Single Source Solution

Quad Plus is your single source for industry-specific, expertly integrated solutions.

We provide a full-service gauge system specifically designed to meet the needs of your business and industry. From the quoting phase to the final installation, we help the end user determine the correct technology for their product. Our skilled design team configures the frame and scanner around your machine's unique layout for optimal performance.

Quad Plus follows up configuration by installing the system, training the operators, and supporting the system to implement a seamless operation. We do all of this with minimal downtime on the client side.

Industry Experts

Our team of gauging experts utilize extensive machine and process knowledge resulting in seamless project completion.

Seamless Integration

Take your existing control system and amplify it into a superior control system solution with Quad Plus. We excel in our integrated drive control, APC control, Machine Direction control, and SCADA integration for a complete process ecosystem architecture.

Your Gauging System

Quad Plus works with you to identify the correct technology for your application. We review the variable of gauge sensor technology with you and design a solution for your application based on a collaborative effort. At Quad Plus, we have options for almost all situations and budgets.
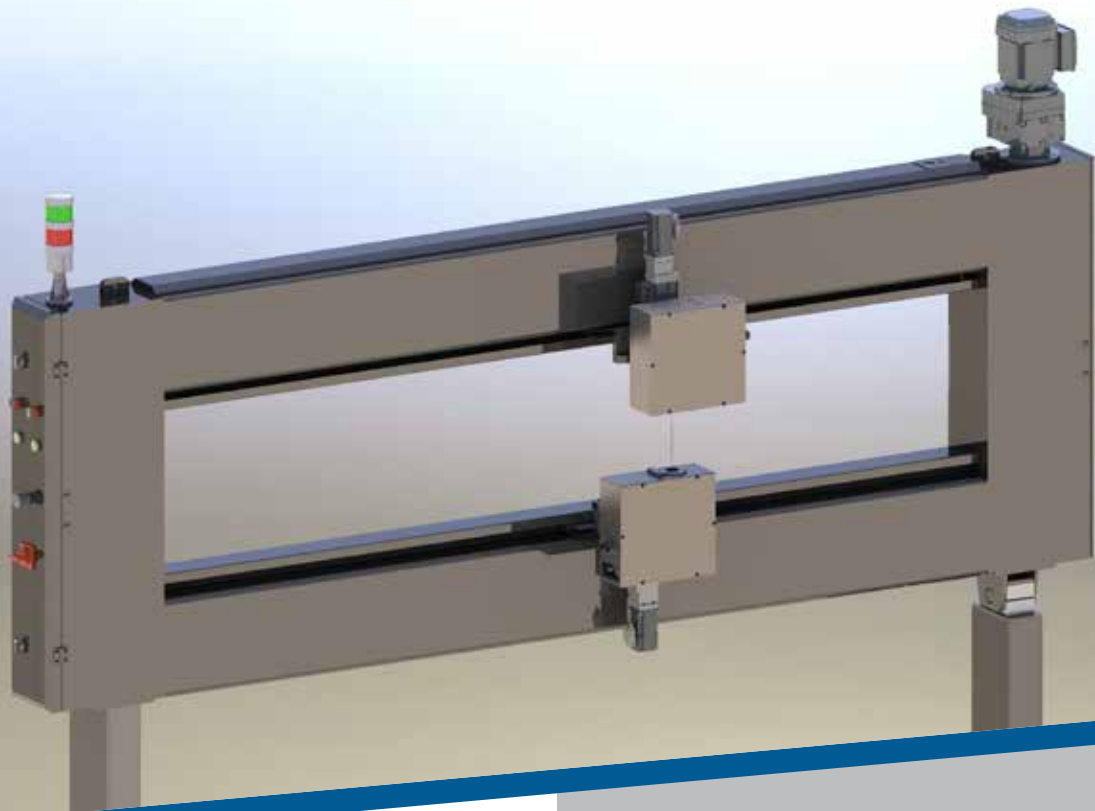
Our goal is to provide you with the right gauging solution for your application; your final results depend on a number of factors, including the product, speed, thickness & width, in-house skillset, and location. Get the most effective solution, on the market, from our machine and process experts.
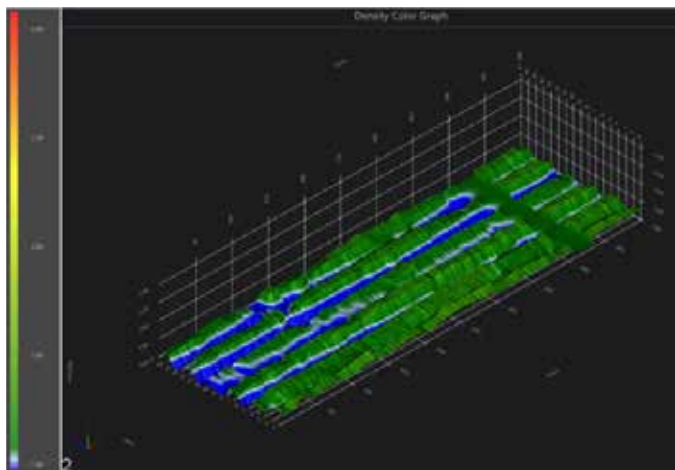
Gauging Industries

Our specialists provide gauging solutions for a wide array of products. We have extensive process knowledge spanning multiple industries.

