



## Overview

Test and Measuring Instruments  
for Trees and Timber Structures



### **Tree Care and Tree Inspection**

In the context of the duty of public traffic



### **Utility Pole Inspection**

Controlling the stability



### **Playground Equipment Inspection**

Decay diagnostics can avoid accidents



### **Evaluation of Construction Wood**

For timbered houses, bridges and pile dwellings

## Just know, what you can't see

### Reliable statements with little effort

In order to detect defects that often cannot be seen from the outside, the evaluation of the inner conditions of wood with the IML measurement and control instruments is the perfect complement to visual control.

## IML-RESI Systems

### Fast results thanks to the drilling resistance measurement

A drilling needle is inserted in the wood under constant drive. While drilling, the needed energy is measured depending on the drilling depth of the needle. That way, anywhere and with little effort it is possible to get information about structures, inner defects, residual walls of trees and wood.

### IML-RESI systems for all kinds of application

For basic applications we offer three mechanical IML-RESI systems with a major focus on sturdiness and compactness. The three electronic versions of the IML-RESI allow an electronic registration as well as an individual storage of the measurement data.





## Mechanical RESI series

- The IML-RESI MD300  
Light hand drilling instrument for preliminary investigations of trees
- The IML-RESI F series  
Handy and all-purpose for flexible use
- The IML-RESI M series  
Extremely sturdy and resistant for demanding wood





## Electronic RESI series

- The IML-RESI E series  
Digital storage of measurement data and printout on the spot
- The IML-RESI B series  
Precision measurement instrument with extremely high resolution for detailed results
- The IML-RESI PD series  
Uncompromising precision for all kind of applications with individual special options



# Further IML measurement and analysis systems

## Fractometer

Evaluating objectively the strength of wood by measuring the bending and compression strength of a wooden core.

- **Fractometer I:**  
Pocket sized instrument to measure the bending fracture strength
- **Fractometer II:**  
Mechanical measurement instrument to measure the bending fracture strength and the compression strength
- **Fractometer Print:**  
Electronic version to measure the bending fracture strength and the compression strength with a separate electronic unit and data evaluation on the PC



Fractometer I



IML Measuring Table



IML Micro Hammer

## IML Measuring Table

Analysis of the annual rings for identifying the growth characteristics of trees.

- For core samples and tree discs
- Identification of disturbances of development and growth
- Possible conclusions on environmental influences

## IML Micro Hammer

The IML Micro Hammer localizes inner defects of trees in a gently way by measuring the sound velocity:

- Decay in the early stages of growth
- Brown and white rot
- Cavities, wet cores
- Cracks in fork areas

# Welcome with the experts

## Safety and service

IML is the leading manufacturer of test and measuring instruments for trees and wood and offers a unique combination of wood-functional and device-related expertise.

- Service inspection and calibration
- TÜV certified quality and guarantee
- Intensive courses for professional use of our IML measurement instruments
- Individual seminars and workshops



## Workshops also at customer's site – and worldwide!

On demand, we are glad to offer you personal workshops on every customer's site of the world. Alternatively you can participate on our online seminars.

For current seminar and workshop dates see:  
[www.iml.de](http://www.iml.de)



**IML-Instrumenta Mechanik  
Labor System GmbH**

Großer Stadtacker 2  
69168 Wiesloch, Germany

Phone: +49 (0) 62226797-0  
Fax: +49 (0) 6222 6797-10

info@iml.de  
www.iml.de