



Price List 2011

Safety with system

Test and Measuring Instruments
for Trees and Timber Structures

(Status 12/2010 - valid until 31.12.2011)



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Basic characteristics and applications about our products are limited in this price list. If you need more detailed information please requests an information package or visit our website at: www.iml.de.

All prices are in Euro and exclude VAT/taxes, duties (custom charges etc.), insurance and shipping costs. The prices are mentioned per item in Euro, if not otherwise stated and are valid until 31.12.2011.

If we do change the prices, you will be informed accordingly. We deliver our products based on our business terms and conditions. IML System GmbH reserves the right to make modifications to the instruments for better technical functioning, capacity and longevity.



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IML-RESI MD300

Light hand drilling instrument for preliminary investigations of trees

New

IML-RESI MD300

Measuring instrument for basic applications

The IML-RESI MD300 is a drilling instrument working purely mechanically that does not record a measurement curve, neither electronically nor mechanically. The user 'feels' the result and can read the penetration depth on the 300 mm scale. Often an abrupt and fast penetration is perceptible when the instrument detects a rot zone.

- Diameter of the drilling needle:
 - needle tip: Ø 3,0 mm
 - needle shaft: Ø 1,5 mm
- Drilling depth is shown in cm at a scale of 1:1
- Drill spindle for external commercial drill: Ø 12 mm
- Available drilling depth: 300 mm

Scope of delivery (standard):

- Drilling attachment IML-RESI MD300 (Drilling depth 300 mm)
- 1x drilling needle (length 387 mm)
- Tools
- Manual instructions



Pic. shows: IML-RESI MD300



Pic. shows: IML-RESI MD300 with optional accessories

Description	Item No.	List price
IML-RESI MD300 without drill (only IML-RESI MD300)	4000150	595,00 €
IML-RESI MD300 with Bosch drill GSR 12V Professional - incl. 1 charger + 2x storage batteries 12V 2,0 AhNiCd	4000151	820,00 €
IML-RESI MD300 with Bosch drill GSR 18V Li-Ion Professional - 1 quick-battery charger + 2x Premium Li-Ion batteries 18V 2,6 Ah	4000152	1.005,00 €

Options / Accessories:

- Drilling needles IML-RESI MD300
- Transport case of aluminum

Description	Item No.	List price
Drilling needles IML-RESI MD300 (10 pieces / pack) - Length 387 mm	3100317	122,00 €
Transport case of aluminum IML-RESI MD300 - incl. foam material & keys	3100311	165,00 €



IML-RESI F-Series

Compact and all-purpose for flexible use for Tree Care & Tree Inspection

IML-RESI F300/F400/F500

Mechanical drilling instrument for basic applications

Scope of delivery (standard version):

- Drilling attachment F300/F400/F500 (depths 300/400/500 mm)
- 1x mounted drilling needle (standard)
- Bosch drill GSR 12V Professional with charger
+ 2 storage batteries 12V 2,0 AhNiCd
- Special adapter for drilling attachment
- Paper magazine
- Shoulder strap
- Tool Kit
- 5x drilling needles (standard) & 400x wax paper strips
- Manual instructions
- Transport case of aluminum



Pic. shows: IML-RESI F-Series (F300)

Description	Item No.	List price
IML-RESI F300 (standard version 'Tree Care') Drilling depth 300 mm	3100800-3S	2.460,00 €
IML-RESI F400 (standard version 'Tree Care') Drilling depth 400 mm	3100800-4S	2.720,00 €
IML-RESI F500 (standard version 'Tree Care') Drilling depth 500 mm	3100800-5S	3.020,00 €

Optional:

- S-Version (drilling depths 280/380/480 mm)
 - reinforced S-version: solid needle support, well suited for hard wood
- SX-Version (drilling depths 280/380/480 mm)
 - Newly developed telescope guidance
 - Integrated precision measuring spindle 1.0 mm
 - Transport case 'PROFI'
 - Bosch drill GSR 18V Li-Ion Professional

Description	Item No.	List price
IML-RESI F300S (reinforced S-version) Drilling depth 280 mm	3100810-3S	2.680,00 €
IML-RESI F400S (reinforced S-version) Drilling depth 380 mm	3100810-4S	2.940,00 €
IML-RESI F500S (reinforced S-version) Drilling depth 480 mm	3100810-5S	3.240,00 €

New

Description	Item No.	List price
IML-RESI F300SX (SX-version) Drilling depth 280 mm	3100810-3SX	3.080,00 €
IML-RESI F400SX (SX-version) Drilling depth 380 mm	3100810-4SX	3.340,00 €
IML-RESI F500SX (SX-version) Drilling depth 480 mm	3100810-5SX	3.640,00 €



IML-RESI F-Series

Compact and all-purpose for Construction Wood

IML-RESI F300/F400/F500

Mechanical drilling instrument for basic applications

Scope of delivery (Construction Wood):

- Drilling attachment F300/F400/F500 (depths 300/400/500 mm)
- 1x mounted drilling needle for 45°-adapter
- Bosch drill GSR 12V Professional with charger
+ 2 storage batteries 12V 2,0 AhNiCd
- Special adapter for drilling attachment
- Paper magazine
- Shoulder strap
- Tool Kit
- 45°-Adapter rotatable
- 5x drilling needles for 45°-adapter & 400x wax paper strips
- Manual instructions
- Transport case of aluminum



Pic. shows: IML-RESI F-Series (F300)

Description	Item No.	List price
IML-RESI F300 (standard version 'Construction Wood') Drilling depth 300 mm	3100900-3S	2.570,00 €
IML-RESI F400 (standard version 'Construction Wood') Drilling depth 400 mm	3100900-4S	2.830,00 €
IML-RESI F500 (standard version 'Construction Wood') Drilling depth 500 mm	3100900-5S	3.130,00 €

Optional:

- S-Version (drilling depths 280/380/480 mm)
 - **reinforced S-version:** solid needle support, well suited for hard wood
- SX-Version (drilling depths 280/380/480 mm)
 - Newly developed telescope guidance
 - Integrated precision measuring spindle 1.0 mm
 - Transport case 'PROFI'
 - Bosch drill GSR 18V Li-Ion Professional

Description	Item No.	List price
IML-RESI F300S (reinforced S-version) Drilling depth 280 mm	3100910-3S	2.790,00 €
IML-RESI F400S (reinforced S-version) Drilling depth 380 mm	3100910-4S	3.050,00 €
IML-RESI F500S (reinforced S-version) Drilling depth 480 mm	3100910-5S	3.350,00 €

New

Description	Item No.	List price
IML-RESI F300SX (SX-version) Drilling depth 280 mm	3100910-3SX	3.190,00 €
IML-RESI F400SX (SX-version) Drilling depth 380 mm	3100910-4SX	3.450,00 €
IML-RESI F500SX (SX-version) Drilling depth 480 mm	3100910-5SX	3.750,00 €



Bluetooth Electronic Unit

IML-RESI F-Series

Bluetooth Electronic Unit

incl. charger & IML Software Center F-Tools (standard software)

The OLED display includes the following dates:

- Measuring curve (simultan recording)
- Advanced speed stage
- Free memory (residual length)
- Battery voltage
- 40-numbered ID number
- 40-numbered remark
- Sensitivity stage (hard/soft wood)
- Date & time



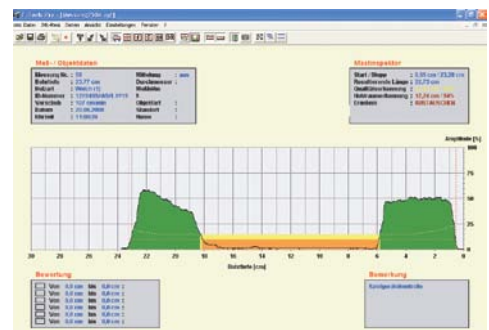
Pic. shows: Bluetooth Electronic Unit

Scope of delivery (standard):

- Bluetooth electronic unit with integrated Lithium-Ion battery
- Standard storage: 20 meters recording length of the measurements
- 100V-240V charger with USB interface
- USB-connection cable
- Bluetooth USB-adapter plug
- IML Software Center F-Tools (standard software)

Functions: Configuration and transmission of the measurements to the PC or Laptop, exporting to the ASCII- or EMF-format, printing-out in general views.

System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows®7.



