



Technidyne ACA RoQ™ Inline Roll Hardness Analyzer

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The ACA RoQ™ Inline is fully automated measuring system which measures all rolls running on a conveyor. No need for operator or real time supervising, and provides accurate, data-driven measurements.

Next-level roll hardness analysis for fully automated and inline

The ACA RoQ™ Inline Roll Hardness Analyzer is a cutting-edge solution designed for seamless integration into production lines. It enables manufacturers to measure every roll immediately after winding and before packaging - without manual intervention. All measurements are automated, data-driven, and non-destructive.

Future-ready roll hardness measurements

Engineered for demanding industrial environments, the RoQ™ Inline combines precision sensors, automated data collection, and intuitive software to deliver actionable insights. Mills gain full control over roll quality, reduce waste, and ensure optimal performance from start to finish.

The system provides continuous roll quality monitoring during production, delivering real-time data on roll hardness profiles and enabling automatic anomaly detection. It supports complete roll documentation and traceability, enhancing customer confidence and supporting quality certifications.

Roll hardness profiler essentials

When you need to define a good or bad roll it's essential to know the roll hardness profile. A good paper roll is wound with uniform or diminishing hardness from the core to the outside of the roll.

Whether you're working with paper, paperboard, cardboard, corrugated materials, films, or non-wovens, rolls that are wound too soft or too tight can lead to problems. Rolls must be wound to support their own weight and withstand impact and compressive loads during shipping and handling.

Technical Specification:

Maximum Conveyor Speed	300 mm/s
Minimum Space Between Rolls	1500 mm (non-supervised)
Minimum Roll Width	400 mm
Design Roll Diameter	800 mm
Minimum Roll Diameter	300 mm
Maximum Roll Diameter	1600 mm
Home to Roll Time	2 Seconds
Roll to Home Time	1.5 Seconds
Return to Home After Reset	30 Seconds
Beam Lock After Roll Leaves S3	1 Second
Main Power Input	AC 100-240V, 1.6-0.7A, 50-60Hz. DC110-150V, 1.4A
Weight	25 kg
Dimensions	(W) 900 mm x (H) 480 mm x (D) 550 mm

The benefits of automated roll hardness profile testing

With the ACA RoQ™ Inline Roll Hardness Analyzer, you can:

Quickly identify roll issues: Detect deviations such as soft edges or inconsistent hardness before they cause runnability problems or customer complaints.

Ensure consistent roll quality: Real-time, reliable measurements allow for fine-tuning of the winding process, resulting in uniform roll structure and reduced variability.

Save money and protect your reputation: Fewer roll quality complaints mean less waste and happier customers. Maintaining roll quality throughout production minimizes defects and boosts satisfaction.

Automate quality control: Fully compatible with digital production systems, the RoQ™ Inline supports automated quality control and drives continuous improvement through data.

Rolling out roll hardness solutions

We offer a wide range of paper and film roll hardness testers. Explore the Smith Roll Tightness Tester 40-54 or take a look at the RoQ Roll Hardness profiler. Have something else in mind? Get in touch – we'll be happy to help.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Benefits:

- Inline, fully automated roll hardness measurement
- Measures every roll after winding and before packaging
- Non-destructive testing with precision sensors
- No operator needed – eliminates manual intervention
- Consistent, repeatable measurements – no user-related variation
- Real-time data collection and anomaly detection
- Automated data handling and communication with mill systems
- Supports complete roll documentation and traceability
- Compatible with digital production systems
- Helps in reclaim handling and roll quality classification
- Enables better cross-direction (CD) profile control, especially caliper

Ordering Information:

Article Number

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Article Description

Technidyne ACA RoQ™ Inline Roll Hardness Analyzer

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