

EASYEDGE

X-RAY Edge Analysis in textile and steel cord inspection

EASYEDGE is the new Acelabs device for measuring the rubber edges in a textile / steel cord rubber production process.

OPERATING PRINCIPLE

Two measuring devices, each equipped with an X-ray tube and a specialized Acelabs receiver, monitor the passage of the rubber product by precisely detecting the edges on both sides with high resolution. The edge measurement is instantaneous and continuous, operating at a frequency of 10 Hz.

With this instrument, in addition to monitoring the condition of the edges during the calendering process, it is possible to continuously and automatically control the position of the trimming knives.



MAIN FEATURES

COMPLETE PRODUCT INSPECTION

The system provides continuous edge inspection, enabling the user to generate a detailed **certification** for every reel produced.

NO MECHANICAL INTERFERENCE WITH THE RUBBER

The **EasyEdge** system operates without scanners or heads, eliminating the risk of interference with the material. With over 30 cm of clearance, the system ensures uninterrupted passage of the rubber, solving the issue of lump formation. No operator intervention or additional lump detection systems are required.

FLEXIBLE INSTALLATION

Thanks to its compact design and the absence of mechanical hazards, **EasyEdge** can be freely installed, even immediately after the calender rolls, allowing for near-instantaneous and continuous adjustments.

NO CALIBRATION REQUIRED

No post-commissioning calibration is necessary, ensuring stable performance over time.

NO MOVING PARTS

The new Acelabs system is built without moving parts, minimizing the need for periodic maintenance and reducing machine downtime. This translates to fewer spare parts and lower maintenance costs.

ZERO MAINTENANCE

The system is maintenance-free and autonomously notifies maintenance personnel when device checks are needed.

CONTINUOUS EDGE MONITORING

Edge positions are continuously monitored (<100 msec response time), allowing for automatic and precise trim adjustments.

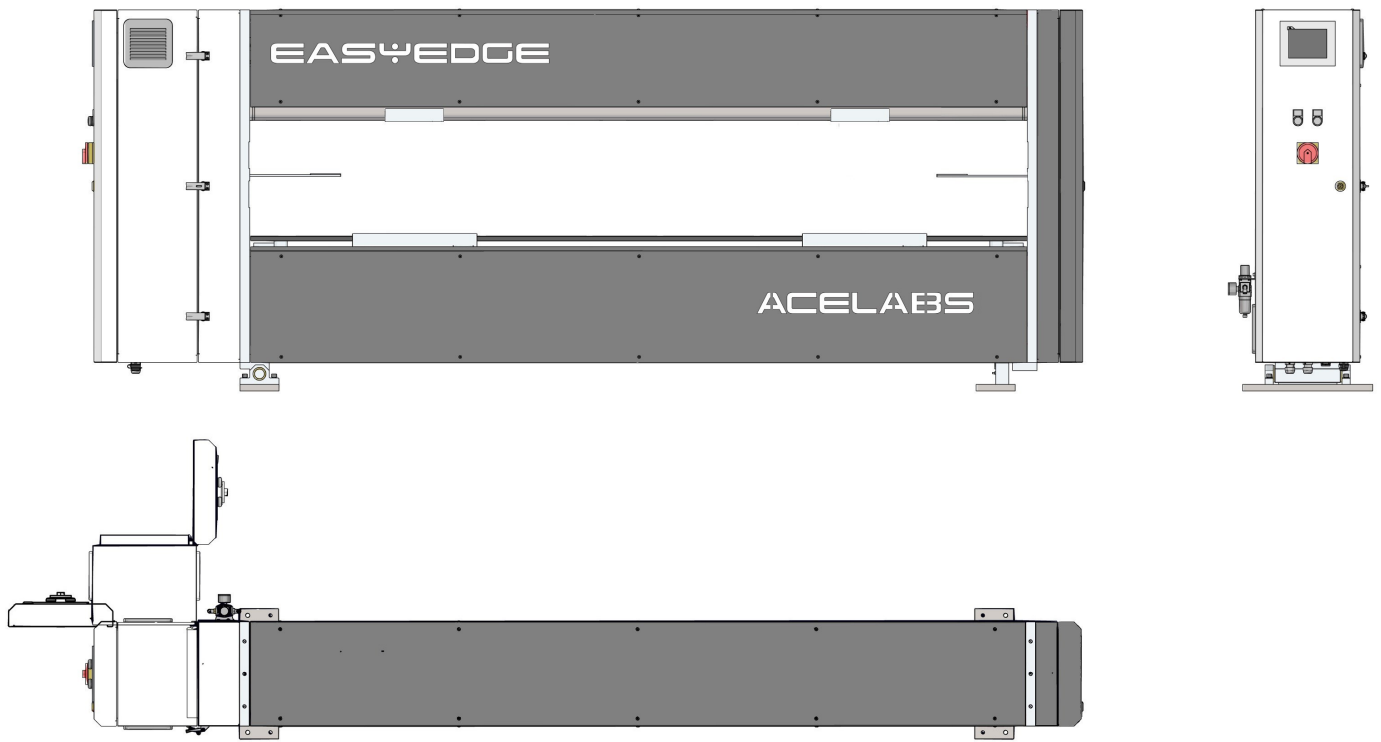
STABLE AND PRECISE

The system offers exceptional stability and precision, with measurement accuracy down to 0.025 mm.

INDUSTRY 4.0 & IoT READY

All Acelabs systems are designed for seamless integration with third-party supervisory controls and ERP systems using state-of-the-art OPC-UA protocols, ensuring compatibility with Industry 4.0 standards.

TECHNICAL DATA



LEAF WIDTH(mm)	800	1000	1200	1400	1600	1800	2000
WIDTH(mm)	400	400	400	400	400	400	400
HEIGHT(mm)	1200	1200	1200	1200	1200	1200	1200
LENGTH(mm)	1800	2000	2200	2400	2600	2800	3000

SYSTEM FAMILY

FEATURES	EASYCORD	EASYEDGE	EASYTEXT	EASYSCAN
100% surface inspected	YES	NO	YES	NO
Steel Cord	YES	YES	YES	YES
Synthetic fibers	NO	YES	YES	YES
Continuous edge trim knife control	YES	YES	YES	NO
Resolution	MID	HIGH	HIGH	HIGH