

Welcome to

MAGNETIC ANALYSIS CORPORATION

Nondestructive Testing Equipment Since 1928



Who is MAC

- Design and produce systems to test primarily metal products during manufacture
- Sell primarily to manufacturers of tube, bar, wire and metal parts
- Primarily family owned private company
- Roughly \$30M in annual revenue

Magnetic Analysis Corporation

(Design & Production)

- **First U.S. Made Electromagnetic Flaw Detection System For Steel Bar**
- **First Null Coil System**
- **First Commercial Eddy Current Tester in the U.S.**
- **First Rotary Probe Eddy Current System**
- **First Fully Computerized Eddy Current Tester**
- **First Rotary Hot Wire Tester**
- **First Rotary Transverse Flux Leakage Tester**

MAC Celebrated 90 Years



Since our founding in a small facility in Long Island City, New York, in 1928, Magnetic Analysis Corp. has grown to become a recognized global leader in nondestructive testing. At that time, most inspection consisted of “sampling” techniques, which essentially destroyed part of the bar in the process. Nondestructive testing appeared to be a very attractive idea, as it would allow use of the product after testing.

Translating the NDT concept into a viable tester required six years of research and development, leading to the first successful electromagnetic test for cracks in steel bars, conducted in an operating mill in 1934.

This was the first step in a path that led our company towards the continual development of NDT technologies and applications that were—and continue to be—designed to meet the high-quality standards of our customers.

Today, operating on an international scale, we help metal manufacturers around the world meet demanding specifications that require multiple technologies, including Eddy Current, Ultrasonic and newly developed Phased Array Ultrasonic and AC Flux Leakage, along with material handling, remote access approval and monitoring.

In 2018, we reached the milestone of our 90th year in business, we appreciate the MAC people who created the breakthroughs and advancements that have made us what we are today.

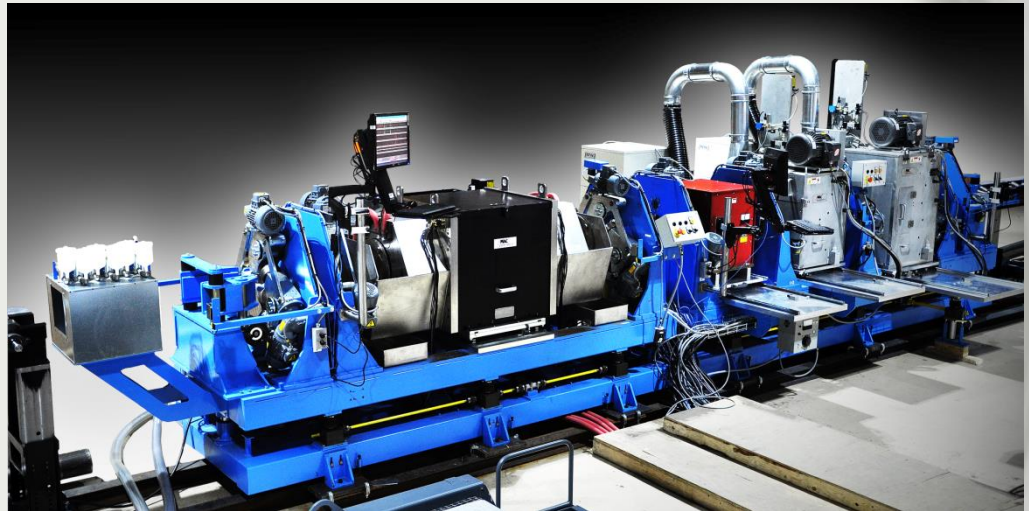


World Wide Presence



Broad Range of Equipments

- **Eddy Current**
- **Ultrasonic**
- **UT Phased Array**
- **Flux Leakage**
- **AC Flux Leakage**
- **Custom Systems**
- **Material Handling Systems**
- **Water Packages**



