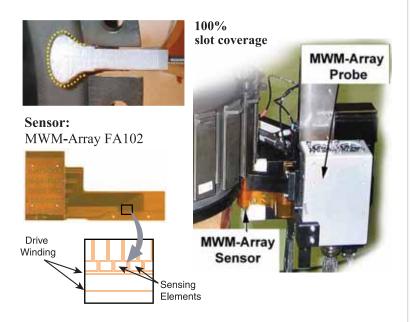
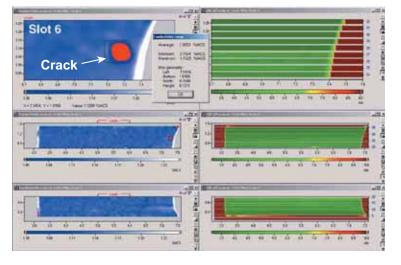
## **Automated Engine Disk Slot and Blade Dovetail Inspection Using Conformable MWM Eddy Current Sensor Arrays**

## **Engine Disk Slot Inspection**

- In use at NAVAIR Depot since April 2005
- Nine disks with verified cracks detected, several of these large and small cracks not detected by conventional ET and LPT
- No False Indications on 131 disks at NAVAIR Depot (Over 3000 slots inspected ⇒ false call rate per slot < 0.03%)</li>
- All disks now subjected to mandatory inspection using the MWM-Array system during engine processing at the NAVAIR Depot

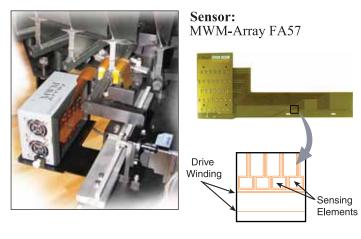


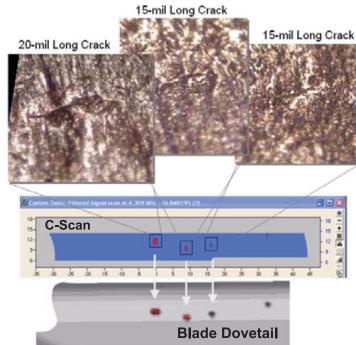
## **GridStation® Software Environment**



## **Engine Blade Dovetail Inspection**

- Demonstrated prototype
- Proven MWM-Array crack detection
- · Low false indication rate
- Throughput: 1 to 2 min. per blade
- Air calibration (with verification on real cracks)
- Anti-fretting coating inspection





For More Information Contact Dr. Neil Goldfine at 781-642-9666.

Send us your most challenging NDE problems.



110-1 Clematis Avenue, Waltham, MA 02453-7013 Phone: 781-642-9666 • Fax: 781-642-7525 • email: jentek@shore.net