Pic. shows: Screenshot IML Software Center F-Tools Pro

Description	Item No.	List price
Bluetooth electronic unit incl. charger & IML Software Center F-Tools	4100007	2.040,00 €

Options:

Bluetooth electronic unit IML-RESI F-Series

Description	Item No.	List price
Memory enlargement M40 up to 40 meters recording length of the measurements	4100008	95,00 €
Memory enlargement M80 up to 80 meters recording length of the measurements	4000009	180,00 €
Memory enlargement M160 up to 160 meters recording length of the measurements	4000010	300,00 €
IML Software Center F-Tools PRO (expanded software) - Standard functions - Export, average, print-out - Cavity detector - Annual ring analysis - PC recording mode	3100803	600,00 €
Modul 'Pole Inspector' (incl. software F-Tools PRO) - Automatic analysis for pole inspections	3100806	890,00 €
License for multi user agreement (up to 3 installations) - clearing of the software for another PC or Laptop	3100890	140,00 €



Optional accessories/spare parts

IML-RESI F-Series

USB-connection cable

Serial electronic unit IML-RESI F-Series



Description	Item No.	List price
USB-connection cable - USB Port to RS232 Com-Port (9-poles)	31000302	27,00 €

Serial connection cable

Serial electronic unit IML-RESI F-Series



Description	Item No.	List price
Serial connection cable - RS232 Com-Port (9-poles) to RS232 Com-Port (15-poles)	31000301	22,00 €

110-240V charger with USB interface

Bluetooth electronic unit IML-RESI F-Series



Description	Item No.	List price
110-240V Charger with USB interface - charging with USB interface	4100011	62,00 €

Bluetooth USB adapter plug with USB connection cable

Bluetooth electronic unit IML-RESI F-Series



Description	Item No.	List price
Bluetooth USB adapter plug with USB connection cable - Length approx. 185 cm for Bluetooth electronic unit	4100012	51,00 €

Bluetooth USB adapter plug (separately)

Bluetooth electronic unit IML-RESI F-Series



Description	Item No.	List price
Bluetooth USB adapter plug (separately) - for Bluetooth electronic unit	4100013	34,00 €



Optional accessories

IML-RESI F-Series

Bosch Accumulator drills

Drive unit for IML-RESI F-Series



Description	Item No.	List price
Bosch drill GSR 12V Professional - incl. 1 Standard charger + 2x batteries 12V 2,0 AhNiCd, IML special adapter for drilling attachment, manual instructions	31000110	230,00 €
Bosch drill GSR 18V Li-Ion Professional - incl. 1 Quick-battery charger + 2x Premium Li-Ion batteries 18V 2,6 Ah, IML special adapter for drilling attachment, manual instructions	31000118	420,00 €

Quiver for drilling needles

For safe-keeping for approx. 100 drilling needles



Description	Item No.	List price
IML-RESI F300-Series	3103016	28,00 €
IML-RESI F400-Series	3104016	28,00 €
IML-RESI F500-Series	3105016	28,00 €

Transport case of aluminum

Transport case of aluminum with foam material & keys



Description	Item No.	List price
IML-RESI F150S	3100611	165,00 €
IML-RESI F300-Series	3100311	165,00 €
IML-RESI F400-Series	3100411	165,00 €
IML-RESI F500-Series	3100511	165,00 €

Transport case 'PROFI'

Stable transport case with foam material & keys



Description	Item No.	List price
IML-RESI F300-Series	3100312	250,00 €
IML-RESI F400-Series	3100412	250,00 €
IML-RESI F500-Series	3100512	250,00 €

45°-Adapter rotatable

Especially for the inspection of utility poles, construction wood and playground equipment



Description	Item No.	List price
45°-Adapter rotatable - incl. sleeve, needle extension, assembly instructions Note: Only use drilling needles for 45°-adapter!	3100015	120,00 €



Optional accessories

IML-RESI F-Series

Tool Kit

- for all upgrades and small repair works of the IML-RESI F-series



Description	Item No.	List price
Tool Kit - incl. 1 screw driver 4 mm, 1 component pliers, 1 hexagon pin spanner with t-handle 2,0 and 2,5 mm, 1 hexagon wrench 1,5 mm, hook spanner, 1 pair Nord-Lock discs, 2 clutch discs, 1 clutch bushing, 1 clutch nut, 3x Faceplates 0,5, disassembly magnet, 6 casing screws, 5 safety pins and 1 oil can	3100010	88,00 €

Shoulder strap

for the IML-RESI F-Series



Description	Item No.	List price
Shoulder strap (1 piece)	30009907	15,00 €

Safety pins

Safety pins have to be replaced, if the drilling needle does not rotate anymore and the slide does not move!



Description	Item No.	List price
Safety pins (10 pieces)	3800-059	13,00 €



Batteries & chargers

IML-RESI F-Series

Storage batteries

Bosch drill GBM 12VES-2



Description	Item No.	List price
Storage battery 12V 1,7 AhNiCd	30009921	90,00 €
Storage battery 12V 2,0 AhNiCd	30009922	110,00 €
Storage battery 12V 2,4 AhNiCd	30009923	126,00 €
Storage battery 12V 3,0 AhNiMh	30009930	130,00 €

Strage batteries

Bosch drill GSR 12V Professional



Description	Item No.	List price
Storage battery 12V 1,5 AhNiCd	30009925	90,00 €
Storage battery 12V 2,0 AhNiCd	30009924	100,00 €
Storage battery 12V 2,4 AhNiCd	30009926	110,00 €
Storage battery 14,4V 2,4 AhNiCd	30009927	126,00 €

Premium storage battery

Bosch drill GSR 18V Li-Ion Professional



Description	Item No.	List price
Premium storage battery 18V Li-Ion 2,6 Ah	30009928	145,00 €

PowerPack

IML-RESI F-Series

Description	Item No.	List price
PowerPack 12V/16Ah - for approx. 60 drillings	3100021	415,00 €
PowerPack 12V/25Ah - for approx. 100 drillings	3100024	475,00 €

Connection cable PowerPack

IML-RESI F-Series

Description	Item No.	List price
Connection cable PowerPack - for Bosch drill GBM 12VES-2	3100030	116,00 €
Connection cable PowerPack - for Bosch drill GSR 12V Professional	3100031	116,00 €



Batteries & chargers

IML-RESI F-Series

Standard charger

Batteries 7,2V - 14,4V



Description	Item No.	List price
Standard charger	30009904	132,00 €

Quick-battery charger

Batteries 7,2V - 24V



Description	Item No.	List price
Quick-battery charger	30009911	225,00 €

Car-battery charger 12V/24V

Batteries 4,8V - 14,4V



Description	Item No.	List price
Car-battery charger with connection to cigarette lighter	30009913	150,00 €

110V Universal charger

Batteries 4,8V - 12V (US-plug)



Description	Item No.	List price
110V Universal charger	30009916	165,00 €

18V Li-Ion Quick-battery charger

Batteries 18V Li-Ion



Description	Item No.	List price
18V Li-Ion Quick-battery charger	30009932	165,00 €

Battery conditioning unit E45

Batteries 7,2V - 12V



Description	Item No.	List price
Battery conditioning unit E45	30009950	165,00 €

Testing unit KTT 1250

Batteries 7,2V - 12V



Description	Item No.	List price
Testing unit KTT1250	30009951	132,00 €



Accessories material

IML-RESI F-Series

Drilling needles (standard)

(10 pieces / pack)



Description	Item No.	List price
IML-RESI F300-Series (length: 372 mm)	3100316	112,00 €
IML-RESI F400-Series (length: 482 mm)	3100416	122,00 €
IML-RESI F500-Series (length: 592 mm)	3100516	132,00 €

Drilling needles for 45°-adapter, rotatable

(10 pieces / pack)



Description	Item No.	List price
IML-RESI F150S (length: 237 mm)	3100116	122,00 €
IML-RESI F300-Series/MD300 (length: 387 mm)	3100317	122,00 €
IML-RESI F400-Series (length: 497 mm)	3100417	132,00 €
IML-RESI F500-Series (length: 607 mm)	3100517	143,00 €

Special drilling needles for 45°-adapter, rotatable (new geometry!)

- especially for wooden structures (10 pieces / pack)



Description	Item No.	List price
IML-RESI F300-Series (Ø tip 2,8 mm/length: 387 mm)	3100319	122,00 €
IML-RESI F400-Series (Ø tip 2,8 mm/length: 497 mm)	3100419	132,00 €
IML-RESI F500-Series (Ø tip 2,8 mm/length: 607 mm)	3100519	143,00 €

Wax paper strips (cm-classification)

(400 pieces / pack)



Description	Item No.	List price
IML-RESI F150S	3100115	150,00 €
IML-RESI F300-Series	3100315	150,00 €
IML-RESI F400-Series	3100415	150,00 €
IML-RESI F500-Series	3100515	150,00 €

Wax paper strips (inch-classification)

(400 pieces / pack)



Description	Item No.	List price
IML-RESI F150S	3100118	150,00 €
IML-RESI F300-Series	3100318	150,00 €
IML-RESI F400-Series	3100418	150,00 €
IML-RESI F500-Series	3100518	150,00 €



IML-RESI E-Series

Digital storage of measurement data and printout on the spot

IML-RESI E300/E400

Electronic instrument for demanding application

- For regular controls of trees and timbered houses
- Record of measurement data with a separate electronic unit
- Additional printout of the measurement graph on a paper strip on the spot
- Available drilling depths: 300 mm/400 mm

Scope of delivery:

- Drilling attachment IML-RESI E300/E400 (drilling depths 300/400 mm) with 1 drilling needle (standard), 2 batteries 7,2V 2,0 AhNiCd, electronic unit with printer, standard charger AL60 DV 1419 (with adapter), 3 drilling needles, combination pliers, 2 shoulder straps (instrument and electronic with printer), 5 paper rolls, transport case of aluminum, manual instruction.
- Serial connection cable (electronic unit - PC)
- IML Software Center E-Tools PRO
Standard storage memory: 20 meters recording length of the measurements
Functions: Configuration and transmission of the measurements to the PC or Laptop, exporting to the ASCII- or EMF-format, printing-out in general views.
- Export, average, print-out
- Annual ring analysis
- System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows®7.