- ✓ Building Products
- ✓ Extruded Plastic Films & Sheet
- ✓ Coating, Lamination & Packaging
- ✓ Tire & Rubber
- ✓ Non-Wovens
- ✓ Lithium Cell Electrode Coating
- ✓ Paper
- ✓ Metals

Measurement Solutions

Take advantage of a wide range of gauging solutions for your unique measurement needs. Our engineers are masters at discovering the optimum solution for the online measurements of:

- ✓ Basis Weight
- ✓ Single or Multi-Layer Thickness
- ✓ Coating Thickness
- ✓ Moisture Percentage
- ✓ Single Sensor Density
- ✓ Delamination Detection
- ✓ Caliper Thickness

Sensor Technologies

Invest in the best and most accurate gauge system on the market. Quad Plus delivers a variety of sensor technologies to suit your business needs.

- ✓ BETA (Sr-90 and Kr-85)
- ✓ Terahertz
- ✓ X-Ray Transmission
- ✓ X-Ray Fluorescence
- ✓ Laser
- ✓ Color Detection
- ✓ NIR Reflection

Frame Technologies

Scanning frames designed and built by Quad Plus are simplistic, making them robust, reliable, and easy to maintain. We offer standard sizing as well as frame dimensions and configurations tailored to the installation area and customer-specific requirements.

Our modular designs boast hardened and ground guideways and high-precision linear rails. These designs result in expedited scan speeds and precise repeatability of <0.1mm. Additional benefits of our modular designs include being extraordinarily quiet and robust in operation.
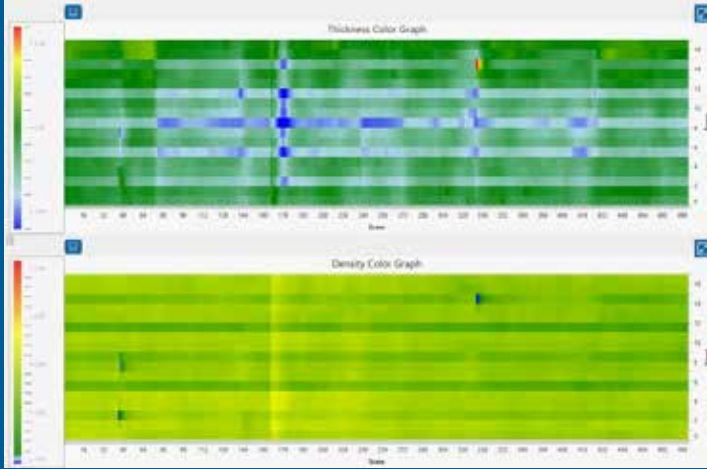

Frame Types

- ✓ I-Frames
- ✓ O-Frames
- ✓ C-Frames

Frame Features and Options

- ✓ Solid construction (no aluminum components) of high tensile strength carbon steel, which is heat-treated and powder-coated
- ✓ Removable guards are precision bent and cut stainless steel
- ✓ Meticulously built with laser-aligned rails
- ✓ Self-lubricating linear bearings
- ✓ Steel-reinforced belts
- ✓ AC motor and drive with frame encoder
- ✓ Class 1 Div. 1 selections available
- ✓ Air purge options
- ✓ High-temperature models available
- ✓ Closed loop sensor cooling option

![Quad Plus® logo]

Roll Reporting

- ✓ Full data storage of each scan saved locally in a database
- ✓ Save each scan by batch; isolate and view each control zone
- ✓ View every batch produced in full 3D and 2D maps
- ✓ Quarantine startups or bad products you do not want to show in a report
- ✓ Standard deviation profiles quickly identify the quality of the batch produced

Display

- ✓ Fully customizable screen solutions
- ✓ High-resolution color maps that visualize the 3D and 2D map of the product scanned. 3D and 2D maps can be manipulated in space in real-time while being updated with continuous scans

Recipe Management

- ✓ Unlimited recipe storage
- ✓ Store all critical process alarms for each product

CD Controls

- ✓ Non-linear cross-directional control
- ✓ Model-based, non-linear adaptive control
- ✓ Acceleration mode at cold starts
- ✓ Automatic measurement of each die bolt current
- ✓ Automatic bolt fault detection
- ✓ Side/Side 2-point roll control

Hardware

- ✓ High-performance gauge controller with a cycle time of 50 microseconds
- ✓ Non-proprietary hardware – off the shelf, can be easily procured from the market by the end user