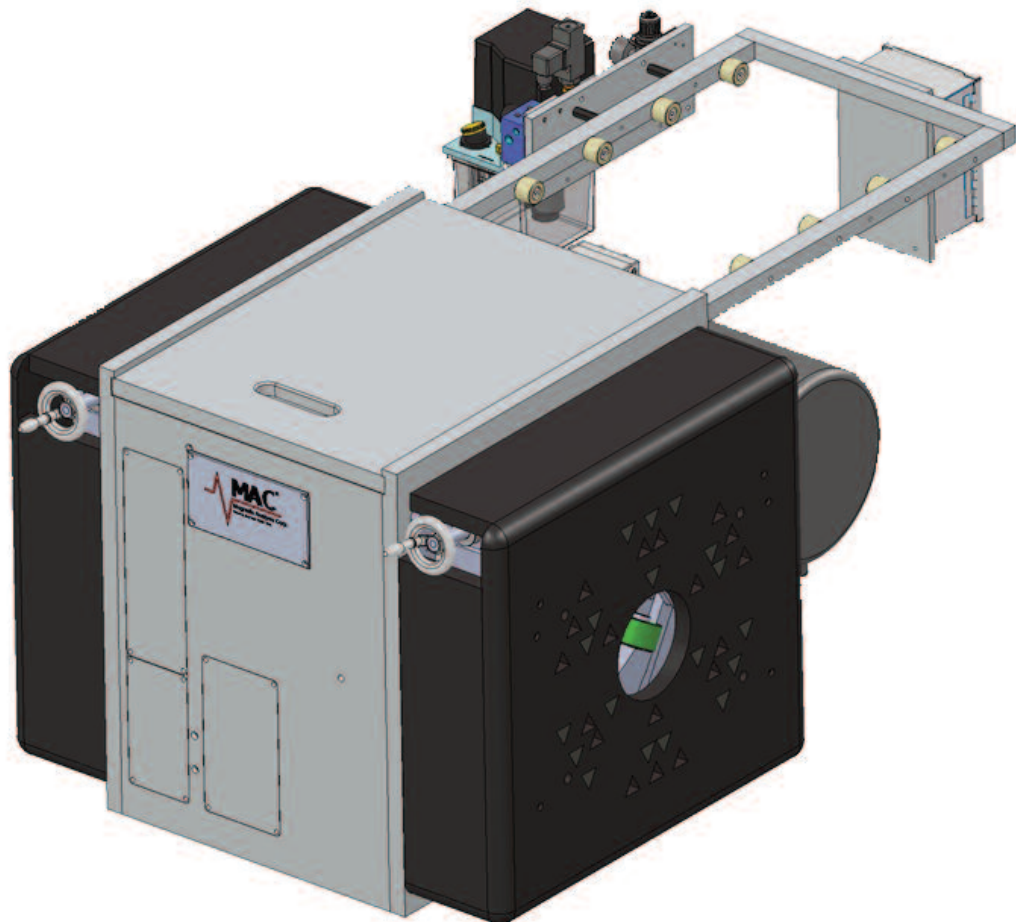


Rotoflux[®] AC

Flux Leakage Tester for Detecting Defects in
Hot Rolled Black Bar

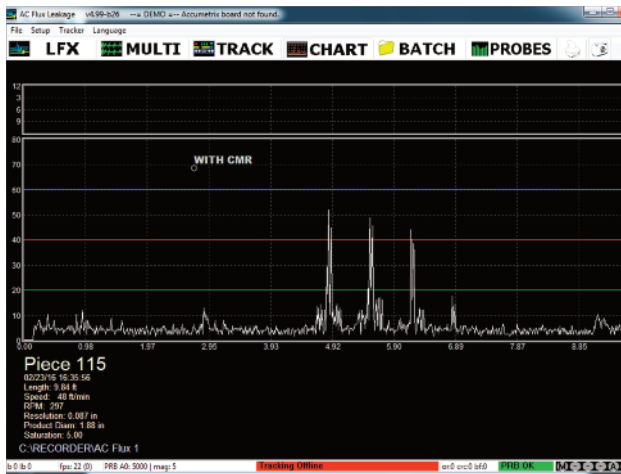


Superior Technology & Performance

The Best Technology to Detect Surface Defects in Hot Rolled Black Steel Bar

Until recently, MAC has been testing hot rolled bar with eddy current rotaries which can find defects down to 0.2mm deep. Now, MAC's new Rotoflux® AC technology extends this capability to finding even smaller defects and to products with surface conditions that often make finding shallow defects very difficult, if not impossible.

Designed to test hot rolled bar from 20mm to 180mm in diameter, the new Rotoflux® AC is based on MAC Rotoflux® technology, incorporating the latest multiplexing and wireless signal transfer features to minimize noise while maximizing sensitivity



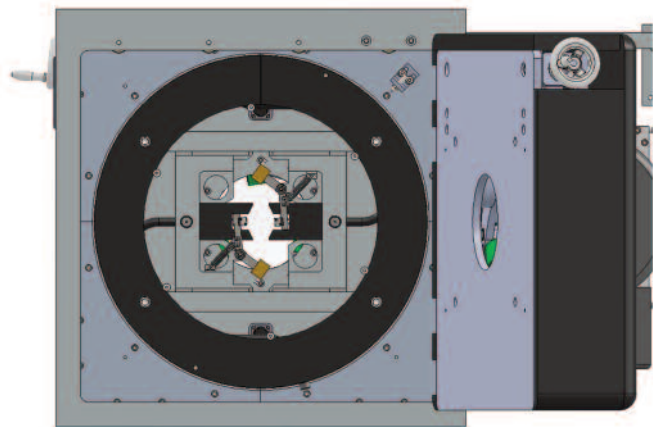
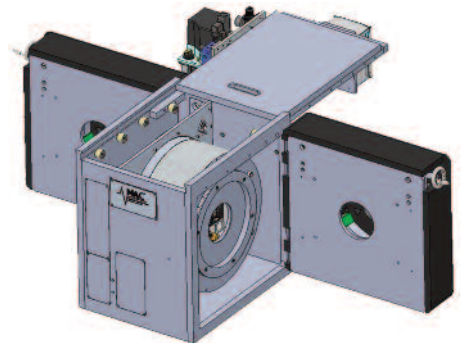
Screen display of 0.23mm, 0.2mm, 0.15mm, and 0.10mm (0.009", 0.008", 0.006" and 0.004") deep defects.

Clear Defect Signals with Minimum Noise

- ❑ Detect longitudinal flaws as small as 0.1mm deep on hot rolled bars and rods.
- ❑ Operates with Rotoflux® AC electronics.
- ❑ Provides full quadrature detection to preserve phase selectability, choice of all phase and chord gates, similar to conventional eddy current tester.
- ❑ New Probe screen with sensitivity and phase adjustment for each individual channel.
- ❑ 2 surface ride Probe Arrays consisting of 8 elements each cover 160mm per rotation
- ❑ Operates up to 900 rpm, depending on product diameter.
- ❑ Throughput speed of 2.4m/s (480 FPM) with larger diameters requiring slower FPM.

Convenient Adjustments for Size Changes & Access

- ❑ A Simple adjusting tool allows quick resetting for dimensional changes.
- ❑ Rotating the adjusting tool clockwise or counter clockwise automatically positions the probes further apart or closer together.
- ❑ A convenient scale on the headplate indicates the set diameter.
- ❑ Triple guide roll assemblies on incoming and outgoing sides swing open conveniently for easy access.



Probe arrays in the headplate move in and out as the adjustment tool resets them for dimensional changes.