Pic. shows: IML-RESI E400

Description	Item No.	List price
IML-RESI E300 - incl. IML Software Center E-Tools PRO	30003000	5.080,00 €
IML-RESI E400 - incl. IML Software Center E-Tools PRO	30004000	5.400,00 €
IML-RESI E400U Technical modification to a water resistant instrument Water resistant modification with extension cable (length 10m) to the electronic unit and compressed air supply	30004000U	7.460,00 €

Options / Accessory packages:

IML-RESI E-Series

Description	Item No.	List price
Accessory package IML-RESI E300 incl. 20 paper rolls, 2 storage batteries 7,2V 2,0 AhNiCd, 1 standard-charger AL60 DV 1419 with adapter, 10 drilling needles (standard)	30003011	505,00 €
Accessory package IML-RESI E400 incl. 20 paper rolls, 2 storage batteries 7,2V 2,0 AhNiCd, 1 standard-charger AL60 DV 1419 with adapter, 10 drilling needles (standard)	30004011	515,00 €
Memory enlargement M40 up to 40 meters recording length of the measurements	3000422	150,00 €
Memory enlargement M90 up to 90 meters recording length of the measurements	3000423	295,00 €



Accessories material

IML-RESI E-Series

Drilling needles (standard)

(10 pieces / pack)



Description	Item No.	List price
IML-RESI E300 (length: 467 mm)	30003900	165,00 €
IML-RESI E400 (length: 549 mm)	30004900	175,00 €
IML-RESI E500 (length: 645 mm)	30005900	185,00 €

Drilling needles for 45°-adapter, rotatable

(10 pieces / pack)



Description	Item No.	List price
IML-RESI E300 (length: 489 mm)	30003905	175,00 €
IML-RESI E400 (length: 571 mm)	30004905	185,00 €
IML-RESI E500 (length: 676 mm)	30005905	195,00 €

Quiver for drilling needles

For safe-keeping for approx. 100 drilling needles



Description	Item No.	List price
IML-RESI E300-Series	3103016	28,00 €
IML-RESI E400-Series	3104016	28,00 €
IML-RESI E500-Series	3105016	28,00 €

Paper rolls

(10 pieces / pack)



Description	Item No.	List price
Paper rolls (10 pieces)	30009900	12,00 €

Ink ribbon

(1 piece)

Description	Item No.	List price
Ink ribbon (1 piece)	30009905	9,50 €



Optional accessories

IML-RESI E-Series

Shoulder strap

for the IML-RESI E-Series



Description	Item No.	List price
Shoulder strap (1 piece)	30009907	15,00 €

USB-connection cable

Serial electronic unit IML-RESI E-Series



Description	Item No.	List price
USB-connection cable - USB Port to RS232 Com-Port (9-poles)	31000302	27,00 €

Serial connection cable

Serial electronic unit IML-RESI E-Series



Description	Item No.	List price
Serial connection cable - Lemo-plug (4-poles)	3020407	37,00 €

45°-Adapter

Especially for the inspection of utility poles, construction wood and playground equipment

Description	Item No.	List price
45°-Adapter - with bearing ball needle support Note: Only use drilling needles for 45°-adapter!	3000409	120,00 €

Batteries & chargers

IML-RESI E-Series

Storage batteries

IML-RESI E-Series



Description	Item No.	List price
Storage battery 7,2V 1,7 AhNiCd	30009909	85,00 €
Storage battery 7,2V 2,0 AhNiCd	30009920	90,00 €
Storage battery 7,2V 3,0 AhNiMh	30009929	105,00 €



Chargers

IML-RESI E-Series

Standard charger

Batteries 7,2V - 14,4V (with adapter)



Description	Item No.	List price
Standard charger	30009904	132,00 €

Quick-battery charger

Batteries 7,2V - 24V (with adapter)



Description	Item No.	List price
Quick-battery charger	30009911	225,00 €

Car-battery charger 12V/24V

Batteries 4,8V - 14,4V (with adapter)



Description	Item No.	List price
Car-battery charger with connection to cigarette lighter	30009913	150,00 €

110V Universal charger

Batteries 4,8V - 12V (US-plug)



Description	Item No.	List price
110V Universal charger	30009916	165,00 €

Battery conditioning unit E45

Batteries 7,2V - 12V



Description	Item No.	List price
Battery conditioning unit E45	30009950	165,00 €

Testing unit KTT 1250

Batteries 7,2V - 12V



Description	Item No.	List price
Testing unit KTT1250	30009951	132,00 €



IML-RESI M-Series

Extremely sturdy and resistant for demanding wood

IML-RESI M300

Mechanical drilling instrument for basic applications

- Mechanical measurement instrument
- Compact and break-proof case
- For use in rough conditions
- Suitable for hard wood
- Record of the measurement graph on a weather-proof wax paper strip
- Available drilling depth: 300 mm



Pic. shows: IML-RESI M300

Scope of delivery:

- Drilling attachment IML-RESI M300 (depth 300 mm) with 1 drilling needle (standard), 2 storage batteries 7,2V 2,0 AhNiCd, standard-charger AL60 DV 1419 (with adapter), 10 drilling needles (standard), 400 wax paper strips, 4 transmission stages (10/20/40/60 cm/min), tool kit (1 component pliers, 1 hexagon key 2.5, 1 hexagon key 4.0), 1 shoulder strap, transport case of aluminum and manual instruction.

Description	Item No.	List price
IML-RESI M300 Drilling depth 300 mm	3000300	5.650,00 €

IML-RESI M300 'LIGHT'

Mechanical drilling instrument for basic applications

Scope of delivery 'LIGHT':

- Drilling attachment IML-RESI M300 LIGHT (depth 300 mm) with 1 drilling needle (standard), 2 storage batteries 7,2V 1,7 AhNiCd, standard-charger AL60 DV 1419 (with adapter), 5 drilling needles (standard), 200 wax paper rolls, 2 transmission stages (20/60 cm/min), tool kit (1 component pliers, 1 hexagon key 2.5, 1 hexagon key 4.0), 1 shoulder strap, transport case of aluminum and manual instruction.



Pic. shows: IML-RESI M300 LIGHT

Description	Item No.	List price
IML-RESI M300 LIGHT Drilling depth 300 mm	3000300L	4.650,00 €



Optional accessories

IML-RESI M-Series

Additional transmission stages

with different advanced feed speed stages

Description	Item No.	List price
Transmission stage 10 cm/min	30003210	175,00 €
Transmission stage 20 cm/min	30003220	175,00 €
Transmission stage 40 cm/min	30003240	175,00 €
Transmission stage 60 cm/min	30003260	175,00 €

Stand

with adjustable telescopes

Description	Item No.	List price
Stand	3000310	235,00 €

Quiver for drilling needles

For safe-keeping for approx. 100 drilling needles



Description	Item No.	List price
IML-RESI M300-Series	3103016	28,00 €
IML-RESI M500-Series	3105016	28,00 €

Transport case of aluminum

Transport case of aluminum with foam material & keys



Description	Item No.	List price
Transport case IML-RESI M300	3090300	350,00 €

45°-Adapter

Especially for the inspection of utility poles, construction wood and playground equipment

Description	Item No.	List price
45°-Adapter - with bearing balls needle support Note: Only use drilling needles for 45°-adapter!	3000409	155,00 €

Shoulder strap

for the IML-RESI M-Series



Description	Item No.	List price
Shpoulder strap (1 piece)	30009907	15,00 €



Accessories material

IML-RESI M-Series

Drilling needles (standard)

(10 pieces / pack)



Description	Item No.	List price
IML-RESI M300 (Ø 1,5 mm/length: 393 mm)	3000316	122,00 €
IML-RESI M300 (Ø 2,0 mm/length: 393 mm)	3000318	143,00 €
IML-RESI M500 (Ø 1,5 mm/length: 655 mm)	3000516	132,00 €
IML-RESI M500 (Ø 2,0 mm/length: 655 mm)	3000518	153,00 €

