



**Nondestructive Testing Systems by Automation Industries Detect Internal Defects at Full Process Speeds**

## **56510 Series Ultrasonic Scanning Systems**

- **Detect internal lack of fill, blisters, delamination, and unbonded areas online.**
- **Available as a stand alone system or as a module of the AccuScan Integrated Quality Assurance System.**
- **Self protective during plant startup.**
- **Proven technology....approximately 500 industrial on-line installations, numerous installations in service over 20 years, 24/7 in harsh environments.**
- **Non contact, Non intrusive, Non Nuclear.**
- **Detect process problems as they occur for rapid correction and elimination of defects produced.**

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## Features of the Model 56510

- Well proven technology, excellent longevity, durable and available in the full range of Automation Industries Aircoupled Ultrasonic Sensors.
- Imbedded industrial grade PC provides for downloadable recipe selection, system diagnostics, process diagnostics and sophisticated detection parameters which are user defined, realtime display of product characteristics.
- Collimated sensor beams provide maximum defect detection capability.
- Full retract capability for continuous process lines.
- By selecting the appropriate sensors, the 56510 is capable of locating marginal bonds in coextrusion over scrim products or performing internal lack of bond or delamination defect testing on heavier continuous sheet lines including plastics and wood fiber based products.
- Available with defect marker array.
- System circuit boards and transducers are form, fit and function design.
- Produced in antistat environment, preshipment burn in.
- Antifungal, antihumidity coating on circuit boards.
- Air coupled, noncontact, nonintrusive sensors.
- The entire cross machine drive mechanism is overhead, out of process residues. The drive motor is a stepper motor and provides for programmable start, stop and reverse ramps as well as cross machine resolution.

## Specifications:

- Input voltage: 100 to 130 VAC, single phase standard, other input voltages available on special order. System draw is less than 20A at 120VAC.
- Outputs: Defect output is 1A, 120 VAC optoisolated solid state relay for each scan zone and for system alarm outputs.
- Interface: Numerous, specified at the time of order.
- Number of scan zones: Up to 16 standard, 24 and 36 available on special order.
- Minimum detectable defect size: 0.100" in some materials, specified based on samples of customer product. From the minimum size, the detectable size is user defined by setting multiple parameters which define "defect".
- Frequency of operation: 50khz to 100khz standard, others available.
- Sensor update rate: Programmable up to 135 samples/sec/scan zone.
- Product thickness capability: Varies broadly depending upon the selection of sensors and product characteristics. Commitment for guaranteed function is based on evaluation of customer product samples.
- Cross machine scan rate: Programmable, up to 15"/second.
- Process line widths: Up to 12' standard.
- Electronics enclosure: NEMA 12 or factory floor pedestal.
- Operating temperature range (ambient): 0 through 135 degrees F.
- Humidity: Noncondensing.
- Structural: Steel structural tubing, fabricated steel parts, machined steel parts.
- Coatings: Primed, then covered followed by texture, catalyzed polyurethane enamel.