

Non-Destructive Inspection of Mining Ropes

- Effective mean to provide safe operation of ropes
- Inspection of ropes of all constructions and size
- Timely discard and reasonable extend of ropes
- Proven and reliable inspection procedure
- Rugged and explosive proof equipment

Hard usage of mining ropes causes their deterioration, and the rope may be dangerous for further operation. Non-destructive inspection of rope allows reasonably discarding rope, or extending its service according to requirements of relevant safety codes. INTRON PLUS produces wire rope tester INTROS® and provides non-destructive inspection of mining ropes of different size, construction, and application.

INTROS® as dual function instrument, simultaneously measures loss of metallic area (LMA) and reveals outer and inner broken wires, pitting corrosion, commonly named as local flaws (LF). With software Wintros-RTV® data are shown on-line on in form of LMA, LF traces. Built-in data logger stores inspection data, which are downloaded for further analysis and searching defects in automatic mode with software Wintros®.

INTROS® comprises basic unit and magnetic head connected with cable. Hand held basic unit is battery powered and compatible with magnetic heads of all sizes. Magnetic heads are easily attached and fixed on the rope; due to small weight and size they can be operated even in restricted space of mines, e.g. for inspection of brake, guide, or balance ropes.

INTROS® can accurately inspect ropes with metal or fiber core, bright or zinc coated wires, as well as flat and rubber coated ropes used as balance ropes. The instrument is ruggedly designed, and can be delivered in explosive proof version. The instrument is suitable for monitoring mining ropes.



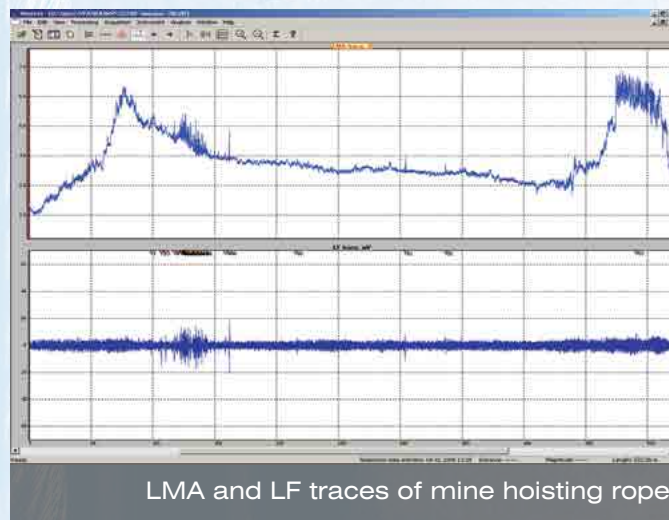
Inspection of inclined hoisting rope



Inspection of balance flat rope



Robotic system for inspection at multi-rope winder



LMA and LF traces of mine hoisting rope

INTRON PLUS also produces equipment and provides services for non-destructive inspection of steel plates and steel cord conveyor belts.



INTRON PLUS LTD

Tel.: +7 (495) 229-3747, Fax: +7 (495) 510-1769
 info@intron-plus.com www.intron-plus.com
 Elektrodnyaya Str., 11, Moscow, 111524, Russia