Drilling needles for 45°-adapter, rotatable

(10 pieces / pack)



Description	Item No.	List price
IML-RESI M300 (length: 415 mm)	3000319	132,00 €

Wax paper strips (cm/inch-classification)

(400 pieces / pack)



Description	Item No.	List price
IML-RESI M300 (cm-classification)	3000315	170,00 €
IML-RESI M500 (cm-classification)	3000515	185,00 €
IML-RESI M300 (inch-classification)	3000325	170,00 €
IML-RESI M500 (inch-classification)	3000525	185,00 €

Batteries & chargers

IML-RESI M-Series

Storage batteries

IML-RESI M-Series



Description	Item No.	List price
Storage battery 7,2V 1,7 AhNiCd	30009909	85,00 €
Storage battery 7,2V 2,0 AhNiCd	30009920	90,00 €
Storage battery 7,2V 3,0 AhNiMh	30009929	105,00 €



Batteries & chargers

IML-RESI M-Series

Standard charger

Batteries 7,2V - 14,4V (with adapter)



Description	Item No.	List price
Standard charger	30009904	132,00 €

Quick-battery charger

Batteries 7,2V - 24V (with adapter)



Description	Item No.	List price
Quick-battery charger	30009911	225,00 €

Car-battery charger 12V/24V

Batteries 4,8V - 14,4V (with adapter)



Description	Item No.	List price
Car-battery charger with connection to cigarette lighter	30009913	150,00 €

110V Universal charger

Batteries 4,8V - 12V (US-plug)



Description	Item No.	List price
110V Universal charger	30009916	165,00 €

Battery conditioning unit E45

Batteries 7,2V - 12V



Description	Item No.	List price
Battery conditioning unit E45	30009950	165,00 €

Testing unit KTT 1250

Batteries 7,2V - 12V



Description	Item No.	List price
Testing unit KTT1250	30009951	132,00 €



IML-RESI B-Series

Precision drilling instrument with high resolution

IML-RESI B300/B400/B1000

Electronic instrument for demanding applications

- Superior detailed measurement results for well-grounded expertise and official analyses
- Specially for experts, universities and research institutions
- Electronic storage of the measurement data as well as printout of the measurement graph on a thermal paper strip on spot
- Resolution: 0.04 mm
- Available drilling depths: 300 mm/400 mm/1000 mm



Pic. shows: IML-RESI B400

Scope of delivery:

- Drilling attachment B300/B400/B1000 (depths 300/400/1000mm) with 1 drilling needle (standard), electronic unit with thermo-printer, block of 10 batteries, 1 standard-charger, 5 drilling needles (standard), combination pliers, 5 thermo-paper rolls, transport case of aluminum for instrument, transport case of aluminum for electronic & thermo-printer, manual instruction, serial connection cable (electronic - PC), quiver for drilling needles.

- Serial connection cable (electronic unit - PC)

- IML Software Center B-Tools PRO

Standard storage memory: 38 meters recording length of the measurements

Functions:

Configuration and transmission of the measurements to the PC or Laptop, exporting to the ASCII- or EMF-format, printing-out in general views.

- Export, average, print-out

- Annual ring analysis

System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows® 7.

Description	Item No.	List price
IML-RESI B300 - incl. Electronic unit with printer & IML Software Center B-Tools PRO	3001280	10.950,00 €
IML-RESI B400 - incl. Electronic unit with printer & IML Software Center B-Tools PRO	3001410	13.050,00 €
IML-RESI B1000 - incl. Electronic unit with printer & IML Software Center B-Tools PRO	3001000	18.900,00 €



Accessories material

IML-RESI B-Series

Drilling needles (standard)

(10 pieces / pack)



Description	Item No.	List price
IML-RESI B300 (length: 429 mm)	3051280	165,00 €
IML-RESI B300 (length: 455 mm - rotatable)	3091280	175,00 €
IML-RESI B400 (length: 549 mm)	3051410	175,00 €
IML-RESI B400 (length: 574 mm - rotatable)	3081410	185,00 €
IML-RESI B1000 (length: 1280 mm)	3051950	215,00 €

Drilling needles for 45°-adapter

(10 pieces / pack)



Description	Item No.	List price
IML-RESI B300 (length: 475 mm)	3071280	175,00 €
IML-RESI B400 (length: 594 mm)	3071410	185,00 €

Thermo paper rolls

(10 pieces / pack)



Description	Item No.	List price
Thermo paper rolls	3000450	51,00 €



Optional accessories

IML-RESI B-Series

45°-adapter

Especially for the inspection of utility poles, construction wood and playground equipment

Description	Item No.	List price
45°-adapter - with ball bearings needle support Note: Only use drilling needles for 45°-adapter!	3020409	155,00 €

USB-connection cable

Serial electronic unit IML-RESI B-Series



Description	Item No.	List price
USB-connection cable - USB Port to RS232 Com-Port (9-poles)	31000302	27,00 €

Serial connection cable

Serial electronic unit IML-RESI B-Series



Description	Item No.	List price
Serial connection cable - Lemo-plug (4-poles)	3020407	37,00 €

Transport case of aluminum (Drilling instrument)

Transport case of aluminum with foam material & keys



Description	Item No.	List price
IML-RESI B300	3090280	350,00 €
IML-RESI B400	3090281	350,00 €
IML-RESI B1000	3090282	550,00 €

Transport case of aluminum (Electronic unit & thermo printer)

Transport case of aluminum with foam material & keys



Description	Item No.	List price
Transport case B-electronic unit & thermo printer	3090800	255,00 €



Batteries & chargers

IML-RESI B-Series

Storage Batteries

complete exchange, incl. assembling

Description	Item No.	List price
Storage battery 'large electronic unit'	3000403	290,00 €
Storage battery 'small electronic unit'	3000402	500,00 €

Standard charger

IML-RESI B-Series



Description	Item No.	List price
Standard charger	3000406	255,00 €

110V-230V PowerPack (17Ah)

External power supply for the IML-RESI B-Series



Description	Item No.	List price
<p>110V-230V PowerPack (17Ah) - includes transport bag, connection cable with Lemo-plug and upgrade of the electronic front plate.</p> <p>Note: During a repeat order the electronic unit of your IML-RESI B-Series measuring instrument is to be send to us for an upgrade! The loading procedure takes place with the standard battery charger!</p>	3020412	1.290,00 €



IML-RESI PD-Series

Uncompromising precision for all kind of applications with individual special options

New

IML-RESI PD-Series

Electronic instrument for demanding applications

- Available drilling depths: 200 mm up to 1.500 mm
- Feed speed 250 cm/ min
- Rugged aluminum grip housing with integrated system guidance
- Electronic is protected in waterproof high quality stainless steel housing
- High resolution 0,02 mm/ 300 mm
- Integrated 45°-adapter for individual application on trees, wood poles and other timber structures
- Integrated tilt sensor
- Durable and smooth running driving screw
- Exchangeable 18V Li-Ion battery
- Replaceable drill bit guide with new designed telescope guidance
- USB 2.0 and Bluetooth interface
- High range of the Bluetooth connection up to 150 m
- Extended options due to modular construction



Pic. shows: IML-RESI PD400

Scope of delivery (standard):

- Instrument PD with 1 mounted drilling needle, 1x quick-battery charger + 2x Premium Li-Ion batteries 18V 2,6 Ah, integrated 45°-adapter, tilt sensor, Micro-USB-connection cable (USB A-plug to micro B-plug), Bluetooth USB-adapter plug, pliers, 5x drilling needles, transport case, manual instructions
- IML Software Center PD-Tools
Standard memory storage: 20 meters recording length of the measurements
Functions: Configuration and transmission of the measurements to the PC or Laptop, exporting to the ASCII- or EMF-format, printing-out in general views.
System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows®7.

