

Trim analysis system



Quality control equipment for squares — 2 or 4 sides

This system ensures quality control over squares machined on 2 or 4 sides. Directly installed at the planer output, this system analyzes the physical characteristics of squares using a software application that analyzes the data generated by a laser profilometer.

RETURN ON INVESTMENT AND DIRECT BENEFITS

For a mid-sized sawmill, the return on investment is estimated at **less than nine months**. This is attributable to:

- Reduction in the target dimensions;
- Increased chip volume;
- Increased final sawmill output value;
- Rapid detection of equipment failures;
- Reduced maintenance downtime.

Square analysis system

Log quality control (2 or 4 sides)

TECHNICAL SPECIFICATIONS

- Can operate at a speed of 500 ft/min
- Accuracy of dimensional readings: ± 0.005 in

The analysis data are provided in real time:

- Square dimensions
- Errors in square positioning:
 - Centering
 - Alignment
 - Rotation
- Errors with respect to the parallelism and squaring of machined faces
- Longitudinal tapering
- Presence of saw marks
- Ruggedness and tearing of machined surfaces

OTHER FEATURES

- Possible plane alert: saw centering and variations
- Alarm version for uncontrolled situations
- Possible secondary flow optimization

MAIN APPLICATIONS

This system is presently used at sawmills for resinous trees but could be adapted to leafy trees. The application could easily be used in fields as varied as:

- The production of cottages from round logs, telephone poles, and any other machined components;
- The production of extruded materials;
- The production of aluminium billets.

For further information and advice on square analysis system:

François Gingras, director
Productivity and Industrial Systems
333, rue Franquet, Québec (Québec) G1P 4C7
418-659-1550 / 800-667-2386, ext. 2209

Guy Genest, Coordinator
Business Development
333, rue Franquet, Québec (Québec) G1P 4C7
418-659-1550 / 800-667-2386, ext. 2879



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