

# How Nondestructive Evaluation Reduces Risk and Boosts Productivity

Manufacturers can decrease failures and other risks while increasing productivity by using advanced nondestructive evaluation (NDE).



**EWI can provide advisory, development, and implementation services for applying NDE to minimize risk and maximize customer satisfaction.**

#### **EXAMPLE: Advanced X-Ray Inspection for Electronic Devices**

Bak USA, a manufacturer of mobile computers, was looking for an NDE solution that could detect a range of common assembly issues of their rugged Seal tablets. EWI tested and analyzed several alternative technologies and found the NDE technique that helped Bak USA identify more effective failure analysis techniques and improve quality control.



#### **EXAMPLE: Extending the Lifetime of Aircraft and the Space Station**

Aging space structures like the International Space Station do not yet have reliable structural monitoring systems. Fatigue cracks can grow, potentially causing catastrophic failure before damage is detected. The early damage formation cannot be detected with conventional methods. EWI has the capability to develop, automate, and test for damage occurring from cracking and corrosion. As the industry looks at further life extension for aircraft, space vehicles to be reused and reflown multiple times, and use of future new vehicles developed for use in Cislunar Space and beyond, this will become increasingly important.



NDE can be performed with little to no downtime with EWI's unique skills in the process automation and analysis of examination data. EWI develops innovative NDE solutions at our three technology centers in Loveland, CO, Columbus, OH, and Buffalo, NY.

To learn how your organization can use NDE to reduce risk and liability, contact Shaun Freed at [sfreed@ewi.org](mailto:sfreed@ewi.org).