

Tension Control Products, Services and Solutions



Montalvo Load Cells.

Our input will improve your output.

Do you know the exact tension in your moving web? Only load cells provide the accurate, repeatable tension measurement you need to monitor and control your web processing.

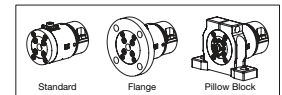


Load Cells for Dead Shaft Idler Rollers



ES-Series *Extended Sensitivity Idler Roller Load Cells*

The idler shaft version provides safe, secure support of a dead shaft idler roll. Available in a variety of load ranges, three mounts and two body sizes.

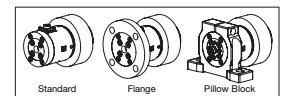


Load Cells for Live Shafts



ES-Series *Extended Sensitivity Live Shaft Load Cells*

The live shaft version provides safe, secure support of a live shaft idler roll. Available in a variety of load ranges, three mounts and two body sizes.

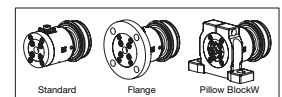


Load Cells for Live Rollers



ES-Series *Extended Sensitivity Live Roller Load Cells*

The live roller version provides safe, secure support of a live roll. Available in a variety of load ranges, three mounts and two body sizes.



U-Series *Under Pillow Block Load Cells*

U-Series are used in conjunction with pillow block mounted bearings and a shaft to create a durable and precise tension roll that's easy to install. With an IP67 rating the U-Series offers an extreme level of protection and performance for applications in wet, dusty, chemical, corrosive or other harsh environments.

A4 Digital Amplifier Modules

The A4 combines simplicity and functionality in a small enclosure. It's compatible with all Montalvo load cells and most other load cells.



M-Series Analog Amplifier Modules

Available in 5 versions to meet load cell gauge type, voltage and adjustment/ measuring properties.

Load Cells for Special Applications / Installations



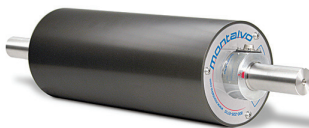
X-Series Narrow Web and Ribbon Width Cantilever Load Cells

The newest addition to narrow web cantilever style load cells is **XN**. It is completely customizable to meet customer specifications up to 8" width. The **XR** is customizable to meet customer specifications in ribbon and filament applications.



N-Series Cantilever Load Cells

The N-Series are designed for webs on single side frame machines, such as tag, label and tape machines. They incorporate semi-conductor strain gauges at each end of the roller to produce output signals which are proportional to the tension in the web. The sum of the signals represents the average tension across the web. Three sizes, two mounts, multiple load ranges and roll widths.



TNT-Series Tension Sensing Rolls

The TNT-Series combines a Montalvo engineered, uniquely sensitive, strain gauge system coupled with a durable, high performance, lightweight aluminum tube to produce an integrated sensing roll that fits virtually any application. Flexible mounting options and a wide variety of sizes and load ranges make the TNT a versatile machine component for both OEMs and end users.



LCR Load Cell / Roll Assemblies

The standard LCR is manufactured to customer specifications using aluminum extrusion, which is ideal for low start-up inertia. It is available with extra low drag, maintenance free bearings, a wide variety of load ranges, mounting options, roll materials and roll finishes to fit virtually any application.

Tension processing keeps getting better.

Montalvo System 4 , the broadest range of web tension control technology available! Precise load cell control, dynamic dancer control, non-contact ultrasonic control. Open loop, closed loop or any combination. System 4 offers what you need.

Unwind/Rewind Zone Control for Load Cell Input

Montalvo Controller Features and Benefits

- ▶ CE compliant
- ▶ IP54 enclosures
- ▶ Multiple mounting options



S4 Multi-Zone All Digital Tension Controller

Montalvo's new S4 load cell based controller provides precise, accurate, and consistent tension control in a compact, modular unit. The long list of features include Soft Start, Anti-Coast, Taper Tension, Splice, Inertia Compensation, Web Break Detection, Remote Setpoint, Remote Control of Tension On/Off, Compatibility with strain or foil gauge load cells, Compatibility with pneumatic or electric brakes or drives, Storage of up to 15 Parameters, Remote Meter Output and Progressive Gain Technology for uniform control regardless of roll diameter.



Z4 Tension Controllers **NEW**

An advanced family of zone controllers to meet the demands of any application.

Zone Options

- Unwind
- Intermediate/Nip
- Rewind

Feedback Options

- Load Cell
- Dancer
- Non Contact

MDP-6 Dancer Potentiometer



Only with Montalvo Tension Controllers



Unwind/Rewind Zone Control for Non-Contact Input



US4 Ultrasonic Sensor

The US4 ultrasonic non-contact diameter sensor works in conjunction with Montalvo's U4 or Z4 controllers. Features include extended range, temperature compensation and push button configuration.



DPS-1 Dancer Position Sensor

A micro-electric, no wear sensor that provides fast/accurate dancer position or diameter signals to dancer controllers.



U4 Multi-Zone All Digital Tension Controller (open loop)

The all NEW U4 Diameter/Open Loop Tension Controller brings advanced features (typically found only in closed-loop control systems) such as Soft Start, Anti-Coast, and Taper Tension, to open-loop tension control. Compatible with a variety of inputs, the U4 ensures accurate tension control from full roll to core.

Torque Sensing Control System (TSC) *NEW*

Simple, compact, easy to install & operate – The TSC system is the latest innovation in open loop tension control with patent pending technology that easily integrates into existing machines and is versatile to meet the parameters of new machine builds.

Components

- **TS1** Torque Sensor
- **V** or **CS** Series Brake
- **U4** Tension Controller
- **US4** Ultrasonic Sensor
- **M4** Analog Meter



It's all about output...

