

DIMETIX APPLICATION EXAMPLE

AE-0507

SAW BLADE ALIGNEMENT

Industry : Wood and metal machines
Application type : Position measurement

Brief description



Pic 1: Gantry saw with Dimetix Laser

In this application two laser distance sensors were mounted on each end of an extrusion to measure the difference in distance to the saw blade. A micro controller recorded the distances and provided a quick and easy display of the front to back alignment for re- view as desired. The system includes misalignment tolerances to trigger an out of tolerance condition for the operator.

These principles could easily be applied to any alignment application. By using at least three sensors, target straightness could also be monitored. The range of the available Dimetix laser distance sensors enables measurement from a few inches up to 500 meters.

On the micro controller screen shown in Pic. 2, two distances are displayed on the top line of the interface. The alignment dimension is shown below. The check mark indicates the measurement is within tolerance.



Pic 2: Controller unit

Customers advantages

- Production quality improved and scrap reduced
- Non-contact, eye-safe laser measurement
- Measurements can be acquired by a PLC or PC
- Maintenance free — no breakable moving parts
- Economical, rugged, and compact package

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