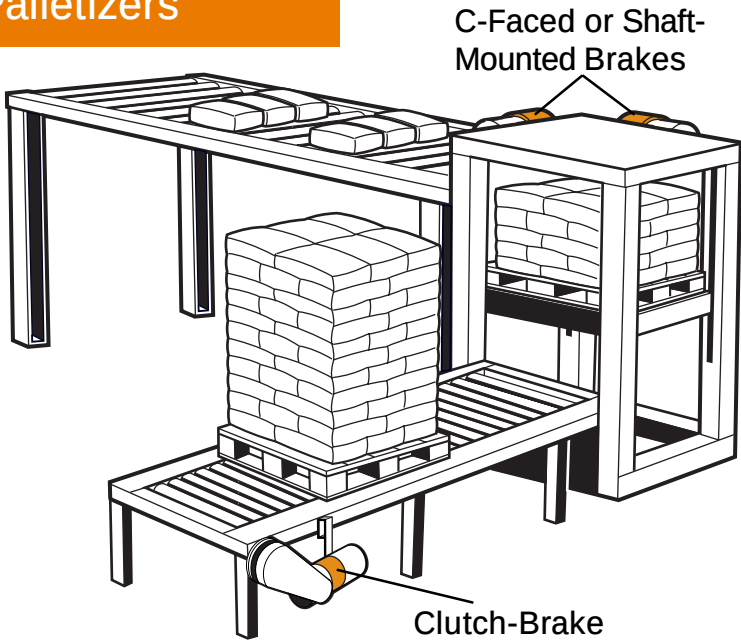


Accumulating Conveyor



Clutches

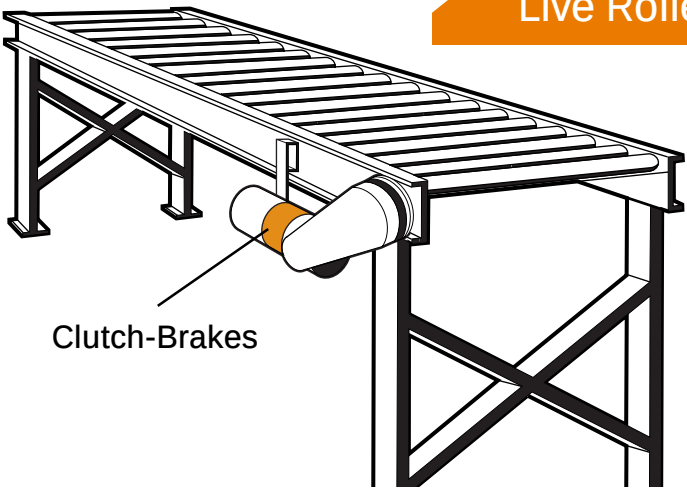
Palletizers



C-Faced or Shaft-Mounted Brakes

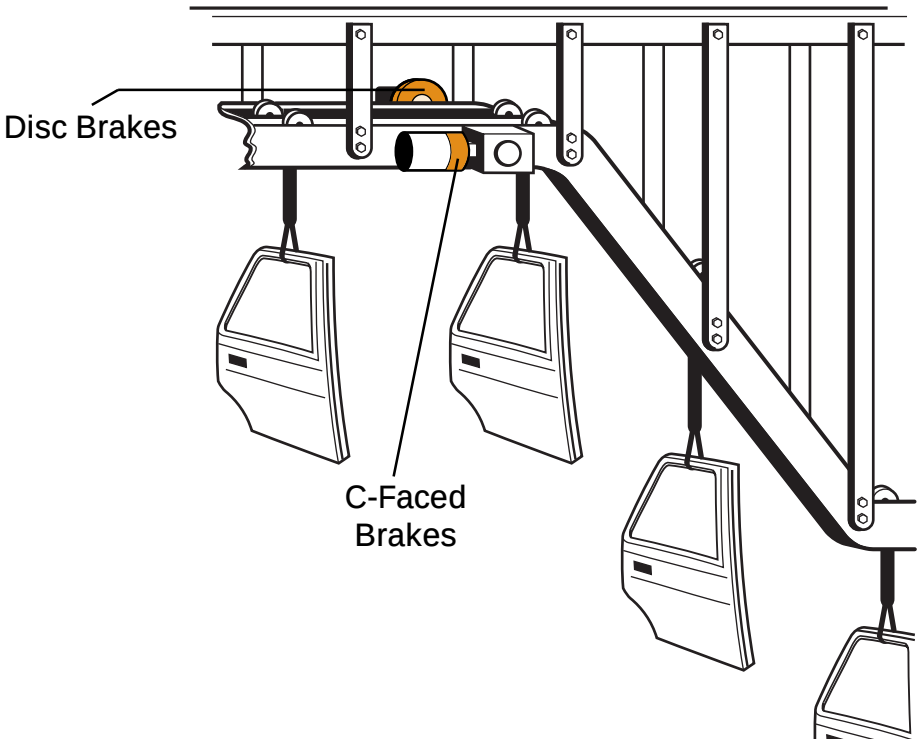
Clutch-Brake

Live Roller Powered



Clutch-Brakes

Overhead Conveyor



Disc Brakes

C-Faced Brakes

Flange-Mounted Clutch-Brakes

Nexen's flange-mounted clutch-brakes provide consistent control for cycling, accurate positioning, controlled acceleration and deceleration, high inertia start/stop applications.

- Torque ratings from 85–2,000 in-lb
- Fit NEMA frame sizes 48Y to 256TC
- Standard NEMA frame sizes make it easy to replace existing electric clutch-brake modules
- Accommodates 1/2–20 HP motors
- Self-adjusting for friction material wear
- Flange or foot mount capability
- Single piston design eliminates clutch-brake overlap
- Optional Locking Key eliminates key wobble and roll over
- Optional Integral Valve units allow for simple installation
- Up to six times longer operating life than electric units
- Simple design means easy, quick and inexpensive maintenance
- Enclosed units for dirty, dusty or wet environments



Shaft-Mounted Clutch-Brakes

For controlled acceleration and deceleration, inching and jogging, stopping and holding, and accurate positioning applications, Nexen's shaft-mounted clutch-brakes provide high cycling rates and long unit life.

- Torque ratings from 10–2800 in-lb
- Through shaft mounting on driven shaft
- Friction brake and clutch combined into one compact unit
- Pilot mount, sprocket mounting
- Accommodate shaft diameters from 1/2 – 1-7/8 inches

- Air engaged / Spring released
- Maintains torque rating without manual adjustment
- Inexpensive to operate and maintain



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

- Torque rating from 20–50,000 in-lb
- Air engaged / Spring released models
- Spring engaged / Air released models
- Disc diameters from 6–24 inches
- Adjustable caliper spacing for various disc widths
- Detent pins for quick facing shoe removal
- Simple design— easy to maintain



Caliper Brakes



nexen®

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