

Echomac® 180 PA

Ultrasonic Phased Array System For Testing Broad Ranges of Bar Sizes



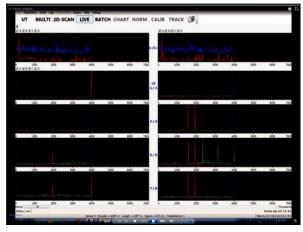


Complemening MAC's broad range of Rotary Ultrasonic testers, the Echomac® PA system is designed for those applicaions that can benefit from its unique capabiliies, including high-speed parallel processing to handle a large amount of data.

The system is capable of generaing normal incidence as well as clockwise and counterclockwise shear waves electronically from transducer arrays, providing defect detecion in both core and surface sub-surface. You can test a range of sizes, or fine tune incidence angles, without having to make physical adjustments to the transducer positions.

System Shown Above:

- ☐ Testing hot rolled bars, 90 180mm diameter
- \square At throughput speeds of 10 20 m/m
- ☐ Finding FBH (flat bottom hole) core defects, of 1.2mm 1.6 mm at 25%, 50% and 75%.
- ☐ Finding 1.6mm diameter FBH subsurface defects at 3mm & 5mm depth.
- ☐ Locating surface notches 0.2mm x 10mm length on hot rolled bars



System Design Features:

- Multi-element transducer probes are positioned at multiple locations around the bar, and can be used for working at different angles of incidence and different depths.
- ☐ Convenient transducer holders accommodate different size ranges and allow for fast changeover times.
- ☐ Unique water box design minimizes water loss and bubbles, while ensuring bars are properly centered relative to the transducers.
- ☐ Software based on the MAC Echomac® platform which is recognized in the industry for power and flexibility.
- ☐ Sizes up to 200mm, and other configurations are available, including designs for square or round bars.

Echomac 180 PA live screen display of a calibraion standard with defects.

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