



## IML Range of Products

Innovative Wood Testing Systems  
for Trees and Timber Structures





## Just know what you can't see

The IML range of measurement and test instruments provide reliable information about the current condition of the wood as well as possible defects that often cannot be seen from the outside.



Tree care and inspection to maintain safe parks, roadways and forests



Diagnose decay in wooden playground equipment as required by law



Check the stability of utility poles



Inspect structural wood in timbered houses, bridges and buildings on stilts for vulnerabilities and safety risks



### IML-RESI MD-Series

Lightweight hand drill, fast and easy to use

- Cost-effective instrument for rapid preliminary diagnosis of trees
- Simple measurements of penetration resistance by directly reading the drilling depth in a 1:1 scale
- Results on-site and right away



### IML-RESI F-Series

Handy and flexible use for all trees plus the application areas listed above

- Cordless drill as drive unit
- Documentation of measurement results directly on-site
- User-friendly operation



## IML PowerDrill®:

### Connecting Passion and Perfection

The IML-RESI PD-Series represents the beginning of a new generation of measuring instruments!



Paper is a thing of the past with the digital display on this device!

#### IML-RESI PowerDrill®

The innovative all-rounder among drill-resistance measurement instruments

- Easy-to-read, clear display
- Straightforward and fast digital data collection
- Prevent fatigue with its ergonomic design and light weight
- High drilling performance with minimum power consumption
- Rugged, splash-proof aluminium housing
- Simultaneous recording of the drilling resistance and feed speed curve for improved identification of decay
- Automatic curve evaluation for wooden playground equipment and timber poles

# IML Micro Hammer and IML Fractometer

Measurement of trees and timber structures with sound velocity and bending and compression strength



## IML Micro Hammer

For the gentle measurement of internal defects with sound velocity

- Shock resistant and water proof plastic housing
- Minimal damage to the tree in the sapwood area
- Rapid and accurate measurement on site
- Digital recording of the measured data
- Microsensors with magnetic fastening system
- OLED display for showing the measurement results
- Electronic unit for collecting and saving the measurement data
- Integrated Bluetooth function for wireless data transmission to your PC or Laptop



## IML Fractometer I

Bending strength measurement of a wooden core sample

- Measurement of the bending strength of wooden cores
- Evaluation of decayed wood by determination stiffness and fractures strength
- Detection of decay and lignin destruction
- Brown rot is indicated by small bending angles and low fracture strengths

## IML Fractometer II

The Fractometer II is a mechanical measurement instrument to determine characteristic values of bending and compression strength of wood. The corresponding Fractometer table makes possible a quick determination and comparison of the wood quality.





## IML Measuring Table and General Accessories



### IML Measuring Table

For the detection and evaluation of growth behaviour of trees

- Easy-to-use electronic unit
- Digital microscope camera or high resolution stereo microscope available
- Exact evaluation of tree rings of increment core samples and tree discs
- Identification of disturbances of development and growth as well as weak growth
- Illustration and assignment of changes, dysfunctions or weak points
- Findings about the vitality of a tree
- Possible conclusions on environmental influences



### IML Probe Rod

The IML Probe Rod assists you to locate decay in trees or timber structures. The Standard length is 600 mm and the diameter is 7,0 mm. The IML Probe Rod also has a 100 mm scale.



### IML Tree Labels

IML Tree Labels made of anodized aluminium can be labelled using laser technology according to your requirements. The aluminium plates are available in black, red, green and blue.



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