

Introducing Montalvo's TSC™ Open Loop Torque Sensing Control System

NEW
PRODUCT

The TSC™ is a total tension control solution that delivers performance, convenience, and productivity. Simple, compact and easy to install and operate, the TSC is the latest innovation in open loop tension control. *Patent pending technology* allows easy integration into *existing* machines as well as *new* machine builds.

Customizable System Packages

Select TSC system components based on the needs of your application to create a unique total tension control solution.

TSC Components

TS1 Torque Sensor
V / CS Series Brake
U4 Open Loop/Diameter Tension Controller
US4 Ultrasonic Sensor or Proximity Sensors
M4 Analog Tension Meter
MPC4 I/P Converter

Easy Installation, Set Up & Operation

Save time with quick and easy installation and set up, while still providing simple to use operation.

Reduces Machine Build Cost

The TSC eliminates the need for additional rollers and load cells while still providing precise, consistent tension control.

Easily Upgrade Existing Machines

The TSC system easily integrates into existing machines, working with existing components or new TSC components as needed.

The U4 - Advanced, Fully Featured Tension Controller

Featuring soft start, anti-coast, taper tension, 0-10V or 4-20mA output, programmable diameter alarms, the ability to save up to 9 different tension process parameters, and more.

Smooth, Precise, Repeatable Tension Control from Full Roll to Core

Montalvo's performance driven V and CS series tension brakes feature industry leading linear torque delivery, wide torque ranges, high heat dissipation, high quality construction, and reduced maintenance time.

Compact & Space Saving Tension Control Package

Performance Driven, High Quality Components

FIND OUT MORE...

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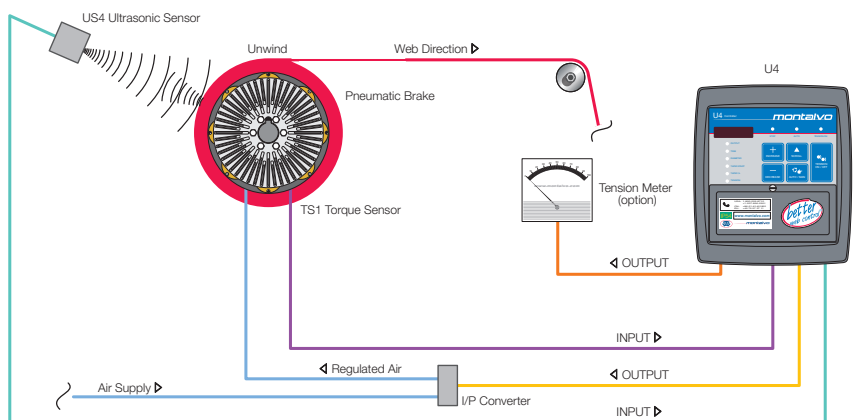
TSC™ Applications

The TSC is ideal for applications where...

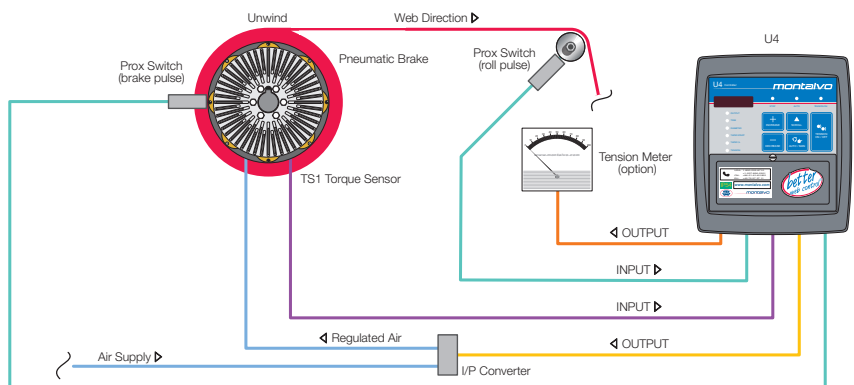
- The machine cannot accommodate load cells or retrofits (space limitations, costs, etc.).
- There is no defined web path or web is traveling directly from unwind roll into the process.
- The web cannot be contacted after unwind by rollers or requires minimal roller contact (ex: coating, films, foils, etc.).
- Multiple unwind stands that each require cost effective, simple control, and a simple web path (ex: sheeters).
- Existing open-loop system, but want to improve consistency and quality of your production.
- Utilizing a PLC or similar system and want to control torque with minimal modification and effort.

TSC™ How It Works

Ultrasonic Sensor Input



Proximity Switch Input



T S 1
T O R Q U E
S E N S O R

U 4
T E N S I O N
C O N T R O L L E R

+

D I A M E T E R
S E N S O R

A N A L O G
M E T E R

I / P
C O N V E R T E R

=
T S C

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