COMPOSITES
Tension Control

Better Web Control®
Automated, Continuous Production

Achieve More

High performance tension control is a relatively new concept in the composites industry. However, tension control is a critical component to achieving the next level of automated, continuous, high quality, high volume manufacturing which will be required as the demand for composites grows.

Montalvo has designed a variety of tension control solutions specific to composite manufacturing processes. Whether you have a hand lay application, filament winding, forming prepreg or utilizing pultrusion techniques, Montalvo has the tools & expertise to improve your process.

Achieve More!

- Automated Processing
- Continuous Processing
- Improve End Product Quality
- Reduce Scrap
- Increase Productivity
- And More!

Drop In Solutions

Montalvo's composite tension controls are designed to be drop in solutions for your machine. No need to invest in completely new machinery. Our equipment can fit within existing applications to ADD tension control to your application delivering a quick return on investment.
Different Materials, Different Properties, Different Tension Control Requirements

Kevlar has different tension requirements than fiberglass. Fiberglass has different requirements than carbon fiber. Different types of carbon fiber have different types of tension requirements. Even a carrier sheet in a hand lay application requires precise tension control to ensure your composite material doesn’t wind up as scrap.

Composites manufacturing requires precise, consistent, high quality tension control to ensure you end up with high quality product.

For more than 67 years Montalvo has been providing our customer’s not just the products to expand the capabilities of their machines, but providing them the expert tension control knowledge to give them long term results.
Multi Tow Tension Control

Modular Automated Tensioners

Under Control from the Start

Montalvo Modular Automated Tensioners are designed for multi tow/roving applications to provide consistent, high precision tension control on each individual strand of material. Montalvo MAT’s can be installed directly after tow/roving payout, or directly before your material enters processing. If applying resin to each strand of material the MAT will ensure a uniform and consistent coating for every single strand. Increase product quality, productivity, and profitability with Montalvo MAT’s.

It's as easy as....

1 Install MAT (Modular Automated Tensioner) at desired position in web path.

2 Thread material through the MAT nip and pull back all slack.

3 Run machine with the benefit of automated tension control as material enters the process.

Features & Benefits

✔ Customizable to Meet the Demands of Your Process
✔ Achieve Consistent, Higher Quality End Product
✔ Precise, Accurate, Consistent Tension Control
✔ Drop In Solution for Existing Applications
✔ Individual Tension Control for Every Tow
✔ Reduced Scrap
✔ Easy Operation
✔ Cost Effective
Montalvo Modular Automated Tension (MAT)

Tailored Upgrade Packages

Whether its bolt patterns, shaft size, space limitations, etc, Montalvo Composites Upgrade packages and modular tensioners are tailored for the specific requirements of each type of process, simplifying installation & maximizing performance.
Hand Lay Applications

Automate Your Process

Hand lay applications by their nature are manual and more often than not are slower processes. Montalvo Composite Tension Control solutions add automation and continuous processing to hand lay applications by accurately controlling tension on carrier sheets for unwind/payout and rewind/take up.

Features & Benefits

✔ Continuous Processing
✔ Automated Production
✔ Achieve Higher Quality End Product
✔ Reduce Scrap
✔ Precise, Accurate, Consistent Control for one or more rolls of material within a process
✔ Easy Operation
✔ Cost Effective

We Solve Tension Control Problems!

Stretching
Wrinkling
Breaking
Wandering
Delamination
And more...

Complimentary Upgrade Assessment

Montalvo Applications Specialists are available to assess your application and will let you know what would be involved in completing an upgrade and what type of performance upgrades you can expect to achieve. Contact us today to learn more.
BACK to BETTER WEB CONTROL
Things happen. And when they do, our first priority is to get you back up and running as quickly as possible without worrying about P.O.’s, paperwork, etc right away. We want your machine running.

LOCAL ACCESS
In Person, Phone, E-mail, or Online. Four worldwide offices (USA, Germany, Denmark, China). An authorized licensee and representative network throughout five continents. The local dependability you rely on.

UNCOMPROMISING SERVICE & SUPPORT
Whether you have a single question, need a tension control consultation, require technical support or service, we are committed to you for the entire life of your Montalvo products and beyond. We are here for you.

EXPERTISE
Since 1947 Montalvo has differentiated itself by offering more than just high quality and high performance tension control products. We are your resource for the tension control knowledge and expertise required to expand the capabilities of your machinery and production line.

THE STANDARD FOR
RELIABILITY - DEPENDABILITY - PERFORMANCE
In order to compete in today’s rapidly growing composites industry, current technologies will need to provide...

**Increased Performance**

**Expanded Capabilities**

**Added Functionality**

Benefits can be achieved through strategic enhancement of tension control components of your existing machine. For a fraction of the cost of new or custom machinery, Montalvo can make your existing machine run better, giving you the productivity increases you will need to stay ahead of the competition!