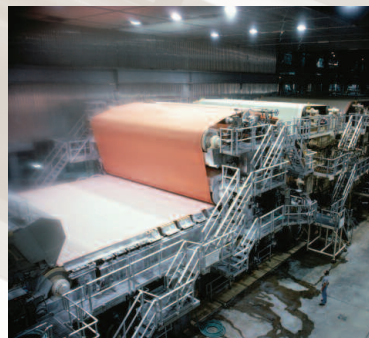


Power Transmission Products For Tension Control Systems



An Altra Industrial Motion Company

Wichita Clutch offers the most complete product line dedicated to the tension control market



Wichita Altra Sonic Tension Controller

The Wichita Altra Sonic is an open loop analogue regulated tension controller designed to maintain stable web tension during the steady running phase of unwinding and rewinding operations. Simple to set up and use, the Altra Sonic is an analogue device that enables the tension control user to save on the cost of buying and commissioning one of the more complex digital controllers from the Wichita range.

Altra Sonic Features

Consistent web tension

Working in an open-loop configuration the controller receives an input from a scalable ultrasonic sensor, or a reel follower arm monitoring the change in diameter of the unwind or rewind reel on the machine, then adjusts the applied torque proportionately according to the reference settings programmed into the brake driver.

Remote operation and clear display

The brake on the machine can be operated from the Altra Sonic during loading and unloading of reels, also via an optional external switch positioned by the brake.

Easy set-up

Setting up the controller is straight forward. The Altra Sonic receives its input from a scalable ultrasonic sensor. The output signal is sent to an EPC-V brake driver, which converts the electrical signal to pneumatic pressure for the brake.

- User friendly three part system
- Better quality
- Lower cost



Wichita Altra Easy Tension Controller

The Altra Easy high performance tension controller offers probably the most versatile web tension control system on the market today.

Whether your interest is as a system integrator, maintenance, production or a quality control manager the powerful tools will be of benefit to all.

The intuitive suite provides graphical management of commissioning.

This controller handles a wide range of tension control applications including winders, unwinders, pneumatic brakes via appropriate drivers. The one unit interfaces with load cells, dancers and diameter measurement devices as well as handling splicing.

Altra Easy Features

- Data logging and diagnostic software tools included
- No complicated menus
- For use with load cells or dancers
- MODBUS communication
- Diameter functions
- Graphical PID tuning and configuration
- No internal adjustments required
- 24V Supply
- A range of support products available



Wichita Altra Steady Tension controller

Dedicated for electric brakes and dancer arms, the Altra Steady is a low cost controller with improved performance.

It features separately adjustable PID's and is the controller of choice for Tension Control on a tight budget with a simple dancer application.

AltraSteady - analogue closed loop tension controller dedicated to dancer and electric brake.

Features:

- Separately adjustable P, I and Ds;
- Brake release (brake on brake off);
- Can power two tension brakes in parallel;
- Suits simple applications;
- Retrofits all existing 202 applications.

AltraSteady+ - analogue closed loop tension controller built for use in wide range of tension applications. Separate adjustment for P, I and D parameters. The controller is suitable for dancer and many industry standard load cells. It can utilise pneumatic and electric brakes. 0-10 V output;

- Dancer sensor type: $\pm 15\text{vdc}$;
- Scalable Load Cell input usable with many industry wide LC;
- Hi/Lo gain, Switchable for large diameter ratio change;
- Brake Off/On;
- Suits simple applications;
- Retrofits all existing 202 applications;
- Auxiliary power supply output: 24 VDC, 100mA.



Mistral Tension Brakes

Mistral can be applied on corrugator mill roll stands where the reel is being unwound. As the reel is unwound, a brake is required to control and maintain consistent tension on the roll of paper as it is processed.

Mistral tension brakes are ideal for corrugator upgrades of existing mill roll stands because they provide:

- Increased production through faster line speeds (up to 1480 ft./min.)
- Better, more consistent tension control - enables more consistency of the flute height, width and strength, and fewer folds or wrinkles in the facer or liner, which means fewer jams due to mis-folding in the folder/gluer process.
- Reduced maintenance costs through easy installation and maintenance
- Cost reductions through down time avoidance - longer life and easy rebuild

Mistral Features

- Extremely compact (11.6" or 16.1" diameter)
- Standard or Lo-Co friction lining
- Multi-actuator design (standard or mini actuators), allowing precise selection of brake torque capacity for optimum tension control
- Integral cooling fan for high heat dissipation
- Integral guarding eliminates the cost and effort of installing external guards
- Wear indicator for friction pads
- Easy access to air and electrical connections for fast, simple maintenance and serviceability
- Quick disconnect power supply
- Torque range exceeding 15,900 in.lbs.
- Optional speed sensor or infrared sensor for roll center detection

Model	Dynamic Slipping Torque Capacity (80 psi)	Max. Speed (rpm)
200	7,965 lb./in.	2,860
280	15,930 lb./in.	2,090



ModEvo Tension Brakes

Some corrugators can now be retrofitted to handle line speeds in excess of 2,000 ft./min. ModEvo air tension brakes provide smooth control at these speeds while providing maximum strength with minimum weight. Being bi-directional enables ModEvo to achieve high heat dissipation capacity in either rotational direction. ModEvo tension brakes are ideal for corrugator upgrades of existing mill roll stands because they provide:

- A wider operating torque range than many other brake designs, which means they can run at a wider speed and tension range
- A wider heat range than most competitors (2.8 - 5 Kw)
- Economical replacement parts
- Easy serviceability

ModEvo Features

- Available with five disc (diameter) sizes, 250 mm, 300 mm, 350 mm, 400 mm and 450 mm diameter
- Maximum torque range flexibility - torque capacity from 659 lb.ft. to 3,181 lb.ft.
- Brake module is common to all sizes of disc diameters and incorporates two rolling diaphragm actuators on each side of the disc
- Three actuator options: 100%, 60%, and 25%
- Actuators are switchable for precise tension control over a wide choice of web materials
- Two friction pad coefficients: Lo-Co (0.20) and Standard (0.35)
- Each brake can have three different efficiency actuators and two different friction materials. Friction material can be observed and changed without dismantling the brake.
- Optional fan and guard available for safety and airflow
- Universal adaptor/back plate is available, if required, to allow mounting the brake onto an existing machine frame
- Four bracket mounting to existing machine frame

Model	Torque Capacity (in. lbs.)	Max. Speed (rpm)
250	7,908	2,250
300	13,380	1,900
350	20,180	1,650
400	28,360	1,450
450	38,160	1,250

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Worldwide support and distribution

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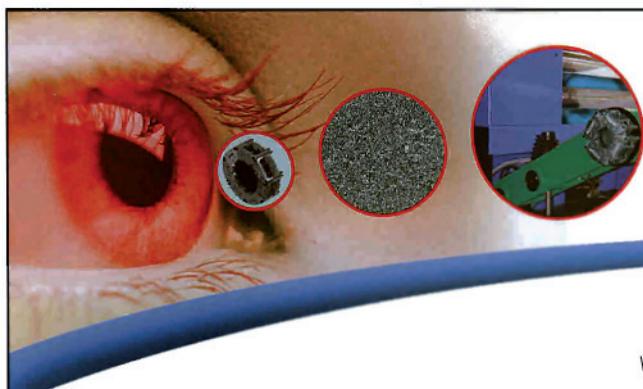
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Wichita Clutches, Brakes and Controls are designed for a wide range of Industrial, Mining and Marine applications from smooth tension control of unwinding machinery to heavy-duty startup drives

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