



*CROSS MACHINE THICKNESS PROFILE

*EDGE PROFILE/WIDTH

- ✓ Quality, industrial grade construction, a complete solution
- ✓ Accurate, closed loop grade data and data transfer
- ✓ Readily interfaced with popular mill net systems.
- ✓ Data archival capability
- ✓ Thirty + years experience manufacturing industrial, on-line thickness measurement systems.
- ✓ Sensors, electronics, fixturing and software are all designed and manufactured exclusively by Automation Industries Corporation. Proven long life and reliability.

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Features of the AccuScan System for Gypsum Board Lines

- **Thermoelectrically cooled lasers for long life and trouble free operation.**
- **Computer calibrates laser measurements to NIST traceable standards.**
- **All traversing mechanism components are located overhead, out of process residues. Vee rails and wheels are case hardened for long life.**
- **Differential laser heads are protected from startup and paper break residues by a shutter operated by the plant PLC and a mechanical guard as well.**
- **Industrial grade computers are used throughout the system. There are no custom circuit boards in the computers and the boards used are multisourced. Computers are provided with extra cooling fans.**
- **Operator interface may be located at the wet end, coupled to the system scanners by optical fiber.**
- **The AccuScan System is a complete, turn key system, including scanner frames, scanner drives and logic and industrial packaging, and software appropriate for the gypsum board process, not just a kit of sensors and logic.**
- **Laser heads are a unique, patented design that provides inherent linearity, not computer guesses at what the true measurement should be. Lenses are precision glass instead of plastic and the mounts are 1/2" bolts. The laser heads are designed, developed and manufactured by Automation Industries.**
- **All AccuScan scanning frame types are designed to eliminate measurement error due to expansion and contraction of the frame materials. Purchaser is provided with manufacturer and manufacturers part numbers for out sourced components such as motors, motor controllers, computers, etc.**
- **Antifungal, antihumidity coating on system circuit boards.**

Specifications

- **System Supply Voltage: Computer grade supplies for system electronics, 120 VAC, 60 Hz, single phase standard, others available on special order. Draw is approximately 5A each @ 120VAC for the Cross Machine Profile scanner electronics, Edge Profile/Width scanner electronics and the Operator Interface. These should be supplied by a UPS. The Cross Machine Profile scanner motor controller requires a separate 120 VAC supply, 20A circuit. The Edge Profile/Width scanner drive motor is a 1 1/2 hp motor and can be supplied in common single or three phase voltages.**
- **Cross Machine traversing rate: Programmable, up to 15 inches/second with programmable accelerate and decelerate ramps.**
- **Thermal Measurement Drift: Negligible over a range of 0 degrees F to 130 degrees F ambient temperature.**
- **In Process Accuracy: +/- 0.0025" over a 2 1/2" product thickness range and supported by system acceptance proof of performance procedures. Specified in this manner assures that the specified accuracy is realized accuracy and encompasses the sensor heads, system electronics, scanning frame and plant environment.**
- **Profile Sensor Resolution: 0.001"**
- **Edge Profile/Width Sensor Resolution: 0.002"**
- **Electronics Enclosures: NEMA 12, gasketed enclosures.**
- **Scanner Frame Materials: Steel structural tubing, fabricated steel, with case hardened, precision Vee track.**
- **Coatings: Primed, followed by cover and texture coats of polyurethane enamel.**