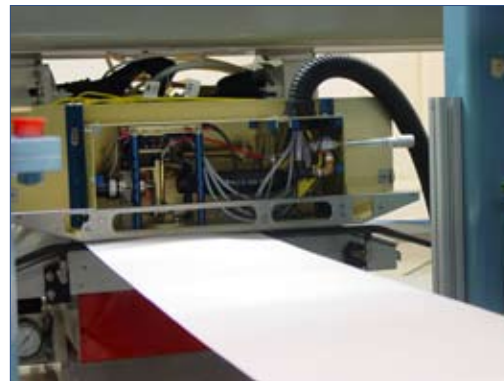


Saving Energy for Pulp and Paper Industry with Laser Ultrasonics

Non-contact, non-destructive sensor to save energy & natural resources

- Bending stiffness & shear rigidity measured on-line, enables:
 - Detection of mechanical flaws at high production speeds
 - Reduced consumption of feedstock trees, chemicals and energy by feedback process control
 - U.S. energy savings (Coal, Electricity, Oil): 8 TeraWh/yr (\$175M/yr)
- EETD researchers continue to advance sensor development:
 - Extending method to heavier grades
 - Automating operation of mechanical system and data analysis
- Excellent performance at paper speeds up to industry maximum of 5000 ft/min (57 mph)
- Winner of the 2006 R&D 100 Award



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