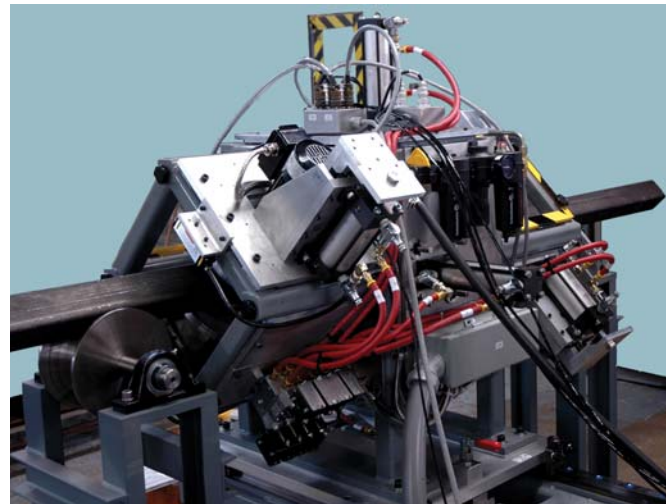


- **This Eddy Current Billet System inspects square, round corner billets**
- **Tests flat surfaces and corners for defects**
- **Detect longitudinal defects in the flat surfaces, and transverse and longitudinal flaws on the corners**
- **The MultiMac® electronics has 8 test channels**
- **Test frequencies can be selected from 1 kHz to 5 MHz with a flaw bandwidth up to 5 kHz**
- **A setup can be done in under 10 minutes and a size change only requires an adjustment of the headplate probes**

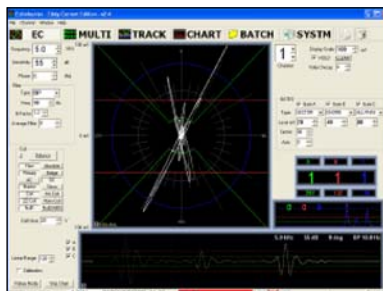


Eddy current billet inspection system with rotary and encircling test coils

## MultiMac® Electronics

The MultiMac™ electronics used in the billet test system has a full Windows® based user interface, making it easy and intuitive to operate. The setting and control of the instrument is done through the graphic user interface.

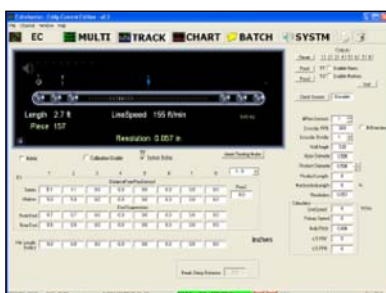
For this system, eight channels are supplied. Individual channels are assigned for use with the rotary system to test the flat surfaces or the tangent coil system to inspect the corners.



All the parameters for testing are set up through the EC screen. Each channel is set up independently. It is also possible to lock out parameters so that they can only be changed by an authorized person with a password.



The Multi Screen displays both the linear and polar view simultaneously. Multiple channels can be displayed at one time.