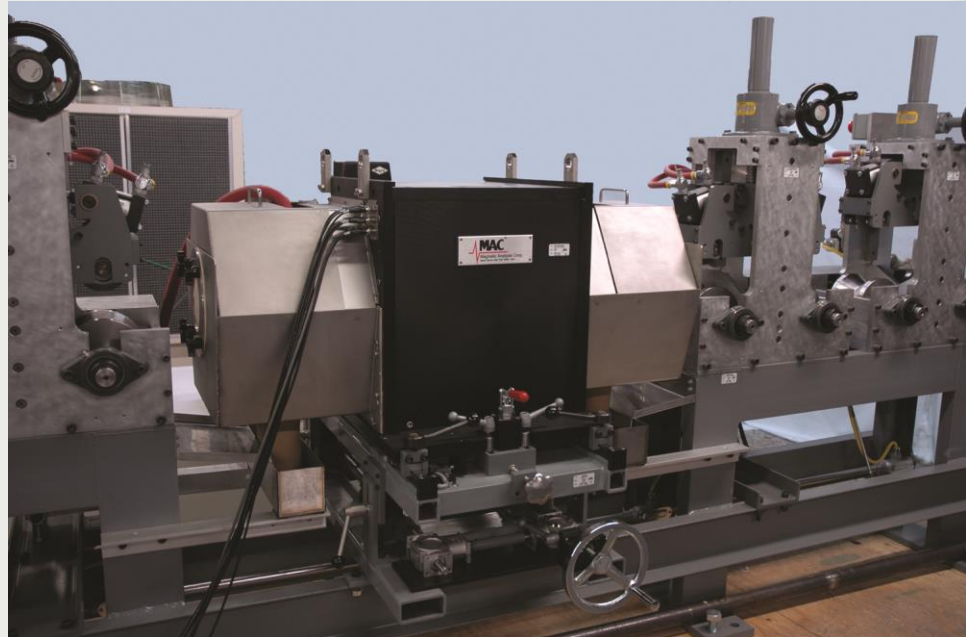
Applications - Testing Tube

- Welded Tube
- Seamless Tube
- OCTG
- Special Tube Conditions
- Upset Ends
- Reel to Reel
- Ultra Small Diameter
- Super & Hyper Duplex



Applications - Testing Bar

- Cold Finished Bars
- Hot Rolled Black Bar
- Round and Square Billets
- Cut Lengths
- Continuous Bar at Elevated Temperatures



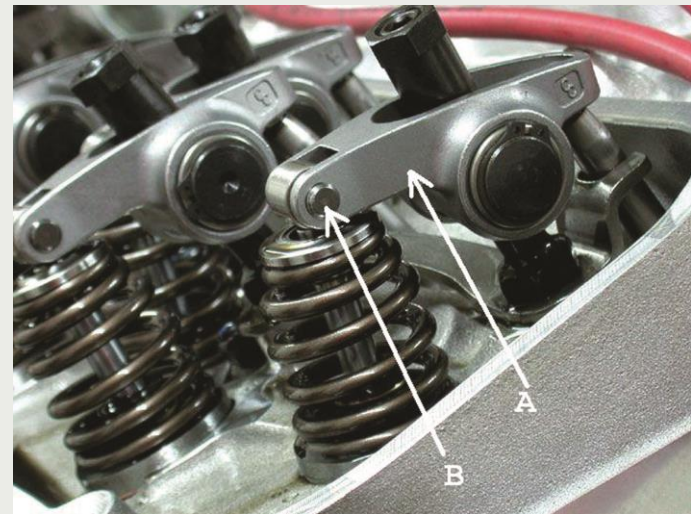
Applications - Testing Wire

- **Cold Drawn**
- **Fine Diameter Wire**
- **Insulated Wire**
- **Cable**
- **Continuous or straight & cut**
- **Nitinol Wire**



Applications - Testing Parts

- Multi Test systems including Eddy Current, Ultrasonic, & Flux Leakage
- Fasteners, Bearings, & Similar Parts
- Military Ordnance
- Automotive Parts
- Standard & Customized Test Systems



Valve Train Assembly

(A) Detect gas pockets in rocker arm

(B) Test pins for proper heat treatment.

ULTRASONICS



Echomac[®] Ultrasonic Rotary

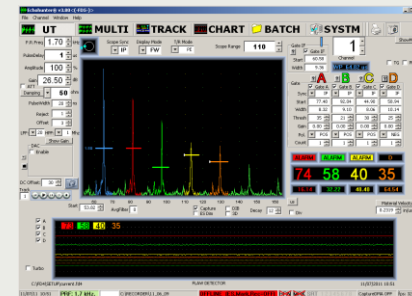


Echomac® FD6 Electronics

- Up to 32 Channels
- User Configured Flaw, Thickness, & Dimensions
- Simultaneous A Scan & Strip
- GE Qualified for P3TF31 Class A & B, & P29TF82 Class A & B (model 6A only)



Echomac® VM
Velocity Measurement Tester



- Evaluates Velocity, Thickness or Flaw Detection
- Automatic or Manual Testing
- Operates with either Full Immersion or Bubbler Couplant Technology