Description	Item No.	List price
IML-RESI PD200 (Drilling depth 200 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-2PD	4.780,00 €
IML-RESI PD300 (Drilling depth 300 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-3PD	4.980,00 €
IML-RESI PD400 (Drilling depth 400 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-4PD	5.180,00 €
IML-RESI PD500 (Drilling depth 500 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-5PD	5.380,00 €
IML-RESI PD600 (Drilling depth 600 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-6PD	5.580,00 €
IML-RESI PD750 (Drilling depth 750 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-7PD	5.880,00 €
IML-RESI PD1000 (Drilling depth 1000 mm) - incl. Electronic unit & IML Software Center PD-Tools	3100900-8PD	6.800,00 €



Optional accessories

IML-RESI PD-Series

New

Description	Item No.	List price
Memory enlargement M40 up to 40 meters recording length of the measurements	4100008	95,00 €
Memory enlargement M80 up to 80 meters recording length of the measurements	4000009	180,00 €
Memory enlargement M160 up to 160 meters recording length of the measurements	4000010	300,00 €
IML Software Center PD-Tools PRO (expanded software) - Standard functions - Export, average, print-out - Cavity detector - Annual ring analysis - PC recording mode	3100803	600,00 €
Modul 'Pole Inspector' (incl. software PD-Tools PRO) - Automatic analysis for pole inspections	3100806	890,00 €

Bluetooth-Online printer

for printing-out the measurements at a scale 1:1 on the spot

Description	Item No.	List price
Bluetooth-Online printer	4100014	690,00 €

Shoulder strap (extremely strong)

Shoulder strap with snap hooks and attachment on the instrument

Description	Item No.	List price
Shoulder strap with snap hooks and attachment	30009903	79,00 €

Drilling needle breakeage detection

Automatic check of the drilling needle for wear with individual specifications

Description	Item No.	List price
Drilling needle breakeage detection	4100015	490,00 €

Telescope for exchange

Self-replaceable telescope with complete drill bit guide

Description	Item No.	List price
Telescope for exchange	4100016	390,00 €



Batteries & chargers

IML-RESI PD-Series

New

18V Li-Ion Quick-battery charger

Batteries 18V Li-Ion



Description	Item No.	List price
18V Li-Ion Quick-battery charger	30009932	165,00 €

Premium storage batteries

IML-RESI PD-Series



Description	Item No.	List price
Premium storage battery 18V Li-Ion 2,6 Ah	30009928	145,00 €
Premium storage battery 18V Li-Ion 3,0 Ah	30009933	155,00 €

New

Accessories material

IML-RESI PD-Series

Drilling needles

(10 pieces / pack)



Description	Item No.	List price
IML-RESI PD200 (length: 200 mm)	3100322	150,00 €
IML-RESI PD300 (length: 300 mm)	3100323	150,00 €
IML-RESI PD400 (length: 400 mm)	3100324	160,00 €
IML-RESI PD500 (length: 500 mm)	3100325	160,00 €
IML-RESI PD600 (length: 600 mm)	3100326	170,00 €
IML-RESI PD750 (length: 750 mm)	3100327	180,00 €
IML-RESI PD1000 (length: 1000 mm)	3100328	190,00 €

System-Transport case

System transport case with foam material & keys

Description	Item No.	List price
System case IML-RESI PD200 / PD300 / PD400	3100711	240,00 €
System case IML-RESI PD500 / PD600	3100811	260,00 €
System case IML-RESI PD750	3100911	280,00 €



Fractometer

Measurement of the bending fracture strength and compression strength

Fractometer I

Measurement of the bending fracture strength

- Pocket size instrument to measure the bending fracture strength
- Measuring range 150FE (= Fractometer-units)

Scope of delivery:

- Fractometer I, leather bag and manual instructions



Pic. shows: Fractometer I

Description	Item No.	List price
Fractometer I - inclusive leather bag and manual instructions	4000100	765,00 €

Fractometer II

Measurement of the bending fracture strength and compression strength

- Mechanical measurement instrument to measure the bending fracture strength and the compression strength.

Scope of delivery:

- Fractometer II, cutting knife, tweezers, cutting board, testing pin and manual instruction



Pic. shows: Fractometer II

Description	Item No.	List price
Fractometer II - without transport case	4000200	1.720,00 €
Fractometer II - with transport case of aluminum & foam material	4000202	1.900,00 €



Fractometer

Measurement of the bending fracture strength and compression strength

Fractometer Print (Electronic version)

Measurement of the bending fracture strength and compression strength measurement

- Electronic version to measure the bending fracture strength and the compression strength with a separately electronic unit data evaluation on the PC.

Scope of delivery:

- Measurement unit, electronic unit with thermo-printer, connection cable measurement unit - electronic unit, 5 thermo paper rolls, borders for drilling core, 110V-230V charger ACS 110 Traveller, transport case of aluminum, serial connection cable (electronic - PC), cutting knife, tweezers, cutting board, testing pin and manual instruction.
- IML Software Center P-Tools Pro

Functions: Configuration and transmission of the measurements to the PC or Laptop, exporting to the ASCII- or EMF-format, print-out.

System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows® 7.



Pic. shows: Fractometer Print

Description	Item No.	List price
Fractometer Print - inkl. IML Software Center P-Tools Pro	4000111	3.500,00 €

Complete set: FRACTOMETER II

Bending fracture strength and compression strength measurement

Scope of delivery:

- Fractometer II, cutting knife, tweezers, cutting board, testing pin and manual instruction
- Increment borer 'SUUNTO' 400 mm (3-spirals - 3N) manual instruction
- Maintenance set
6 supporting battens of wood, glue can, ejector for cores, conical grindstone for interior of drill, straight grindstone for exterior of drill, oil can, cleaning brush with extension and 2 spare drill locks for increment borer
- Lengthening piece and withdrawal aid
- IML-Probe rod with extension
Total length: 900 mm
- Transport case of aluminum



Pic. shows: Complete set: Fractometer II with accessories

Description	Item No.	List price
Complete set: Fractometer II - with accessories	4000250	2.250,00 €



Increment borer 'SUUNTO'

Extraction of core samples

Increment borer 'SUUNTO'

Increment borer made of special steel (teflon coating) for age determination and growth regulation on standing trees, for hard wood (2-spirals - 2N) or resinous and soft wood (3-spirals - 3N).

- Diameter core: Ø 5,0 mm
- Drilling depths: 300/400 mm
- Available versions:
 - 2-spirals for hard wood (2N)
 - 3-spirals for soft wood (3N)



2-spirals (2N) - hard wood



3-spirals (3N) - soft wood



Pic. shows: Increment borer 'SUUNTO'

Scope of delivery:

- Including shank, drill, needle and manual instruction

Description	Item No.	List price
Increment borer 'SUUNTO' 300 mm (soft wood) - Drilling depth 300 mm / 3-spirals (3N)	4000120	200,00 €
Increment borer 'SUUNTO' 400 mm (soft wood) - Drilling depth 400 mm / 3-spirals (3N)	4000121	226,00 €
Increment borer 'SUUNTO' 300 mm (hard wood) - Drilling depth 300 mm / 2-spirals (2N)	4000118	200,00 €
Increment borer 'SUUNTO' 400 mm (hard wood) - Drilling depth 400 mm / 2-spirals (2N)	4000119	226,00 €

Spare parts

Increment borer 'SUUNTO'

Spare drill

Length: 300/400 mm / Ø 5,0 mm / 2-spirals (2N) or 3-spirals (3N)



Description	Item No.	List price
Spare drill 300 mm (3-spirals - 3N)	4000123	132,00 €
Spare drill 300 mm (2-spirals - 2N)	4000123-1	132,00 €
Spare drill 400 mm (3-spirals - 3N)	4000124	160,00 €
Spare drill 400 mm (2-spirals - 2N)	4000124-1	160,00 €

Spare needle

Length: 300/400 mm



Description	Item No.	List price
Spare needle 300 mm	4000122	29,00 €
Spare needle 400 mm	4000142	29,00 €



Optional accessories

Increment borer 'SUUNTO'

Lengthening piece withdrawal aid

Extension for reinforcement of the lever force by pivoting the increment borer.



Pic. shows: Lengthening piece withdrawal aid

Description	Item No.	List price
Lengthening piece withdrawal aid - for increment borer 'SUUNTO' 300/400 mm	4000145	145,00 €

Ejector

for ejecting drilling cores out of the increment borer without damaging them



Description	Item No.	List price
Ejector	4000128	14,00 €

Maintenance set (individually)

for increment borer 'SUUNTO' 300/400 mm



Description	Item No.	List price
Maintenance set (individually) - Plastic box small: ejector for cores, conical grindstone for interior of drill, straight grindstone for exterior of drill, oil can, cleaning brush with extension and 2 spare drill locks for increment borer.	4000127	112,00 €

Maintenance set (complete)

including increment borer 'SUUNTO' 400 mm (3-spirals - 3N) & supporting battens



Description	Item No.	List price
Maintenance set (complete) - Plastic box large: increment borer 'SUUNTO' 400 mm (3-spirals - 3N) including shank, drill, needle and manual instruction additionally: 6 supporting battens of wood with glue can - Plastic box small: ejector for cores, conical grindstone for interior of drill, straight grindstone for exterior of drill, oil can, cleaning brush with extension and 2 spare drill locks for increment borer.	4000126	342,00 €



Accessories

for Tree Care Inspection

IML Mobile Cart

Instrument cart for mobile tree, playground equipment and utility pole inspection

Safe & simple transport

Scope of delivery:

- Universal instrument attachment
- Wheels with air tires (standard tires)
- Water resistant note pad DIN A3 with core sample support and scaling (0-40 cm)
- Laptop belt fastener
- Height adjustable up to 115 cm (adjustable range 70-115 cm)



Pic. shows: IML Mobile Cart with optional accessories

Optional:

- Special tires:
Wheels made of PU rubber combination ('flat tire security') with wheel bearing assembly

Description	Item No.	List price
IML Mobile Cart - with standard tires (without accessories)	4000160	380,00 €
IML Mobile Cart - with special tires (without accessories)	4000160-1	465,00 €

IML Penetrometer

Mechanical instrument for measuring the penetration resistance of the soil

Determination of the soil density: Trees on compacted soils are less able to absorb water and minerals. In addition, air exchange and mineralisation are reduced.

