

# IML Fractometer I

Bending strength measurement

## IML Fractometer I

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The IML Fractometer I measures the bending strength of a previously removed wood core sample. The measuring range extends over 150FU (fractometer units). Different bending forces are adjustable by means of an adjustment wheel.

### Scope of Delivery:

- Fractometer I
- Leather pouch
- Instructions manual



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IML Fractometer I

Item No. 4000100

# IML Fractometer II

Bending and compression strength measurement

## IML Fractometer II Complete Set

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The IML Fractometer II measures the bending and compression strength of a previously removed wood core sample.

### Scope of Delivery:

- Fractometer II, cutting knife, tweezers, cutting board, test pin, instructions manual
- Jim-Gem increment borer (drilling depth 400 mm) with instructions manual
- Extension and pull-off loops for the taking core samples
- IML probing rod with extension (length 900 mm)
- Maintenance kit with 6 x wooden supporting battens, 1x glue can, 1x oil can, 1x ejector for cores, 1x grindstone for interior of drill, 1x grindstone for exterior of drill, 1x cleaning brush with extension and 2x spare bolts for increment borer
- Aluminium transport case with foam insert and key



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IML Fractometer II Complete Set

Item No. 4000250

**2.710,00 €**

## IML Fractometer II

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The IML Fractometer II measures the bending and compression strength of a previously removed wood core sample.

### Scope of Delivery:

- Fractometer II
- Cutting knife
- Tweezers
- Cutting boards
- Test pin



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IML Fractometer II

Item No. 4000200

**2.075,00 €**

IML Fractometer II  
with aluminium transport case, foam insert and key

Item No. 4000202

**2.290,00 €**

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# „Jim-Gem‘ Increment Borer

Extraction of core samples

## Increment Borer „Jim-Gem‘

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„Jim-Gem‘ increment borers are used for taking core samples and thus checking the quality of the wood and measuring the growth rate of trees. The increment borers are manufactured from special steel and Teflon coated to prevent friction heat (important for inspecting standing / sap conducting trees).

- Drilling depth: 400 mm
- Cutting edge: 3-helical
- Core diameter: 5,0 mm

### Scope of Delivery:

- Increment borer with shank, drill and needle
- Instructions manual



Increment Borer „Jim-Gem‘  
Drilling depth 400 mm

Item No. 4000121

264,00 €

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## Increment Borer „Jim-Gem‘ Complete Set

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### Scope of Delivery for Complete Maintenance Set:

„Jim-Gem‘ increment borer (drilling depth: 400 mm, 3-helical blade) with shank, drill and needle, 1x ejector, 1x grindstone for interior of drill, 1x grindstone for exterior of drill, 1x oil can, 1x cleaning brush with extension, 2x spare bolts and 6x supporting battens of wood with glue can



Complete Maintenance Set

Item No. 4000126

393,00 €

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# Optional Accessories

„Jim-Gem“ increment borer

## Maintenance Set

Maintenance set for Jim-Gem increment borer



Scope of Delivery for Individual Maintenance Set:

1x ejector for drilling cores, 1x grinding wheel for drills inside, 1x grindstone for interior of drill, 1x grindstone for exterior of drill, 1x oil can, 1x cleaning brush with extension and 2x spare bolts

Maintenance Set „Jim-Gem“

Item No. 4000127

130,00 €

## Extension and Pull-Off Loops

Extension to increase the leverage effect when screwing the increment borer in and out



Extension and Pull-Off Loops for „Jim-Gem“ Increment Borer

Item No. 4000145

169,00 €

## Ejector

Ejector for damage-free extraction of the drill cores from the increment borer



Ejector for „Jim-Gem“ Increment Borer

Item No. 4000128

17,50 €

# Complete Kit for Treatment Quality Test

Inspection of treatment qualities in wooden poles

## Complete Kit for Treatment Quality Test

With the complete kit it is possible to detect treatment qualities and depths of wooden poles. A small core is being removed with the use of the test nail and the hammer. Afterwards a visual analysis of the core gives clarity of the treatment.



Complete Kit for treatment quality test  
- incl. 2x test nails, hammer, ejector, 100x plugs

Item No. 4000157 **105,50 €**

Test Nail Kit (2 pieces)

Item No. 4000153 **21,50 €**

Ejector

Item No. 4000154 **32,00 €**

Hammer

Item No. 4000155 **32,00 €**

Impregnated Plugs (100 pieces)

Item No. 4000156 **9,50 €**

# Pole & Tree Gauge

Multi-purpose accessories

## Pole & Tree Gauge

Diameter & damage detection instrument



Up to 50 cm Ø; Depth: 11 cm



Up to 65 cm Ø; Depth: 20,5 cm

Pole & Tree Gauge „Mini“

Item No. 4100064 **24,00 €**

Pole & Tree Gauge „Maxi“

Item No. 4100066 **51,00 €**

# IML Probe Rod

Tree inspection accessories

## IML Probe Rod

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The IML Probe Rod assists you locate decay in trees. The robust stainless steel rod can be extended by up to 1500 mm by a threaded fitting. The standard length is 600 mm and the diameter is 7,0 mm. The IML Probe Rod also has a 100 mm scale.



IML Probe Rod  
Standard length 600 mm

Item No. 4000147

42,00 €

Extension for IML Probe Rod  
Length 300 mm

Item No. 4000148

13,50 €

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# IML Inspection Rod

Tree inspection accessories

## IML Inspection Rod

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The IML Inspection Rod helps you locate decay in trees.  
Length: 800 mm; Diameter: 5,0 mm.



