

Wire Rope Electromagnetic Inspection EMAG

Applus+ Velosi use next generation wire rope inspection technology to identify the internal condition of wire ropes. Our equipment can measure loss of metallic cross-sectional area (LMA) caused by external and internal corrosion, wear, broken wires, broken cores and deformations in steel wire ropes.

The software used can also analyze the wire rope roughness (WRR) to produce a quantitative characterization of the internal broken wire clusters and corrosion pitting. We can also produce a conventional localized flaw (LF) signal that can help to detect broken wires and corrosion pitting.

APPLICATIONS

- Oil and Gas : Cranes, anchor lines, mooring lines etc.
- Civil : Cranes, elevators
- Recreational : Cable cars, ski lifts, zip lines

COST SAVINGS

When using Applus+ Velosi to conduct wire rope inspections, the results can often lead to an increase in the wire rope life expectancy, offering significant savings to our clients, safe in the knowledge that the wire rope will remain safe to use.

Most wire rope inspection units are limited by the range of diameters of wire rope. This means for the inspection of one crane, two inspection units are usually required. This equates to additional day rates for equipment in use and in transit. Unlike the competition, Applus+ 's LMA-300 unit can conduct inspections on all wire rope sizes up to 83mm offering significant savings.

INSPECTION PERSONNEL

Our inspection personnel are trained to use this equipment safely; in addition they have wire rope inspection certification to conduct a simultaneous visual inspection of the wire rope. If required, our teams can be rope access competent so that we can reach all the hard to access areas.

SPECIFICATIONS



Wire Rope Diameters:	Up to 83mm or 3.5"
Flaw Detection:	i) Loss of metallic cross-sectional area (LMA): external and internal broken wires, corrosion, wear, broken cores, various changes of rope structure. ii) Localized flaws (LF): broken wires, corrosion pitting.
Flaw Detectability:	i) Flaw cross section: 0.1% of rope cross-sectional area. ii) Quantitative flaw identification of loss of metallic cross-sectional area for flaws longer than 2" (50 mm), qualitative flaw identification for localized flaws.
Weight:	LMA-300 Sensor Head.....34 kg
Minimum Rope Speed:	0.03 m/ sec
Maximum Rope Speed:	3 m/ sec
Environmental Conditions:	Dust proof, splash proof (oil and water), humidity to 95%
Operating Temperatures:	0°c to 55°c

Profile

Applus+ Velosi, part of Applus+ Group's Energy & Industry Division, provides a comprehensive range of services that span the entire lifecycle of the global rig, FPSO and energy industry.

Our Inspectors are trained and assessed according to company's Competency Management System, which incorporates internationally recognized schemes such as PCN, ASNT, CompEx, CSWIP, LEEA & IRATA by utilizing our proprietary management planning software and mobile project report tools (APPS) to deliver consistency and quality to customers.

Regional Office



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Middle East



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BAHRAIN

IRAQ (excl. Kurdistan)

Africa



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NIGERIA

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