Brakes, Clutches & Related Products for Any Web Application



**Original
Montalvo
Friction Pads**



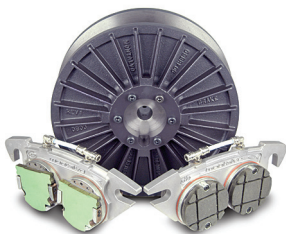
V-Series *High-Performance Single Disc Brakes*

Montalvo's V-Series brakes feature industry-standard high heat dissipation friction discs combined with all-new patented "no-tools" friction modules for quick and easy pad changes. From flexible packaging, to paper, to corrugated, the V250, V300, V400, V500 and V600 sizes offer the application range necessary for virtually any web process. Available in a variety of configurations, these brakes are easy to install. They are ideal for installing on new equipment as well as for retrofitting existing unwind stands. For extra heat capacity, all V-Series brakes are available with an integral cover and cooling fan.



HP-Series *High-Performance Dual Disc Brakes*

Montalvo HP-Series pneumatic tension brakes are the result of years of innovative design, engineering excellence and renown customer service in the converting industry. The HP is the benchmark for performance in all applications from board to tissue. Choose from a wide torque range of 0.23 to over 5762 Nm. Shaft bores are custom milled from 35 to 115 mm. Three types of friction pad/module designs are available.



Standard-Series *Dual Disc Brakes*

The Standard Series is Montalvo's innovative and original pneumatic tension brake. With its multiple range, high thermal capacity and compact design it has dominated the industry. Choose from a wide torque range of 0.23 to over 2260 Nm. Custom milled for shafts from 20 to 125 mm. Three types of friction pad/module designs are available.





Genuine Montalvo Friction Pads



Friction Modules and Parts



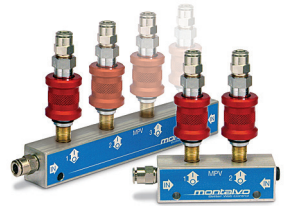
Safety Covers Mounting Plates



Air Filters I/P Converters



PDA Valves



Heavy Duty Push Valves

Guardian™ Safety Chucks *NEW*

The all new patent pending Guardian Safety Chucks deliver higher safety, easier installation, and longer service lives. All new replaceable inserts save you time and money for any required maintenance. Guardian™ Safety Chucks can also be combined with V Series Brakes for an out of the box, ready to install brake/safety chuck package.

Options

- Pedestal Mount
- Flange Mount
- Fixed Head
- Sliding Head
- Journal Styles
- And More....



SHOWN: G1800
(Fixed Head, Pedestal Mount)

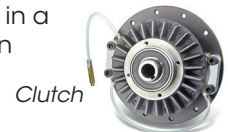
Automatic Range Expander

Combined with a properly sized Montalvo multi-range brake and our Z4 tension controllers, the Montalvo's Automatic Range Expander can allow the widest range of roll sizes and tensions to run properly on virtually any unwind application.



CS-Series Compact Single Disc Brakes and Clutches

CS-Series brakes and clutches are the cost-effective choice in light/medium duty tension control applications such as tag and label manufacturing, film manufacturing, slitter/rewinders, flexo printing and non-wovens/textiles. CS-Series are available in 100 and 130 sizes with multiple range control. The friction module may be assembled in a variety of configurations and may be purchased individually and used in conjunction with customer supplied discs.



Clutch



CD-Series Compact Dual Disc Brakes and Clutches

The CD-Series is a compact version of Montalvo's industry-standard, air-cooled dual disc brake design. Perfect for narrow web and similar light to medium-duty applications. The brakes are available in three sizes (100, 130 and 190) and the clutches are available in two sizes (100 and 130). Modules are configurable to meet customer torque specifications.



Clutch



HPS-Series High-Performance Single Disc Clutches

The HPS clutch is a low-inertia, single disc design offering advanced performance characteristics. The modular design and interchangeable parts makes flexibility, easy installation, setup, and maintenance. Available in three sizes (6, 8 and 10).

United States

Denmark

Germany

China

WEB TENSION EXPERTISE

Global Access For product information, product specifications or assistance with your application, visit us at www.montalvo.com, e-mail us at info@montalvo.com, call or fax us at our toll-free numbers, or call your local Montalvo representative.

Experience Montalvo has been serving the converting industry for over sixty-five years. In all that time we have learned more about tension control than most of the competition put together. Montalvo is a name synonymous with expertise. We take pride in what we make and the services we provide.

Communication We make it a point to be accessible. Why deal with a company that you can't communicate with? We have offices in Europe, Asia and the United States for your convenience.

Partnership We treat our customers as we would treat each other. And we're not about selling products, we're about building partnerships. When we ask our customers what the most stressful part of an upgrade is, they will undoubtedly say "startup". And that is why our customers rely on Montalvo to guide them through the steps of installation, startup and training.

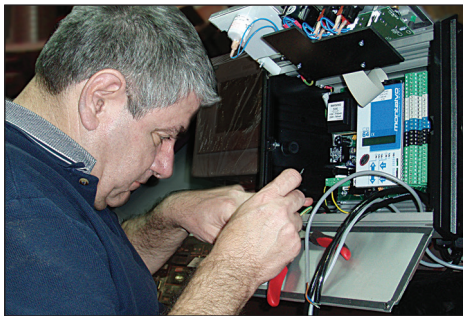
Quality If there is just one thing to say about Montalvo products it would be that they are the best quality available. We can't do any less. It's not in our nature. Our products are built quality first and quality that lasts.

Customer Service Whether you're inquiring about our products or services, requesting a quote or checking on the status of your order, you'll find that we put the customer first.

Installation / Start-Up



On-Site Service



Training



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