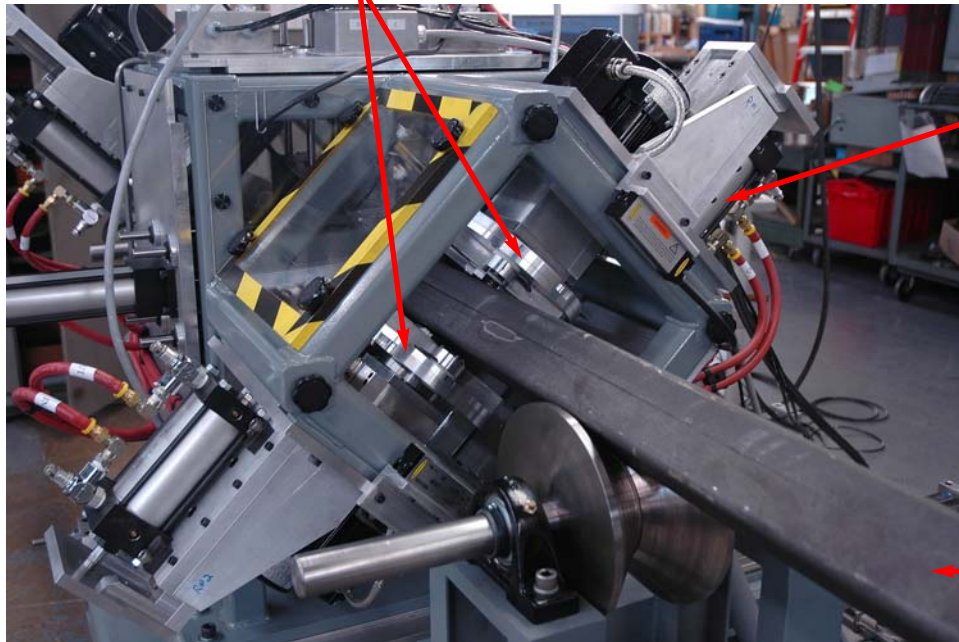


The track screen shows a visual representation of the product, end sensors, etc. It is useful for setting up end suppressions, flaw tracking, and output (alarm) routing.



Multimac eddy current electronics

Rotary Test Heads to Inspect Flat Surfaces Billet

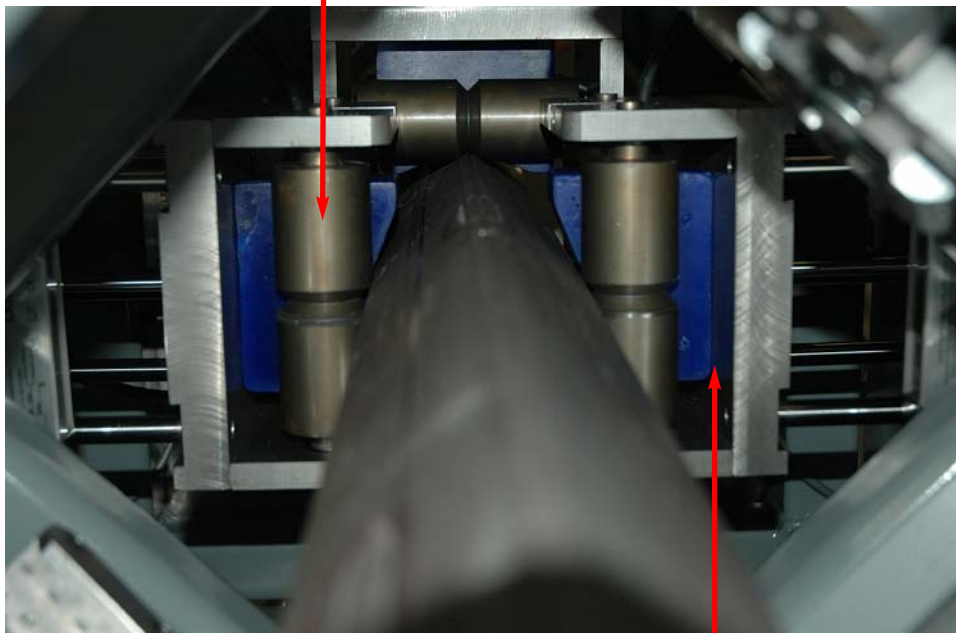


Pneumatic Cylinders to Bring Heads In and Out

Billet

The Eddy Current Billet Inspection System has 4 light curtains that sense the movement of the billet as it goes through the 3 designated zones. As the billet passes through the first zone, the light sensors send a signal which activates the 2 headplates to begin inspection of 2 of the flat surfaces. In the second zone, the 4 coils are alerted to position upon entry, test the corners, and retract upon exit. Finally, in the third zone, the signal prompts 2 more headplates to inspect the remaining 2 flat surfaces and withdraw upon completion.

Rolls to Position Test Coil Against Billet



Tangent Test Coil to Inspect Corners



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BILLET 8.10

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