CONTROLE MESURE SYSTEMES

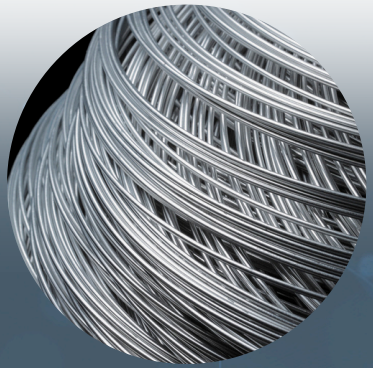
Aluminum or Copper Wires Inspection

Defects Detection - Research of Inclusions

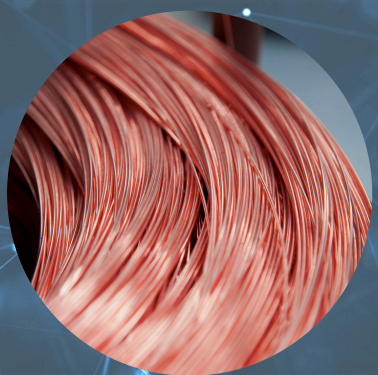
Made in France
French innovation
Since 1988 !

CONTROLE MESURE SYSTEMES has developed an **Eddy Current system combined with a Flux Leakage solution for wires inspection.**

Example of one of our CMS Eddy Current coil supports for aluminum and copper wire inspection



According normatives API, ASTM, EN, AMS...



Defects detection with the Eddy Current method:
Short, transverse, cracks, holes...

Research of inclusions (metallic) with the Flux Leakage method

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High speed inspection
by Eddy Current encircling coils

Coil support ensures accurate positioning of the encircling coil. It is designed to be easily inserted on a production line. It supports, centers and aligns the inspection coil with the product to control.

MAIN FEATURES:

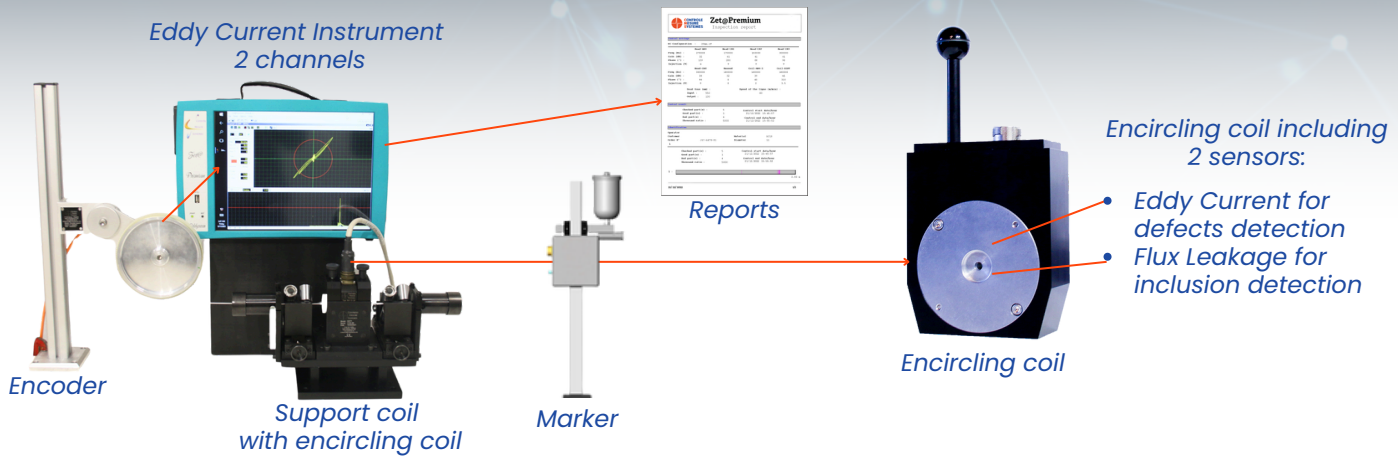
- Detection of surface and sub-surface, short and transverse defects
- Fast and easy change of guide sleeves, inserts and adaptors to match the product diameter
- Several sizes can cover a diameter range from 0.1 to 230 mm (0.004 to 9")
- Unlimited inspection speed
- Can be combined with a wide range of CMS accessories
- Low maintenance
- Robust construction
- Tailored according to customer's needs and requirements

PRINCIPLE:

During the process, aluminum or copper billets are transformed by lamination. The wire is guided and passes through an Eddy Current system, which consists of a coil support mounted on a support table with rollers to guide the product through the system.

A special encircling coil, located in the support, contains two sensors:
- one working with Eddy Current for defect detection,
- second working with Flux Leakage to identify metallic inclusions.

Eddy Current testing is performed by the Zet@Premium instrument, which operates with dual channels. When a defect or inclusion is detected, the system triggers a line shutdown, marker, visual alarm, saw or an output of your choice. An encoder installed on the line enables precise localization of defects in a customized report.



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