

## Lumber Tension Tester - Offline

**PROVIDES TENSILE QUALITY  
CONTROL IN MSR/MEL LUMBER  
PRODUCTION**



## Quick and accurate solution for tension testing

If you are concerned about the strength of lumber, finger joints, nail plates, or new connector design, then you need machinery for tensile loading of these materials/systems and an accurate measurement of the loads applied.

Lumber Tension Tester - Offline (formerly known as Metriguard 401 and 403) is an off-line tester which performs accurate tensile proof testing. The equipment is designed to accommodate dimension lumber and other materials and to quickly and conveniently test the materials by applying tensile loads.

Each of the two clamps in the frame contains a pair of grip plates. There are differences in the friction characteristics of the wood/grip interface for the different wood species and different grip surfaces. We offer two polymer and one abrasive grip.

The software package uses a Windows UI for intuitive operator interaction, with on screen prompts and color-coded status indicators that will lead the operator through the required test sequences.



## Key benefits



**EASY AND FAST  
INSTALLATION AND  
START-UP**



**ONLY ONE OPERATOR  
NEEDED**





# Technical specifications

Lumber Tension Tester - Offline	
Test material Thickness (in/mm)	1.25 - 2.00 / 32 - 51
Test Gauge Length increments (ft/mm)	1 / 305
Test Machine lengths (ft/mm)	16, 20 / 3 660, 4 877
Maximum Tensile Force (lb /kN)	100,000 / 440
Maximum Tensile Stroke (in/mm)	4 / 102
Test material Width up to (in/mm)	11.75 / 290
Test material minimum length ft/mm)	5 / 1 524

# Lumber analyzers

## Profitable solutions for lumber strength grading and testing

Lumber analyzers are the perfect solution for improving your lumber material's value and quality control.

When utilizing automatic strength grading, it is also needed to monitor the performance level of the systems with offline quality control. For that purpose, we have two different lumber testers to choose from.

Automatic lumber strength analyzers are installed on the lumber grading line for grading the lumber based on their strength properties. Instead, the lumber testers are offline solutions for quality control in sawmills' quality control laboratory or third-party testing facility.

More information about the analyzers and testers is available on their product pages below.



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Making Wood Matter