



WOODPECKER

Wood Test Hammer

The need to develop a non-destructive technique which allows understanding of the state of preservation of a wooden element and its residual mechanical properties (parameters of resistance and deformability) has given rise to the need to develop a useful and manageable tool that can provide reliable information regarding material quality.

The WoodPecker is an accessory for a N type concrete test hammer, to which a tempered steel needle (stiffness 60 HRC) is added. The needle is 2.5 mm in diameter and 50 mm in length, with a truncated cone tip and 35° angle of inclination at the end. The test hammer is compact and resistant, but also easy to handle. Its weight (about 1100 gr) allows immediate use on the materials already on site.

The WoodPecker is a product entirely made in Italy.

■ OPERATING PRINCIPLE

The needle penetrates the wooden body using the strikes generated with constant energy. It is possible to correlate the sinking of the needle to mechanical properties and its preservation. The extent of penetration is measured by a specific detection system, called analogical gauge.

Once measurement has been completed, the penetration rod can be easily recovered from the wooden body and the faint trail left by its imprint can be easily sealable.

The calibration of the test hammer can be verified with the calibration anvil.



■ FIELDS OF APPLICATION *

Knowing the state of conservation of wooden elements is extremely important when performing surveys for restoration or structural rehabilitation of historical buildings and monuments.

During these activities, not even alternating extraction of the micro cores of an element (even of limited lengths) is possible, due to the need for artistic preservation and to avoid damaging the cross section".

Knowing the preservation of the entire section is a necessary condition, since in almost all cases the aggressive effects of micro-organisms (mushrooms, xylophagous, moulds, etc.) that attack on the essence of wood are not detectable with evident signs.

* For the proper use of the equipment, see www.drcitalia.net - Download Area section WebHelp Area.

TECHNICAL SPECIFICATIONS

MECHANICAL

EXTERNAL PART	Aluminium 6060 - 11S
INTERNAL ORGANS IMPACT	Anodizing oxidation OX
HEAT TREATMENT	NIT-OX

PHYSICAL

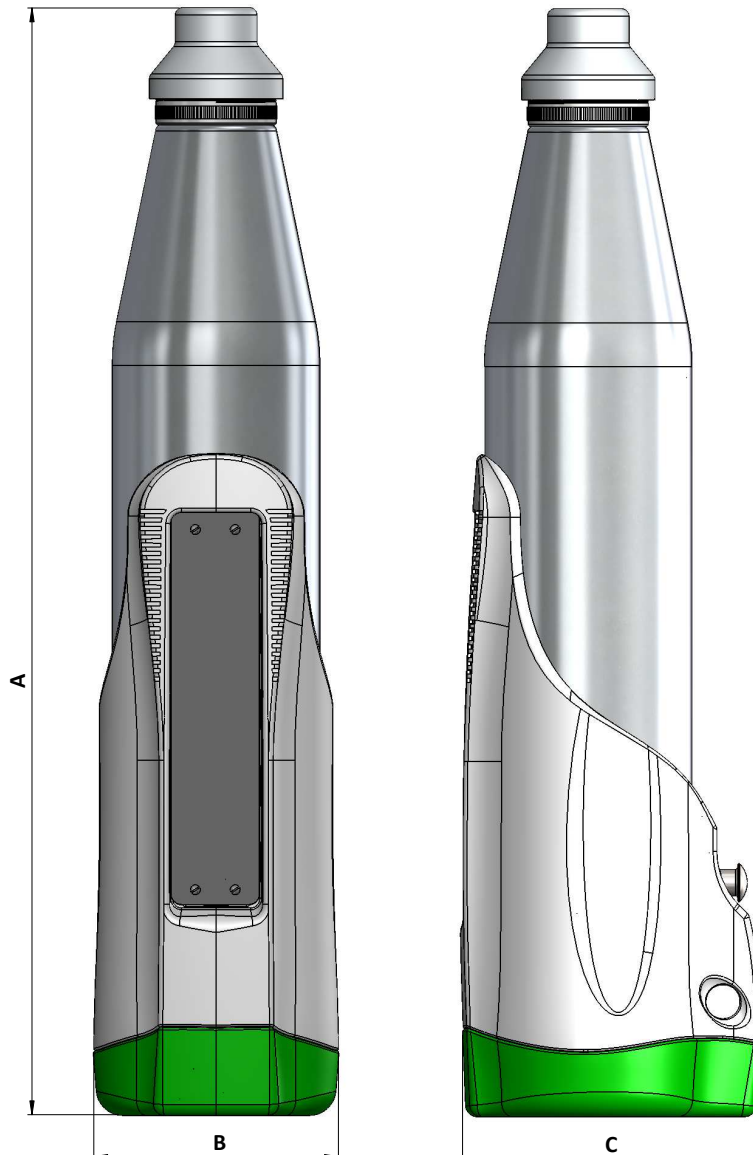
DIMENSIONS	(A)300 x (B)70 x (C)70 mm
WEIGHT	1,3 Kg

MECHANICAL

MOVEMENT ROD	Steel INOX 303
HANDLE	Glass-filled nylon
NEEDLE	Hardened steel

PERFORMANCE

IMPACT ENERGY	2,207 Nm
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The kit includes:

- Test hammer WoodPecker
- Analogical gauge L 50 mm 0,01
- Nails 50 pcs
- Pencil
- Paper note
- Operation manual
- Calibration report
- Rigid case IP67

PACKAGE

DIMENSIONS	340 x 280 x 180 mm
WEIGHT	4,0 Kg

Warranty & Maintenance

24
months

DRC guarantees maintenance service at its center or at authorized centers



DRC
Diagnostic Research Company
Non Destructive Testing

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