IML Inspection Rod  
Length 800 mm

Item No. 4000146

14,50 €

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# IML Penetrometer

Tree inspection accessories

## IML Penetrometer

The IML Penetrometer is a mechanical gauge to determine the density of the soil. A 2.0 kg heavy falling weight is mounted on a 8.0 mm thick rod. The falling weight is dropped and encounters resistance, causing the rod to penetrate the ground. The penetration depth can be read by means of a scale.



IML Penetrometer

Item No. 4000149

322,00 €

# Stainless Steel Model / VTA-Pebble Hammer

Multi-purpose tool by Prof. Dr. Claus Mattheck and Dr. Klaus Bethge

## Stainless Steel Model for Tree Diagnosis

The stainless steel model is a multi-purpose tool for tree diagnosis. This tool measures the slenderness of tree trunks and branches. It may also be a non-dogmatic guide for shaping the crown of a tree according to the shape of brook pebbles. The model can show the highly loaded space under the tree determined with the force core method.



Stainless Steel Model

VTA-Pebble Hammer

Stainless Steel Model

Item No. 4000135

29,00 €

VTA-Pebble Hammer

Item No. 4000136

28,00 €

# Hazard Beam

Wood Model by Prof. Dr. Claus Mattheck

## Hazard Beam

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The hazard beam shows the emergence of a hazard beam crack on trees.



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Hazard Beam

Item No. 4000132

43,00 €

# Height Measurement Tool

Wood Model by Prof. Dr. Claus Mattheck

## Height Measurement Tool

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This survey tool provides an approximate measurement of tree height, but especially of the H/D ratio (degree of slenderness) of trees, co-dominant stems and also branches.



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Height Measurement Tool

Item No. 4000134

55,50 €

Complete Set  
Height measurement tool and hazard beam

Item No. 4000138

90,00 €

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# „The Body Language of Trees“

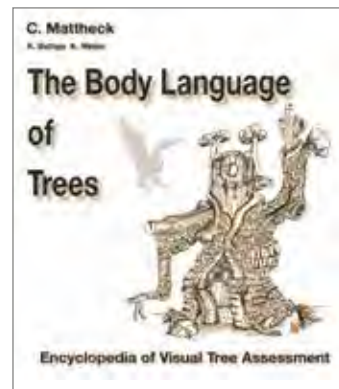
Technical literature

## „The Body Language of Trees“ – Hardcover

The Encyclopedia of the Visual Tree Assessment and body language of trees. Their shape is always the reaction to external influences or internal damage and can be traced through close observation. The book brings together the research of 25 years at the Karlsruhe Institute of Technology in Germany by Prof. Dr. Claus Mattheck.

Author: Prof. Dr. Claus Mattheck  
ISBN: 978-3-923704-89-7  
Scope: 548 pages

Price excl. VAT



„The Body Language of Trees“	Item No. 3000026e	91,59 €
„The Body Language of Trees“ (german version)	Item No. 3000026	91,59 €

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Technical literature

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Author: Prof. Dr. Claus Mattheck  
ISBN: 978-3-923704-72-9  
Scope: 120 pages

Price excl. VAT



„Stupsi Explains the Tree“ (german version)	Item No. 3000015	18,69 €
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Technical literature

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The book by Prof. Dr. Claus Mattheck is an easy-to-understand summary of his computer-free method of creating lightweight and durable components. Mattheck says, that these methods have changed his whole life.

Author: Prof. Dr. Claus Mattheck  
ISBN: 978-3-923704-73-6  
Scope: 236 pages

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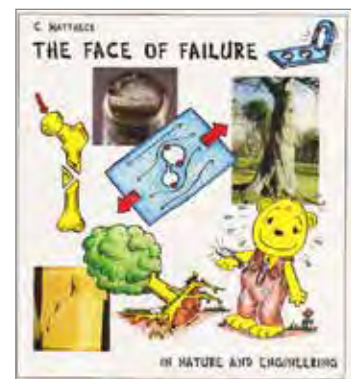
Technical literature

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Author: Prof. Dr. Claus Mattheck  
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Scope: 208 pages

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28,04 €

# „Pauli the Bear: Tree Mechanics‘

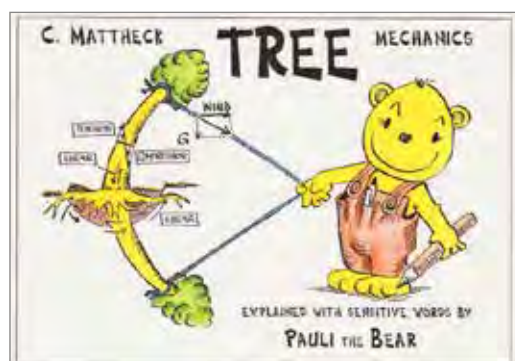
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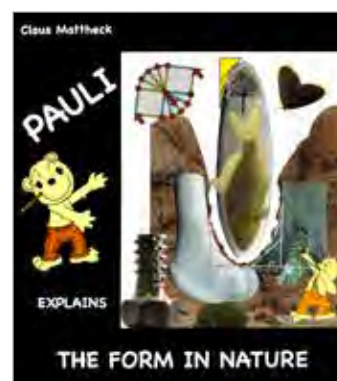
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