



# Quad Plus®

## Web Gauging Systems for Building Products

### Non-Woven



A Quad Plus gauging system will ensure you are producing high quality building materials that improve your product quality and bottom line.

We help you determine the correct technology, configure the frame for optimal performance, install the system, train the operators, and provide support. Our gauging systems are a full turnkey solution with minimal downtime.

#### Custom Scanning Frames

A variety of frames allow for customized applications specific to your configuration. Scanning frames are available in I-Frame, O-Frame, and C-Frame.

#### Premium Installation and Support

Qualified experts and technicians to support you throughout the entire process, from initial planning to after-installation support.

#### Sensor Technology

We offer a variety of sensor technologies such as BETA (Sr-90 and Kr-85), terahertz, x-ray, laser, color detection, microwave, and infrared. Our web gauging experts will help you to determine which sensor is best for your application.

#### Software and Reporting

Make use of the data collected to reduce waste and cut costs.

### Gauging for Non-Woven

Non-Woven producers are typically looking for a few different measurements, basis weight, moisture, and thickness. Quad Plus can offer any combination of these in a system configuration that is customizable to the customers needs. We can offer all the measurement solutions in a compact head design. This design uses Beta radiation for basis weight, near-infrared for moisture, and optical eddy current for thickness measurement. Our system also has



many benefits including composition insensitivity, flutter insensitivity, and material build up compensation. These give the customer an accurate and reliable measurement system even when production conditions are not ideal. Harsh environments are sometimes unavoidable in production and our system can withstand environmental temperatures in excess of 85 degrees Celsius in certain configurations.

Taking product measurements and putting these into an operator usable profiles and graphs enables the production team to reduce startup scrap, learn more about their product, and reliably know what is going on with the product in real-time. Batch/roll reports allow the storage of all material produced for later review by a process team for evaluation of any issues or complaints that may arise. We also offer slice reporting for those customers and slit their product into mini rolls and need the ability to store product information on each individual roll produced.

# How Gauging Systems Improve Operations



## Maximize Raw Materials

Our gauging systems allow you to monitor the thickness of your product with such precision that you can reduce the thickness by as little as 0.01mm and realize significant annual savings. For example, in tire production, a typical plant might allow as much as a 0.025 reduction in gauge, resulting in over \$1.2 million in annual savings.



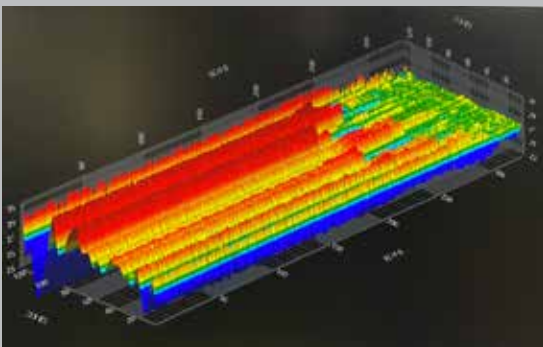
## Reduce Waste

Production defects cause waste and use resources such as raw material, labor, energy, and time. Defects provide no value to customers and have an impact on your bottom line. Our gauging systems give you the ability to identify defects in real-time, so you can correct issues sooner and minimize waste.



## Improved Production

As your production line and gauging system run in parallel, you'll be able to identify and correct product defects before they occur. Your output yield will be increased as your production line will run without serious interruptions and extended downtime.



## Gauging System Software and Reporting

Our software takes the data collected during the process and implements this into an HMI system that is easy to understand by operators and gives information at just a glance of the screen. We provide CD (cross direction) and MD (machine direction) trends that show pertinent information about the process. We also have 2D and 3D models of the data to make a better visualization of the process.

Long term reporting and storage of product data can be useful for tracking and verification of issues at a later date. Our software stores the data for each production batch in a database that can be accessed at a later date for evaluation.

Connect with us



[www.quadplus.com](http://www.quadplus.com)

+1 (844) 251-7823