AUTOMATIC ROPE INSPECTION

SMART CONTROL OF STRINGING ROPES

A.R.I. is the advanced device designed for the **automatic inspection** of pulling rope integrity.

It delivers maximum safety, proven reliability, and complete traceability through a fast and accurate inspection process.

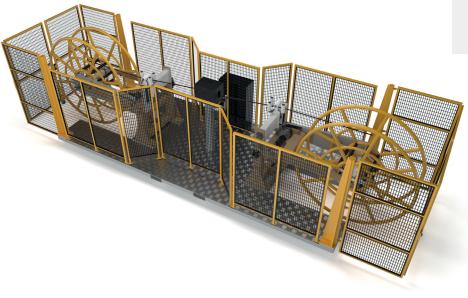
A.R.I. detects both visible and hidden anomalies, such as broken wires, corrosion, diameter reduction, and geometric defects.

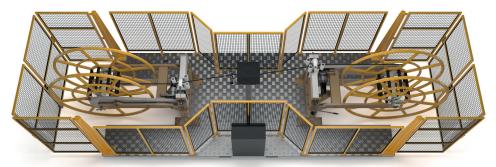
The system includes two rewinders with an integrated sensor and is mounted on a dedicated skid, ensuring easy transport and quick setup on site.

Configuration

- + Skid-mounted machine
- + Inspection speed: up to 10 km/h
- + two on board automatic reel winders with level wind for reel mod BOF010, BOF020 and BOF030
- + Color display for inspection results
- + Full electric machine

- + The machine is capable of automatically monitoring the stringing rope
- + The machine can reel / unreel automatically the rope
- + The analysis data is immediate and provided in real time
- + The analysis are recorded and downloaded via USB or printed.
- + A diagram shows the rope length on the x-axis and the amplitude of the magnetic field of the rope in the y-axis. Discontinuity (bigger amplitude on y axis) indicates possible defects in the rope.
- + Automatic and simplified data processing, with a graphical index of the rope's health (for example, through a dedicated dashboard).





TECHNICAL FEATURES

ARI - Automatic Rope Inspection	Features	Value
Dimensions	Lenght	5.770 mm
	Width	2.250 mm
	Height	1.955 mm
	Weight	4.000 kg
	On skid	
Configuration		
	Safety operational lock	
	2 automatic reel winders for BOF010 BOF020 and BF030	
	Electric engine	
Performance	Working direction	Both
	Max speed	10 km/h
	Working load	150 daN
	Min rope diameter	8 mm
	Max rope diameteer*	24 mm
	Sampling frequency	max 0,5 ms
*Available also > 24 mm upon request		
Inspection	Fault - RMS signal	
	Corrosion - LMA signal	
	Section variation	
	Position of the fault	
	PDF report downloadable	
	Assessment of the rope	
	ISO4309 report	

Please note that all dimensions and specifications provided are indicative only and may be subject to change

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