

# Round Billet Inspection Systems

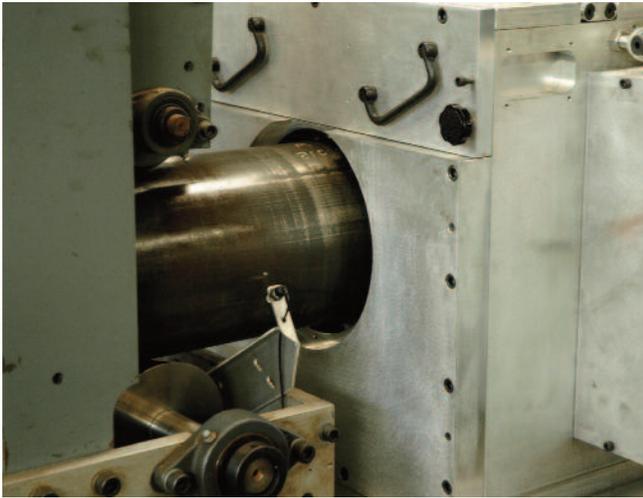
---

MultiMac<sup>®</sup> Eddy Current &  
Echomac<sup>®</sup> Ultrasonic Equipment



# Eddy Current Inspection System

The 750 RBT eddy current rotary was designed for the inspection of round billets up to 7.5" (190.5mm).



RBT 750 Eddy Current Rotary for testing round bar and billets.

## MultiMac® Electronics

- ☑ Contains 4 to 8 channels
- ☑ Windows® based user interface
- ☑ Set up may be done in less than 10 minutes and only requires an adjustment of the headplate probes

## 750 RBT Mechanics

The 750 rotary utilizes 4 probe arms that are each 90 degrees apart and each with 1 probe. The achievement of an even helix test pattern allows for faster throughput speeds and the independent control of each probe provides better results on billets that are off-center, bent, or on conditions of ovality.

The 750 RBT detects long, continuous surface defects and longitudinal notches or seams down to 0.015 of an inch.

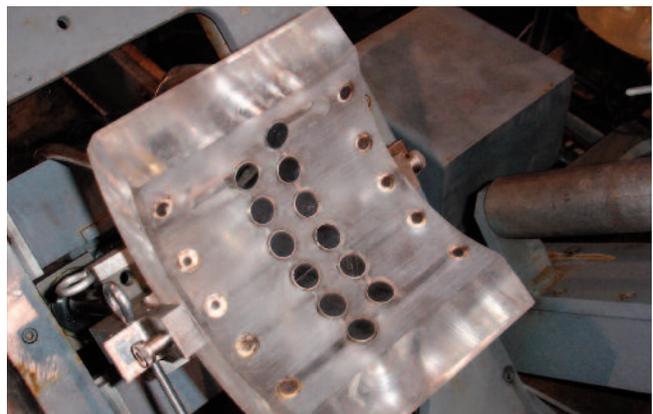
# Ultrasonic Inspection System

For round billets, the system shown below is re-arranged by removing the 3-4 shoes square inspection shoes and replacing them with 4 round billet shoes (shown below). Each covers 90° around the billet's circumference for a total of 360° degrees of coverage. Each shoe contains 12 transducers equally spaced for a total of 48. The transducer shoes are adjusted to each respective billet diameter.



## Echomac® FD Electronics

- ☑ Standard Windows® computer and keyboard
- ☑ Software and PCI standard printed circuit boards mounted in an environmental cabinet
- ☑ 48 channels (expandable to 64)
- ☑ Availability of a tracking and marking system to identify indications



Round billet shoe. Detection of internal defects are in conformance with mill standard 2154

The UT inspection system detects internal flaws on hot rolled round billets up to 9" (225mm) at production speeds.