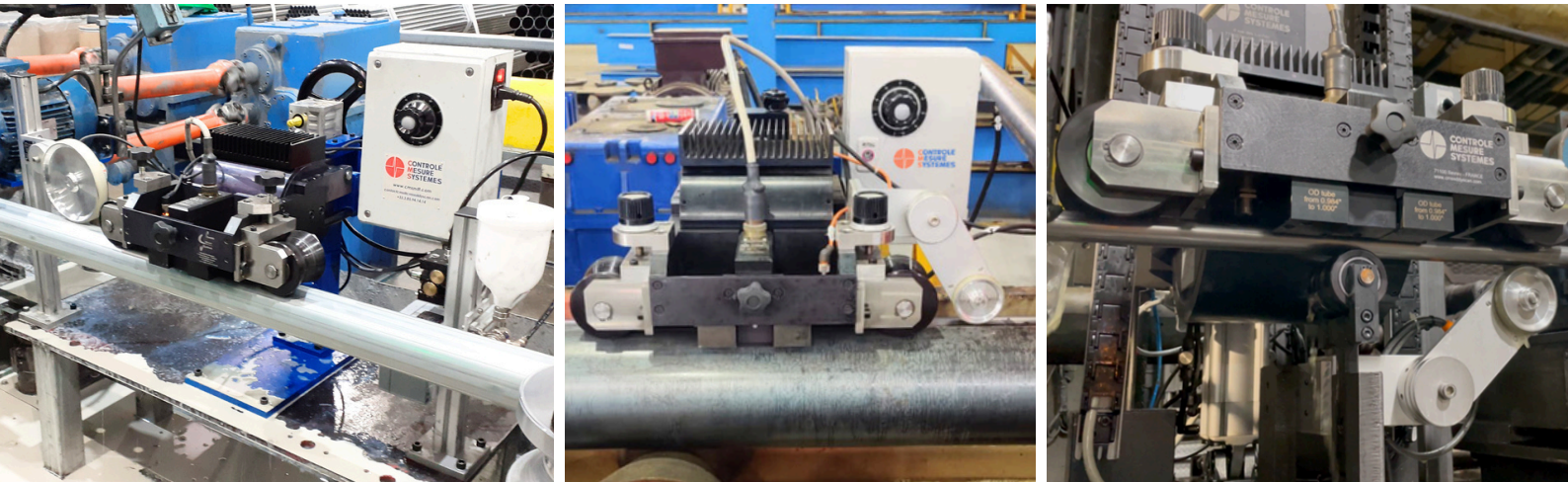


CONTROLE MESURE SYSTEMES (CMS) has developed an **Eddy Current system using segment coils specifically designed for the inspection of welded tubes.** This solution offers precise defect detection directly on the weld seam, even at high production speeds.



**Examples of Eddy Current Segment Magnetizing Units**

*Standard Segment Coil*



*segment Array Coil*

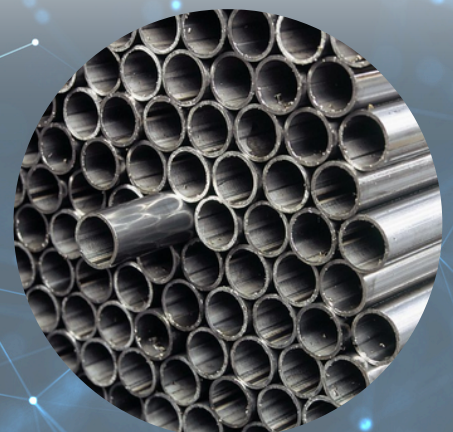


*segment Coil Type P*



### Detection of:

- Small flaws (holes and cracks)
- Discontinuities or open seams



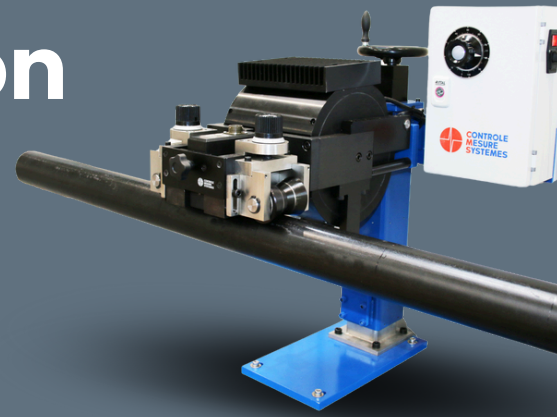
# High Speed Inspection

## by Eddy Current segment coils

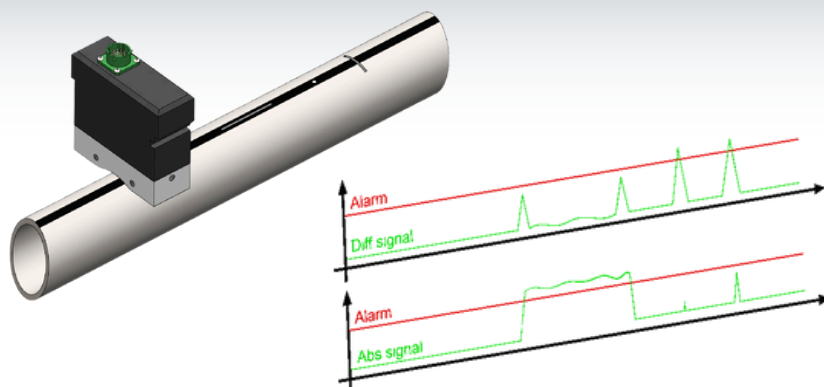
Directly installed on the production line just after the welder, the segment magnetizing unit detects defects on the weld area. Discover its key features:

### MAIN FEATURES :

- **Differential and Absolute Channels:** Detects surface and subsurface short and transverse defects on the weld area, unscarfed sections and open welds, with exceptional sensitivity and precision
- **Wide Diameter Range:** Compatible with tube ODs from 5mm to 300mm (0.19 to 11.2"), offering great versatility and adaptability for various production needs
- **High-Performance System:** Engineered for unlimited testing speed, built to withstand demanding industrial environments, easily integrated into existing mills, and capable of inspecting materials at temperatures up to 80°C (180°F)
- **Customizable Design:** Available in standard or fully customizable versions to suit your production line layout and inspection requirements
- **Fast Changeover & Adjustable Settings:** Quick and easy change of coils and pole shoes for different tube diameters, adjustable lift-off, and magnetic saturation control ensuring optimal detection performance
- **Real-Time Defect Analysis and Post-Processing Data:** Integrated with a CMS Eddy Current instrument and intuitive software for live defect visualization, enhanced signal processing, full traceability, and detailed reporting. A dedicated post-analysis software allows users to reopen and review past signal acquisitions.
- **Conventional or Array Technology:** Segment array coils are designed to enhance sensitivity to weld porosity and significantly improve the Signal-to-Noise Ratio (SNR)



### OPERATING PRINCIPLE:



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