FLUX LEAKAGE





EDDY CURRENT

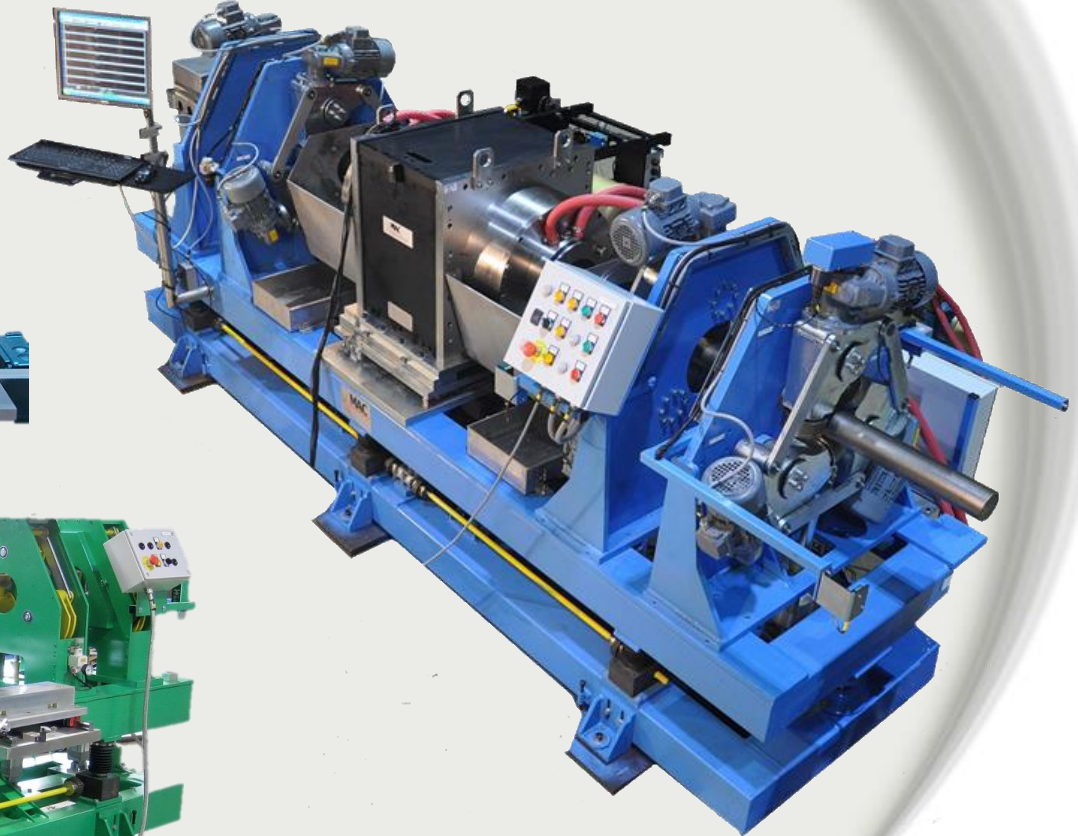


Material Handling

- Modular For Easy Customization
- Handle a Range of Lengths
- Automatic Feeding
- Automatic Sorting
- Test Benches



Test Benches



Auxiliary Equipment

- Demagnetizers
- Sorters
- Markers
- Magnetism Detectors
- Encoders
- End Sensors



Engineers

- Engineers
 - Electrical
 - Software
 - Mechanical
 - Field

Manufacturing

- Machinist
 - Responsible for interpreting drawings
 - proficient in vertical and horizontal mills, engine/turret lathes and surface grinding.
 - knowledge of using precision measuring equipment such as a Micrometer, a Vernier Caliper, Dial Indicators and Gage Pins/Blocks.

Manufacturing (cont.)

- Electrical Technician
 - AAS, Associate degree in Electrical Technology
 - Ability to understand and work with schematics
 - Knowledge of electrical theory and terminology required
 - Ability to communicate effectively
 - assemble electrical control panels, junction boxes and wire harnesses from print

Manufacturing (cont.)

- Mechanical Assemblers
 - Extensive mechanical background.
 - Auto mechanic that rebuilds engines, or automatic transmissions
 - Aircraft mechanic
 - Read and understand prints
 - Able to use precision measuring equipment like micrometers, Vernier calipers and dial indicators.

We offers a competitive salary and an excellent benefits package which includes medical, dental, vision, and 401(k) plan

EEO/M/F/V/D