Scope of delivery:

- Probe rod made of high-grade-steel (Ø 8,0 mm)
- Drop weight 2,0 kg



Pic. shows: Penetrometer

Description	Item No.	List price
Penetrometer	4000149	270,00 €



Accessories

for Tree Care Inspection

IML Probe rod

Standard length 600 mm / Ø 7,0 mm

- Diameter: Ø 7,0 mm
- Standard length: 600 mm
- Extension 300 mm with thread screw connection
- Variable expandable to max. 1500 mm
- Markings at 100 mm



Pic. shows: IML Probe rod with extension

Description	Item No.	List price
IML Probe rod - Standard length 600 mm / Ø 7,0 mm	4000147	35,00 €
Extension - Length 300 mm / Ø 7,0 mm (with thread screw connection)	4000148	11,00 €

Analysis testing pin

Analysis testing pin for localization decay in trees



Description	Item No.	List price
Analysis testing pin - Length 800 mm / Ø 5,0 mm	4000147	12,00 €



IML Micro Hammer

For a gentle measurement of inner defects

IML Micro Hammer

Sound velocity measurement

Scope of delivery:

- Electronic unit placed in an impact-resistant case with an integrated Lithium-Ion battery
- Hammer (pulse generator)
- Micro sensor (impulse recipient) - length 30 mm/ Ø 18 mm
- 10 High-grade-steel screws (length 60 mm/ Ø 4 mm)
- 4 Magnets with 1 beating point
- Mini screwdriver IXO 3,6V with charger & manual
- USB connection cable
- USB Bluetooth adapter plug
- Battery charger 100V-240V
- Manual instruction
- Aluminum case
- IML Software Center M-Tools Light

Functions:

Transmission of the measurements via USB or Bluetooth. The measuring data will be saved in the ASCII-format.

System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows® 7.



Pic. shows: IML Micro Hammer

Description	Item No.	List price
IML Micro Hammer - including IML Software Center M-Tools Light	41002004	2.680,00 €



Optional accessories/spare parts

IML Micro Hammer

110-240V Charger with USB interface

Electronic unit IML Micro Hammer



Description	Item No.	List price
110-240V Charger with USB interface - charging with USB interface	4100011	62,00 €

Bluetooth USB adapter plug with USB connection cable

Electronic unit IML Micro Hammer



Description	Item No.	List price
Bluetooth USB adapter plug with USB connection cable - Length approx. 185 cm for electronic unit IML Micro Hammer	4100012	51,00 €

Bluetooth USB adapter plug (separately)

Electronic unit IML Micro Hammer



Description	Item No.	List price
Bluetooth USB adapter plug (separately) - for electronic unit IML Micro Hammer	4100013	34,00 €

Set of magnets

IML Micro Hammer



Description	Item No.	List price
Set of magnets - Spare magnet with 2 high-grade-steel screws	4100106	9,20 €

Impact point for exchange

IML Micro Hammer



Description	Item No.	List price
Impact point for exchange	4100107	12,90 €



Optional accessories/spare parts

IML Micro Hammer

High-grade-steel screws

10 pieces/pack



Description	Item No.	List price
High-grade-steel screws - 10 High-grade-steel screws (length 60 mm/ Ø 4 mm)	4100108	18,00 €

Hammer for exchange

Pulse generator IML Micro Hammer



Description	Item No.	List price
Hammer for exchange - Pulse generator IML Micro Hammer	4100109	390,00 €

Sensor for exchange

Acceleration IML Micro Hammer



Description	Item No.	List price
Sensor for exchange - Acceleration (length 30 mm/ Ø 18 mm)	4100110	360,00 €

Mini-Screw driver IXO Li-Ion 3,6V

- IML Micro Hammer



Description	Item No.	List price
Mini-Screw driver IXO Li-Ion 3,6V - incl. 1 standard charger and manual	4100111	79,00 €



Spare parts: Electronic Hammer

Electronic Hammer (Item No.: 41002002)

Hammer for exchange

Pulse generator



Description	Item No.	List price
Hammer for exchange - Electronic Hammer	4100201	765,00 €

Sensor for exchange

Acceleration



Description	Item No.	List price
Sensor for exchange - Electronic Hammer	41002002	555,00 €

BNC connection cable

(1 pair)



Description	Item No.	List price
BNC connection cable - Electronic Hammer (length 3 m)	4100205	57,00 €

Screws for exchange

- for hammer and sensor (1 pair each)



Description	Item No.	List price
Screws for exchange - Length: 8,0 cm	4100101	9,50 €
Screws for exchange - Length: 10,0 cm	4100102	9,50 €

Beating points for exchange (integrated beating system)

- for hammer and sensor (1 piece each)



Description	Item No.	List price
Beating points for sensor - 1 piece	4100103	11,50 €
Beating points for hammer - 1 piece	4100104	11,50 €



IML Measuring Table

Get to the heart of growth: analysis of the annual rings with the IML Measuring Table

IML Measuring Table

Annual ring analysis

Scope of delivery:

- Measuring unit
- Electronic unit
- Connection cable measuring unit - electronic unit
- Serial connection cable
- 110V-240V charger
- 2x Supporting battens of wood for cores
- Manual instruction
- IML Software Center T-Tools Pro



Pic. shows: IML Measuring Table

Functions: Configuration of the electronic unit, transmission of the measurements to the PC or Laptop, annual rings can be marked out and measured directly in the measurement graph, exporting into ASCII or EMF format.

System requirements: 32-Bit operating system Windows®95/98/2000, Windows® NT 4.0, Windows® XP, Windows® VISTA and Windows® 7.

Optional:

- **Leica S6E L2 Zoom Stereomicroscope**
including assembly to the IML Measuring Table

Viewing angle:	38°
Objectives:	0,63x, achromats
Magnifications:	40x max., 6.3-40x Zoom
Max. resolution:	432 Lp/mm
Max. num. aperature:	0144 nA
Object field / interpupillary distance:	36.5 mm / 55 mm

- **Digital Microscope DigiMicro 1.3**
including installation on the IML Measuring Table

Image resolution:	1280 x 960
Dual axis:	27x and 100x microscope lens
Magnification ratio:	up to 10 to 200 times
Focus:	up to 10 mm
Video mode:	max. 30 fsp at 600 Lux
Shutter speed:	1 sec. to 1/1000 sec.

Description	Item No.	List price
IML Measuring Table - including standard scope of delivery (without microscope)	5000200	3.075,00 €
IML Measuring Table - including Leica S6E L2 Zoom Stereomicroscope	5000202	5.950,00 €
IML Measuring Table - including Digital Microscope DigiMicro 1.3	5000203	3.350,00 €



MULTIKAT® - Playground- and Tree Index

Co-operation mit HELM-Software, Ladenburg (Germany)

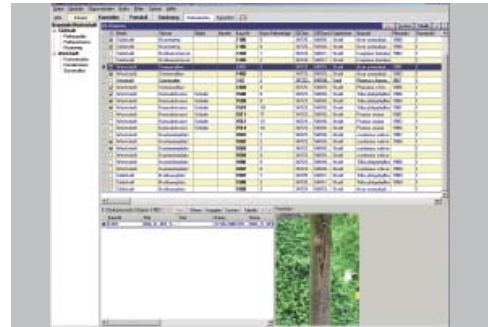
MULTIKAT®

Effective surface and object management

The MultiKat program serves for any kind of administration of objects. One can use the main data and simply control it with ease.

The following modules are offered:

- Tree Care index
- Playground card index
- Integrated GIS
- Control log
- Measure proof
- Mobile Pocket version
- GPS navigation



Pic. shows: MULTIKAT® Software

Mobile PocketPC version

Mobile PocketPC version is mobile data collection software, which will allow one to operate and control the data on a PocketPC. In connection with a GPS receiving system the software will inform the user of the current location and can point out other places with ease.

GPS navigation

Automatic time positioning Mobile PocketPC.



Pic. shows Mobile PocketPC

More information & prices:

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IML Wood models

Prof. Dr. Claus Mattheck

Stupsi's Hazard Beam

Wood model

Wood model to explain the hazard beam on standing trees.

Tensile stresses transverse to the grain direction of the wood are the reason for hazard-beams, where decay may also penetrate.



