Who We Serve

Documentation

Roll-2-Roll Technologies serves companies of all sizes—from multinational Fortune 500 leaders to regional converters running their first production line. Our patented fiber-optic sensors deliver the same 0.0635 mm resolution and ±0.127 mm repeatability at every scale, democratizing the performance that was once reserved for only the largest operations.

1,000+
Installations Worldwide

25+
Countries Served

15+
Fortune 500 Customers

Industries We Serve

From Fortune 500 multinationals to first-line converters, our patented fiber-optic sensors run 24/7 at over 1,000 installations across 25+ countries—maintaining ±0.127 mm repeatability on the production lines that make the products you use every day.

Consumer Goods & Hygiene

From multinational leaders to regional converters
From diaper production lines running millions of units daily to regional hygiene product converters, Roll-2-Roll® Sensor ensure consistent quality on the materials consumers trust. Our technology maintains ±0.127 mm repeatability at high speeds—the same performance whether you are a Fortune 500 manufacturer or a growing converter.

Key Applications

- Nonwoven web guiding for hygiene products
- Flexible packaging alignment for household goods
- Label placement accuracy for consumer brands

Battery & Energy Storage

Trusted at electrode manufacturers and emerging cell manufacturers alike
The EV revolution demands precision at every scale. Electrode coating at 500+ m/min requires edge detection that does not drift, does not require recalibration between materials, and does not fail at 3 AM. Roll-2-Roll® Sensor deliver—whether you are scaling a EV battery factory or launching your first cell production line.

Key Applications

- Electrode coating width measurement
- Separator film edge guiding
- Anode/cathode web alignment

Flexible Packaging

Serving converters of every size across the globe
Whether you are converting millions of meters of film daily or running a specialized short-run operation, even 1 mm of edge wander compounds into significant waste. Roll-2-Roll® Sensors maintain alignment across substrates—from clear BOPP to metallized films—without the recalibration that stops your lines.

Key Applications

- Slitting and rewinding alignment
- Online and inline continuous web width measurement
- Lamination registration
- Flexographic print web guiding

Specialty Materials & Electronics

Precision for advanced materials at any production scale
Advanced materials demand advanced sensing. Whether it is optical films for displays, specialty tapes, or technical textiles, Roll-2-Roll® Sensors detects edges on materials that defeat conventional sensors—including clear films, meshes, and reflective surfaces.

Key Applications

- Optical film processing
- Specialty tape converting

- Technical textile handling

Metals Processing

From global aluminum processors to specialty foil converters
Foil processing at high speeds creates unique challenges—reflective surfaces that blind optical sensors, temperature swings that cause drift, and critical accuracy requirements. Roll-2-Roll® Sensors are immune to these issues, delivering consistent edge detection regardless of alloy or temperature.

Key Applications

- Aluminum foil slitting
- Copper foil processing for electronics
- Steel strip edge detection

Born From Research. Built for Production.

Roll-2-Roll Technologies technologies started as NSF-funded research at Oklahoma State University and has grown into the industry standard for precision web handling.

Oklahoma State University

Fiber-optic technology developed with NSF funding at OSU's Web Handling Research Center.

Award-Winning

ASME Rudolf Kalman Best Paper Award and ARC John Matteucci Award (2017).

Patented Technology

1 granted US patent (US 8,324,604 B2) covering our fiber-optic sensing innovations.

Peer-Reviewed Publications

Peer-reviewed papers in leading web handling and automation journals.

Made in USA

Designed and manufactured in Stillwater, Oklahoma.

Precision for Every Scale

The same 0.0635 mm resolution and ±0.127 mm repeatability that Fortune 500 manufacturers rely on—now accessible to converters of every size. Democratizing precision, one production line at a time.

Request a Quote Talk to an Engineer