

Tension Control | Web Guiding



HIGHLY INTEGRATED SOLUTIONS



More duality

More control

More flexibility

More output

More reliability





FMS SOLUTIONS IN YOUR INDUSTRY

Where tension and position become critical, we're at home

Wherever running web products, labels, textiles and metal strips are manufactured, processed and finished, two factors are critical for the quality of the finished product: constant tension and the consistent lateral position of the material in the process.

Whether you need to convert or process paper, textiles, fabrics, plastic foils or wires, you name the material, FMS solutions are technologically innovative and first choice. Why? Because FMS has a record of providing solutions in applications for a wide range of industries worldwide. And because we always strive to find a smarter solution. Our customers know, we can.

CHARACTERISTICS:

- I Independent Company
- I R&D completely in FMS hands
- I A wealth of application experience
- I Tailored OEM solutions
- I Cutting edge application tools
- I Innovative and trend setting
- I Swiss made quality





Closed loop control TENSION CONTROL

11 Force Sensor | 2 Tension Controller | 3 Drive or Brake | 4 Tension Processed Material



Closed loop control WEB GUIDING

1 Web Guide Sensor | 2 Web Guide Controller | 3 Steering Frame





TENSION CONTROL AND WEB GUIDING

Always state of the art – and ahead

FMS has been recognised as a leading tension control specialist with customers around the world. We are proud not only to provide reliable and proven "out of the box" solutions, but also custom made technology based on our own technical developments and innovations.

FMS maintains a well-equipped, high-performing research and development department to find nothing less than the perfect solution for a given application, covering entirely new machinery as well as retrofits in existing plants. In fact, the development of the best possible solutions for mastering complex control processes has been the rationale of FMS ever since the company was established in 1993.

Ingenuity, Swiss precision and the focus on its core strengths have earned FMS worldwide reputation for extraordinary products, systems and solutions.

CORE COMPETENCIES:

- Web tension monitoring
- I Closed loop tension control
- I Radio based tension control
- I Tension monitoring in vacuuum
- I Tension data processing & data management
- Web guiding











HIGHLY INTEGRATED SOLUTIONS











FUNCTIONALITY BUILT-IN

Seamless integration is as important as first class technology

Whether you are seeking a solution to control tension or you prefer a pure monitoring solution, FMS systems offer a sophisticated range of interface options to integrate it quickly and efficiently into the existing communication and control infrastructure of your machinery and plant.

But it's not only the high quality components that guarantee a hassle-free operation of our control systems. It is mostly the know-how acquired in thousands of industrial installations and our legendary analysis and integration tools that make the difference.

FMS' LEGENDARY SUPPORT TOOLS:

- I The ingenious configuration tools effortlessly guide you through the analysis of your application, calculate force requirements, determine the sensor geometry, and support you with the evaluation of all other system components.
- I The support tools are available for download from the FMS home page.







SERVICE AND SUPPORT

Swiss based, world wide at home

Wherever your business might be located, you will always find it easy to contact FMS and receive excellent service and support. Whether you buy from us directly or through our global distribution network, we maintain the same high standards of service and support of our products.

FMS operates in more than 60 countries with direct sales offices in Switzerland, Germany, the UK, Italy and the US. In addition, there is a widespread network of first class distributors and representatives at your disposal – which means that you will find appropriate and timely project consultation and technical assistance anytime and everywhere in the world.

FMS' CUSTOMER AND REP SUPPORT:

- I Customised system solutions
- I Project related feasibility studies
- I Calculation and configuration tools
- I CAD-File support
- I Integration support with Bus and PLC infrastructure



PRODUCT LINES

Product range and system components



The product line Force Sensors provides products, solutions and related services that increase industrial productivity, energy efficiency and high quality output. Its force sensors, tension measuring rollers and pillow block based designs are of premium quality and ultra durable.



The product line Electronics facilitates tension monitoring, close loop tension control and web guiding systems. Key technologies include high-performance tension amplifiers and PID-controllers, as well as products to accurately and consistently control material position in continuously manufactured products.



The main focus of the FMS Web Guiding business is to provide customers with products and solutions for web detection and web positioning. Its steering frames, drives, controllers and material sensors provide an excellent coverage of the most important applications. The industries served include converting, printing, label processing and packaging.





RTM (Radio Transmitted Tension Monitoring) delivers system solutions across the cable production value chain. These innovative systems utilise force measuring rollers to capture the tension of individual wires or strands, and then securely transmit this data from the rotating to the static part of the machine. The systems are designed with fully compatible components. Production rates and product quality on rotating strand-handling machinery are significantly improved.



Special Application Fields facilitates solutions in **vacuum** applications or in potentially explosive atmospheres.

A sophisticated range of interface options including systems such as **PROFINET**, **Ethernet/IP**, **Profibus** and **CAN-bus** provide quick and efficient integration of FMS products into the existing communication and control infrastructure of your company.

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