Pic. shows: Hazard Beam

Description	Item No.	List price
Stupsi's Hazard Beam - Wood model	4000132	37,00 €

Pauli's Height Measurement Tool

Wood model

This sighting instrument is based on the principles of trigonometry and provides an approximate measurement of the tree height, but especially of the H/D ratio (degree of slenderness) on trees, co-dominant stems and also on branches.



Pic. shows: Height Measurement Tool

Description	Item No.	List price
Pauli's Height Measurement Tool - Wood model including manual instruction	4000134	48,00 €

Complete set: Stupsi's Hazard Beam & Pauli's Height Measurement Tool

Wood models: complete set

Description	Item No.	List price
Complete set - including Hazard Beam & Height Measurement Tool	4000138	76,00 €

Technical Literature

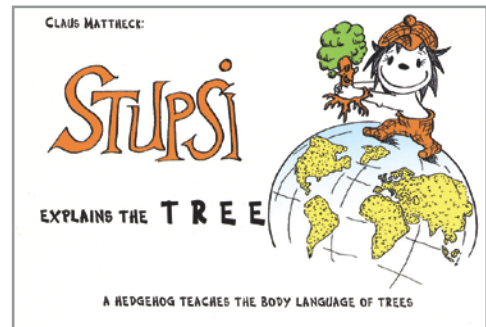
Scientific and maintaining literature on trees

(without 7% VAT)

'Stupsi explains the Tree'

A hedgehog teaches the body language of trees

Author: Claus Mattheck
ISBN: 978-3923704200



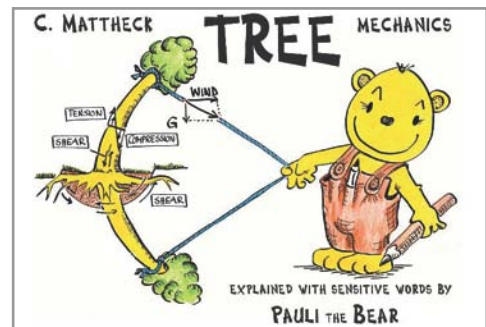
'Stupsi explains the Tree'

Description	Item No.	List price
'Stupsi erklärt den Baum' (german version) Ein Igel lehrt die Körpersprache der Bäume	3000015	18,69 €
'Stupsi explains the Tree' A hedgehog teaches the body language of trees	3000015e	18,69 €

'Pauli the bear: Tree Mechanics'

Explained with sensitive words by Pauli the bear

Author: Claus Mattheck
ISBN: 978-3923704392



'Pauli the bear: Tree Mechanics'

Description	Item No.	List price
'Pauli der Bär: Mechanik am Baum' (german version) Erläutert mit einfühlsamen Worten von Pauli dem Bär	3000019	23,36 €
'Pauli the bear: Tree Mechanics' Explained with sensitive words by Pauli the bear	3000019e	23,36 €



Technical Literature

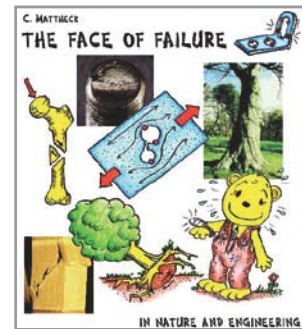
Scientific and maintaining literature on trees

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'The Face of Failure'

in Nature and Engineering

Author: Claus Mattheck
ISBN: 978-3923704415



'The Face of Failure in Nature and Engineering'

Description	Item No.	List price
'Warum alles kaputt geht' (german version) Form und Versagen in Natur und Technik	3000020	32,71 €
'The face of failure in Nature and Engineering'	3000020e	32,71 €

'Secret Design Rules of Nature'

Optimum shapes without computers

Author: Claus Mattheck
ISBN: 978-3923704538



'Secret Design Rules in Nature'

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'Verborgene Gestaltgesetze der Natur' (german version) Optimalformen ohne Computer	3000021	23,36 €
'Secret Design Rules of Nature' Optimum shapes without computers	3000021e	28,04 €



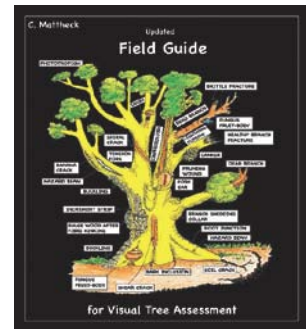
Technical Literature

Scientific and maintaining literature on trees

(without 7% VAT)

'Updated Field Guide for Visual Tree Assessment'

Author: Claus Mattheck
ISBN: 978-3923704583



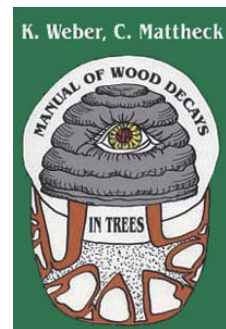
'Updated Field Guide for Visual Tree Assessment'

Description	Item No.	List price
'Aktualisierte Feldanleitung für Baumkontrollen mit VTA' (german version)	3000022	28,04 €
'Updated Field Guide for Visual Tree Assessment'	3000022e	32,71 €

'Manual of Wood Decays in Trees'

Brief description of the most important decay fungi in trees

Authors: Karl-Heinz Weber / Claus Mattheck
ISBN: 978-3923704286



'Manual of Wood Decays in Trees'

Description	Item No.	List price
'Taschenbuch der Holzfäulen im Baum' (german version) Kurzbeschreibung der wichtigsten Schadpilze an Bäumen	3000018	23,36 €
'Manual of Wood Decay in Trees' Brief description of the most important decay fungi on trees	3000018e	42,06 €



Technical Literature

Scientific and maintaining literature on trees

(without 7% VAT)

'Holzersetzende Pilze in Bäumen'

Strategien der Holzersetzung

Autoren: Francis Schwarze / Julia Engels / Claus Mattheck
ISBN: 978-3793091943



'Holzersetzende Pilze in Bäumen'

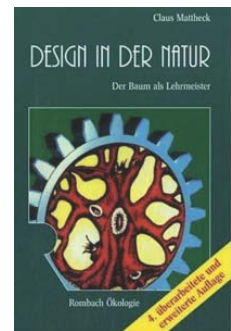
Description	Item No.	List price
'Holzersetzende Pilze in Bäumen' (german version) Strategien der Holzersetzung	3000017	47,66 €

'Design in der Natur'

Der Baum als Lehrmeister

(4. Neuauflage)

Author: Claus Mattheck
ISBN: 978-3793094708



'Design in der Natur'

Description	Item No.	List price
'Design in der Natur' (german version) Der Baum als Lehrmeister (4. Neuauflage)	3000002	44,86 €

New

'Denkwerkzeuge nach der Natur'

Alles ganz einfach ohne Formeln!

Author: Claus Mattheck
ISBN: 978-3-923704-73-6



'Denkwerkzeuge nach der Natur'

Description	Item No.	List price
'Denkwerkzeuge nach der Natur' (german version) Alles ganz einfach ohne Formeln!	3000024	32,71 €



Technical Literature

Scientific and maintaining literature on trees

(without 7% VAT)

'Bewegungsspuren - eine mechanische Deutung der Körpersprache'

mit Pauli dem Bär

Author: Claus Mattheck
ISBN: 3923704682



'Bewegungsspuren - eine mechanische Deutung der Körpersprache'

Description	Item No.	List price
'Bewegungsspuren - eine mechanische Deutung der Körpersprache' mit Pauli dem Bär (german version)	3000023	26,17 €

General conditions of payment and delivery

- IML-Instrumenta Mechanik Labor System GmbH -

I. General

1. The scope of supplies and services shall be governed by mutual declarations in writing or based on contractual obligations such as sales representative agreements. Where an agreement has been entered into without such mutual declarations, either the written confirmation by the supplier or performer (in the following: the supplier) shall govern, or where such order confirmation has not been issued, the written order of the purchaser.
2. Products, such as IML-RESI etc., will be supplied to the extent required by law or expressly agreed upon.
3. All supplies and services shall be governed by the German Safety Standards (TÜV) in so far as safety of supplies and services are concerned. Deviations are permissible if the same safety standard will be achieved by different means.
4. Supplier reserves all titles and property rights and rights originating from copyright on cost estimates, drawings and other documents; such may not be disclosed to third parties without the prior written consent of supplier. All drawings and other documents pertaining to quotations shall immediately be returned upon request if the order is not placed with the bidder. Foregoing Sentences 1 and 2 shall apply accordingly to documents of purchaser. They may, however, be made available to those third parties which perform services or supplies for the supplier in cases where this is permitted.
5. Additional agreements shall not be binding unless confirmed in writing.

II. Prices

Where supply offered does not include demonstrations and technical or other explanations, prices quoted are ex works, excluding packaging; insurance from house to house to be covered by purchaser.

