

INTROCON

The Instrument for Non-Destructive Inspection of
Steel-Cord Conveyor Belts



- Specially designed for safety of personnel and protection against loss
- Inspects steel-cord conveyor belts in fast and reliable manner
- Identifies broken and missing cords, pitting corrosion, splice integrity

Belt conveyors are widely used in mining and cement industries, seaports and steel plants. High loaded belt conveyors are equipped with steel-cord conveyor belts. Operation of steel-cord conveyor belts requires reliability and safety. Failing of the belt stops the production flow, requires much time for repair and so results in losses. Some of conveyors are used for driving of miners to their working places and so must be in safe condition. Steel-cords (wire ropes) are important part of the belt and their condition affects reliability of the belt.

Eddy-current instrument INTROCON non-destructively detects broken and missing cords, pitting corrosion and splice integrity of steel-cord conveyor belts, measures the gap between broken cords in the splices. Its applications cover a wide range of belt width used **even in explosive environment**.



No special preparation of the belt for inspection is required. The scanner is installed on the belt fast and easy. The inspection is performed during conveyor working process under usual belt load, and so, **belt monitoring is possible**.

The instrument consists of a scanner and a portable data logger. The scanners have modular design. Different scanner dimensions are available to fit belt under test. The data logger connected to the scanner, is battery powered with internal memory storage for later downloading and has illuminated displays to indicate current measuring information. Software WINCON is specially developed to download and process test data, to provide a detailed **test report**.

Width of the testing belts	600...3000 mm / 23,6"...118"
Speed of the belt under test	0...4 m/s / 0...787 feet/min
Sensitivity to cord brakes	1 broken cord
Dimensions of the scanner (l* x h x w)	(1300...3500) x 70 x 200 mm / (51"...137") x 2,8" x 7,9"
Weight of the scanner *	8...35 kg / 17,6...77 lbs
Dimensions and weight of the data logger	85 x 35 x 217 mm / 3,4" x 1,4" x 8,5" 620 g / 22 ozs.

* depends on the type of the scanner

In addition to supplying customers with the instruments, Intron Plus provides training of the customers and free on-line applications consultation service. Skilled certified technicians offer services in the non-destructive inspection of steel-cord conveyor belts of different sizes. Detailed test report printed is available.

All instruments have a one (1) year warranty period and life time technical support.



Intron Plus, Ltd.

Instruments for Non-Destructive Testing & Diagnostics

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