EMPHASIS: Rod Production

Ultrasonic Rotary to Test Small-Diameter Bar

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Jean R. Gould, Marketing Manager Magnetic Analysis Corporation 103 Fairview Park Drive Elmsford, N.Y. 10523-1544 USA www.mac-ndt.com Capable of detecting the very small mandated notches that are dictated by the aerospace, nuclear and medical industries.

Magnetic Analysis Corporation (MAC) has recently supplied an ultrasonic test system to a major finishing processor of bars for medical components. Featuring MAC's new top of the line 25 mm Echomac® UT Rotary, Echomac® FD-6A electronics, triple pinch bench and a customized belt conveyor and sorting system, this inspection apparatus is capable of testing to the highest quality levels, detecting the very small mandated notches dictated by the aerospace, nuclear and medical industries.

The new Echomac 25 mm Rotary provides 100% coverage at high throughput rates, ranging up to 200 fpm, depending on customer requirements. Features include a transformer design, which ensures improved signal-to-noise ratio, enhanced bandwidth, zero channel cross-talk, 8000 RPM running speed, precision test blocks and transducer holders.



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

Other advantages include convenient adjustment of the transducer angle, fast changeovers and control by an easy to use PLC with touch panel. Bars as short as 1 m can be successfully tested and the 630 mm overall length of the rotary also allows for ease of installation in existing inspection lines that need upgrading.

The Echomac FD-6A software includes a C scan for ease of test result analysis. Special mechanics are provided to handle the small diameters with maximum protection for the surface of the material under test and the triple bench is provided with a Lexan hood to ensure safety of the operator while allowing the test to be visually monitored.

MAC's Echomac FD-6A instrumentation is also GE qualified to meet certain typical requirements for critical applica-

tions such as nuclear and aerospace. The 25 mm Echomac joins MAC's line of ultrasonic rotaries that now handle material ranging from 5 to 500 mm diameter.



Echomac® 25 mm ultrasonic rotary for testing small diameter bar.

To learn more about Echomac FD-6A inspection systems, able to detect to the highest quality levels of the very small mandated notches dictated by the aerospace, nuclear and medical industries, visit the website below.

www.mac-ndt.com

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Company Profile:

Magnetic Analysis Corporation (MAC), has been advancing the science and technology behind nondestructive testing for over 90 years. On the world stage, MAC® is recognized as a major resource for eddy current, electromagnetic, flux leakage and ultrasonic inspection systems for testing metals. Dedicated to a production-oriented approach, MAC offers both individual instruments and complete systems that incorporate material handling and controls as well as nondestructive testing. Our focus is on our clients' expectations for superior technology, reliability and a thorough understanding of their product and in-plant conditions. Partnering with them, we develop a test system that is the best one to meet both their specifications and their internal needs. www.mac-ndt.com