Incorporating nondestructive evaluation (NDE) concepts and applications throughout the product development timeline can give your company a competitive edge.

**Increase Manufacturing Throughput and Speed Time-to-Market with **

**NDE Technology**

Incorporating nondestructive evaluation (NDE) concepts and applications throughout the product development timeline can give your company a competitive edge.

**Improve Time to Market**

- NDE facilitates quicker design acceptance by reducing risk and eliminating needs for overdesign or costly tight tolerances.

**Increase Throughput**

- Including NDE early in design-for-inspection concepts facilitates quicker assembly, installation, data logging, and certification processes later.

**Concept and Market Feasibility**

- NDE reduces prototype and build spins through maximum extraction of performance data and integrated computational modeling of structural integrity and sensor-to-defect optimization.

**Design and Prototypes**

- In-line, automated NDE inspection speeds up the testing of parts and eliminates destructive sampling.

**Manufacturing and Process**

- NDE improves process and material development time through reduction in “break open” or destructive validation tests.

- Early detection of defects during intermediary manufacturing stages reduces need for rework at the end of production, and also pinpoints location and severity for quicker repairs.

**EWI OFFERS THESE NDE CAPABILITIES AND TOOLS**

- **Ultrasonics** (laser, phased arrays, and traditional)
- **Electromagnetics** (property extraction, multi-array sensors, and traditional eddy current)
- **Thermography** (active, passive, and high resolution methods)
- **X-ray CT**
  - Computer modeling of NDE and material defects
  - Machine vision and optical metrology
  - Robotics and analysis automation
  - Structural integrity modeling

To learn how EWI can help your organization use NDE to reduce cycle time and make your operations more efficient and productive, contact Shaun Freed at sfreed@ewi.org.

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