

Viscan

Worldwide certified strength grading and sorting



The expert in strength grading

Viscan Strength Grader is the best in class optical laser interferometer scanner for determining the MOE of lumber. It fulfills all relevant strength grading certifications worldwide. Viscan measures the board's resonance frequency thanks to a high performance laser vibrometer that works independently of environmental interferences such as noise. Viscan Strength Grader reaches a measurement repeat accuracy of over 99 percent.



«Viscan Strength Grading reliably determines the strength of lumber, even at high production pace in transversal transport. Its unique technology is accredited worldwide as the best non-destructive strength grading solution.»

Dott. Ing. Federico Giudiceandrea
Microtec CEO

Viscan features

- × Determines accurately and reliably MOE of lumber
- × Worldwide-accredited stress grading solution that is compliant to most grading standards worldwide
- × Enables automatic sorting in certified strength classes
- × Grades green or dry lumber non-destructively and independently of interfering ambient conditions
- × Measurement accuracy of over 99%

Viscan in three editions

The accuracy of Viscan can be further enhanced in combination with density. Information about a board's density further improves the predicted strength determination. Such extension can be achieved through a mechanical scale, Viscan Compact, or with the X-ray module Viscan Plus.

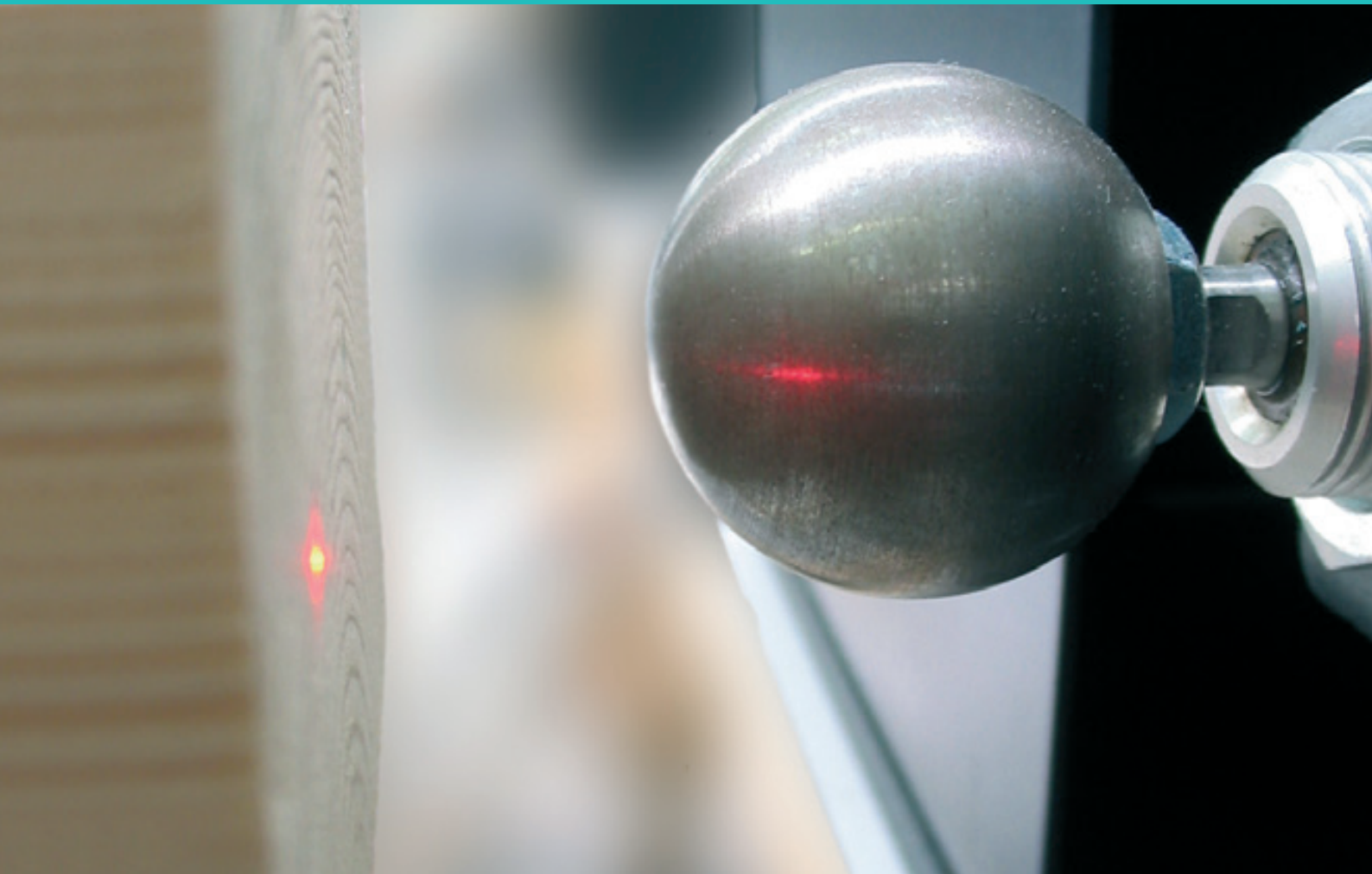
Viscan Strength Grader can be further combined with the Goldeneye Multi-Sensor Quality Scanner to increase the correlation to MOR and MOE.



Laser interferometer measures resonance frequency
A hammer hits lumber passing the Viscan while the laser interferometer measures the oscillation directly on the board. Using the measured frequency and board length, Viscan calculates the dynamic modulus of elasticity (MOE). Viscan automatically sorts lumber into strength classes according to most strength grading certifications worldwide.

Viscan series	Viscan	Viscan Compact	Viscan Plus
Resonance frequency (laser interferometer)	✓	✓	✓
Weight (mechanical scale)		✓	
Density (X-ray)			✓
Conveyor speed	240 lugs/min	up to 35 lugs/min	240 lugs/min*
Cross-section	up to 120 × 300 mm (5 × 12 in)		

* according to EN 14081 the conveyor speed is limited to 180 lugs/min



World leading wood scanning solutions

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