III. Retention of title

Title to all goods is retained by supplier until each and every claim of supplier against purchaser originating in the business relations has been duly satisfied. Prior to this event, goods may not be pledged or given as security and may only be re-sold by re-sellers in the normal course of business, against payment from his customer. Any costs incurred in connection with interventions following this section shall be borne by purchaser. This includes also import duties, fees etc., which might be imposed by governmental regulations in the respective countries. If the value of the sureties accruing to the supplier in performance of sentence 1 exceeds the value of all privileged claims by more than 25%, supplier shall upon request release a respective part of the sureties.

IV. Conditions of payment

1. Payment shall be made free paying office of supplier in a way previously to be agreed upon by both parties.
2. Purchaser may set off only such claims as are undisputed or finally determined.

V. Period for supply of deliveries or services

1. The period for supply of deliveries and services shall be governed by the mutual written declarations. Article I Sub-Section 1 Sentence 2 shall apply accordingly. Timely supply is conditioned upon timely receipt of all documents to be furnished by purchaser, necessary licenses and releases, timely clarification and approval of plans and observance of the terms of payment agreed upon and all other obligations. If these conditions are not timely fulfilled, the period for supply shall be appropriately extended.
2. Above period shall be deemed to have been met, where supply does not include demonstration or explanations, if the goods, ready for operation, have been delivered to the carrier or picked up within the agreed period. If delivery is delayed for reasons for which the purchaser is responsible, supply shall be deemed timely, if notice that goods are ready for shipment has been given within the agreed period.
3. If the period for supply of deliveries or services can be proven to have been exceeded because of mobilization, war, riot, strike, insurrection, lock-out, or in the event of unforeseeable circumstances, such period shall be adequately extended. If such period is exceeded for reasons other than those stated in Sub-Section 3 Sentence 1, the purchaser - in so far as he can establish credibly that he has suffered damage owing to the delay - may claim liquidated damages of 0.5% for every completed week's delay up to an overall total of 5% of the value of the part of supplies or services which could not be taken into useful operation owing to individual components thereof not having been furnished on time. Purchaser shall likewise be entitled to liquidated damages in case of circumstances as described under Sub-Section 3 Sentence 1 arising only after period for supply of deliveries or services originally agreed upon has been culpably exceeded by supplier. All further damages, e.g. consequential damages, loss of profit etc. for delay and other circumstances as may be claimed by purchaser, exceeding the margin of 5% as ruled under Sentence 2 are expressly excluded, even if an additional period of time as may have been granted to supplier has expired. This does not apply where, in cases of intent or gross negligence, supplier's liability is enforced by law. The right of purchaser to cancel the contract after an additional period of time granted to the supplier has ineffectively expired shall remain unaffected.
4. If shipment or delivery is delayed at purchaser's request, storage costs to the sum of 0.5% of the invoiced amount may be charged for every month commenced, beginning one month after notice has been given that goods are ready for shipment. Such charge shall be limited to an overall total of 5% unless costs incurred can be proven to be higher.

VI. Transfer of risk

Risk shall pass to purchaser, even if freight delivery paid has been agreed upon:

- a) Where supply offered does not include demonstration or explanations, whenever goods ready for operation have been delivered to carrier or picked up. Every care shall be taken in packing. Shipment shall be carried out to the best of supplier's judgment. At the request and expense of purchaser, goods shipped will be insured by supplier against breakage, damages in transit or fire.
- b) If shipment, delivery is delayed at the request of purchaser or for reasons within purchaser's responsibility, for such period of delay. Supplier, however, undertakes to effect at purchaser's expense such insurances as requested by purchaser.

VII. Acceptance

1. Goods delivered shall be accepted by purchaser even if they show minor defects or are incomplete to a negligible degree.

VIII. Liability for faults

1. The supplier shall be liable for faults including failure to achieve assured characteristics as under Article I. The supplier shall at his discretion repair or replace such parts or perform anew such services free of charge as have become of no use or markedly impaired in usefulness within six months after transfer of risk - regardless of actual operating time - owing to circumstances prior to transfer of risk, particularly such as faulty designs, materials or workmanship. Supplier must be informed in writing of such faults immediately after they have been noticed.
2. Purchaser has to comply with his contractual obligations in particular with the agreed conditions of payment. If complaint in respect to a fault is made, purchaser may withhold payment to an extent which is fair and reasonable in respect to the faults occurred. However, if the contract is entered into in pursuance of purchaser's line of business, payments may only be withheld under the condition that the complaint in respect to a fault is justified beyond any reasonable doubt.
3. Purchaser shall grant the supplier such adequate time and opportunity as supplier deems reasonable to remedy the faults. In case of refusal, supplier's liability shall be waived.
4. If supplier lets an adequate extension of time as set by purchaser expire without remedying the fault, purchaser shall have the right to cancel the contract (cancellation) or claim a reduction of price (reduction).
5. Right of purchaser to lodge claims owing to faults shall in any case be barred after a period of six months has expired beginning from the date of above complaint. If no agreement is reached within this period of time, supplier and purchaser may agree to an extension of said period.
6. Liability for faults does not cover natural wear and tear or damage arising after transfer of risk owing to faulty or negligent handling, excessive strain, unsuitable materials for operation, deficient civil engineering work, unsuitable soil conditions, and such chemical, electro-chemical or electrical influences as were not assumed at the time of the contract.
7. All liability for consequences of any inexpert alterations or repairs carried out by purchaser or a third party shall be waived.
8. Period of liability for faults in repairs shall be three months, for replacement or renewals six months. However, above period shall run at least until expiry of warranty period as originally provided for in respect of the contractual goods. If parts of supplies cannot be put into efficient operation owing to an interruption of work caused by repairs, replacements or corrected services, period of liability for faults for such parts shall be extended by same period of interruption.
9. The provisions concerning periods of liability for faults under Sub-Sections 1, 5, and 8 shall not apply where longer periods are enforced by law.
10. Supplier or supplier's agents shall in no event be liable to purchaser for any further claims, particularly claims for damages not affecting the goods themselves. This shall not apply where liability is enforced by law in cases of intent, gross negligence or failure in assured characteristics.
11. Sub-Sections 1-10 shall apply accordingly to claims of purchaser concerning repair, replacement or damages originating from proposals or advice given within the scope of the contract or originating from the breach of secondary contractual obligations.

IX. Impossibility of performance; adjustment of contract

1. If the supplier or purchaser are unable to perform their supplies or services, general legal principles shall apply, subject to the following conditions: If supplier may be held responsible for inability, purchaser is entitled to claim damages. However, liability of supplier shall be limited to 10% of the value of that part of services or supplies which, owing to the inability, cannot be put into useful operation. Damages of purchaser exceeding that margin of 10 % are excluded. This does not apply where liability is enforced by law in cases of intent or gross negligence. The right of purchaser to cancel the contract shall remain unaffected.
2. In so far as unforeseen events as described under Article V Sub-Section 3 Sentence 1, materially affect the economic consequences or substance of the supplies or services or have a major effect on supplier's business, the contract shall be adjusted reasonably within good faith. If this is not justifiable from an economic point of view, supplier may cancel the contract. If he wishes to exercise this right of cancellation, he shall inform purchaser of such intention immediately after recognizing the significance of the event, this shall apply even where in the first instance an extension of delivery period has been agreed upon with the purchaser.

X. Further claims for damages

Claims for damages on the part of the purchaser arising from breach of secondary contractual obligations, obligations during the stage of contractual negotiations and talks are excluded. This does not apply where liability is enforced by law in cases of intent or gross negligence by supplier, his legal representative or agents. This limitation shall apply accordingly in respect of the purchaser.

XI. Force majeure

Neither the supplier nor the purchaser shall be liable to the other party for non-performance or delay in performance of any of its obligations under these general conditions owing to causes reasonably beyond their control, including fire, flood, strikes, labor troubles or industrial disturbances, unavoidable accidents, governmental regulations, riots and insurrections. Upon the occurrence of such force majeure condition, the affected party shall immediately notify the other party with as much details as possible and shall promptly inform the other party of any further developments. Immediately after the cause is removed, the affected party shall perform such obligations with all due speed unless the existing agreement is previously terminated.

XII. Arbitration

1. Any dispute arising in connection within an existing agreement between the supplier and the purchaser or any difference of opinion between the parties hereto concerning their rights and obligations under an existing agreement shall be settled by amicable discussions by the parties.
2. If, however, such endeavor fails, disputes shall be finally resolved by arbitration. Such arbitration, which will be binding for the supplier as well as the purchaser, shall be conducted by the International Chamber of Commerce in Paris in accordance with the arbitration rules of the Chamber above mentioned.

XIII. Arbitration

If any provision of this contract is void, the remaining part of the contract shall remain unaffected. This shall not apply if adherence to the contract should mean an unreason-



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