

# MAC introduces new Echomac® 25mm UT Rotary Tester

**M**agnetic Analysis Corp.'s new 25mm UT Rotary is designed for high speed flaw and dimensional ultrasonic inspection of tubes and bar in high precision applications.

The Echomac® 25mm Rotary provides 100% coverage at high throughput rates on thin wall product ranging from 5 to 25mm diameter, and is especially well suited for challenging applications requiring high performance, such as tubular product for nuclear and aerospace installations.

When used with MAC's Echomac® instrumentation, the Rotary system offers superior inspection of ID/OD, longitudinal and transverse flaws, wall thickness and dimensional evaluation including conditions of eccentricity and ovality.

The Echomac® FD-6A electronics has received GE qualification for P3TF31, Class



Echomac® 25mm Ultrasonic Rotary Tester for small diameter tube

A & B, & P29TF82 Class A & B, a typical requirement for nuclear and aerospace applications. The

FD-6/6A software can be equipped with a C scan for ease of test result analysis.

With an overall length of 630mm, the 25mm Rotary also allows trouble-free upgrades for inspection lines where space may be limited. Wall thickness down to 0.3mm, and tubes as short as 1 meter, can be successfully tested. Features include a transformer design which ensures improved signal to noise ratio, a wide range of selectable band pass filter settings, precise thickness resolution (1  $\mu$ m) and excellent repeatability and reliability.

With zero channel cross-talk, 8,000 RPM running speed, precision test blocks and transducer holders, and convenient adjustment of the transducer angle, this Rotary provides optimum results. The Echomac® series is being used for applications ranging from full body testing and weld zone inspection during production, to 500mm Ultrasonic/Flux Leakage test systems for large diameter OCTG pipe.



Echomac® Ultrasonic system, featuring 25mm UT Rotary for testing small diameter bar