ORMITY
COMPLIANCE TEST EQUIPMENT

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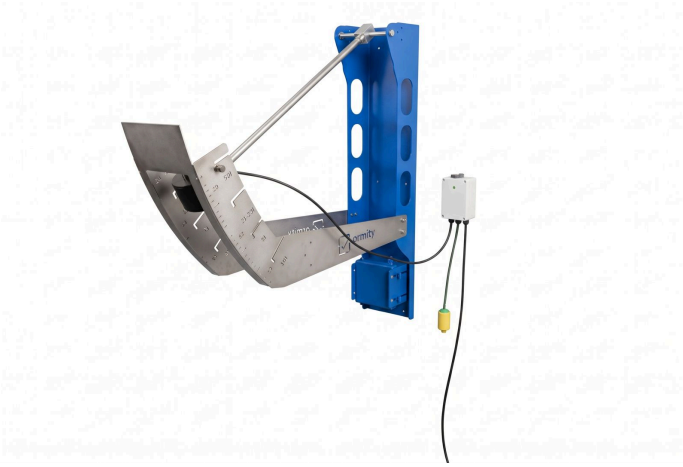
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IEC 60068-2-75:2014 · TEST EHA · IEC 62262

Wall-mounted pendulum hammer, 2 J to 50 J

Impact test apparatus for enclosures and equipment: stainless goniometers, electromagnetic release by wireless remote control and a specimen support locked to the wall.



ORTYPH068-50 Standard version

ORTYPH068-50XL
Thick-specimen version (pivot +100 mm kit)

1 Overview

The ORMITY wall-mounted pendulum hammer applies the impacts of IEC 60068-2-75 Test Eha from 2 J to 50 J. The striking element falls from a set height on a 1 000 mm pendulum and strikes the specimen in the vertical plane through the pivot axis. It covers impact codes IK07 to IK10 of IEC 62262 and the 50 J severity.

- One-piece bent steel frame, epoxy painted, fixed to the wall with 6 anchors
- Electromagnetic release by wireless remote control or pendant push-button
- Nothing above the specimen in the pendulum path: no shear point if the specimen breaks
- Two stainless steel goniometers, laser-cut scale in 1° steps, one launch seat per energy
- Specimen support locked to the wall-backed frame for the rigidity of §4.2.2
- Optional kit moves the pivot 100 mm forward for thick specimens

2 Technical data

Standards	IEC 60068-2-75:2014 (Test Eha, pendulum hammer) · IEC 62262 (IK codes)
Impact energies	2 · 5 · 10 · 20 · 50 J
Pivot to measuring point	1 000 mm
Drop heights	200 · 300 · 400 · 500 mm
Pendulum arm	Carbon-fibre tube Ø25 mm; arm mass ≤ 0,2 × combined mass
Pivot	Stainless shaft Ø12 h6 on two shielded ball bearings
Striking elements	Steel Fe 490-2, hardness HRE 80–85, black oxide; masses ±2 %
Goniometers	Stainless steel 304, 4,76 mm; scale 40°–68° in 1° steps
Release	Electromagnet 12 VDC; wireless remote control and pendant push-button
Frame	Steel, one bent U part, epoxy painted
Wall fixing	6 × M10 anchors, concrete or solid masonry
Specimen support	8 mm plywood 175 × 175 mm (155 mm visible) on a steel block; depth adjustable and locked
Power supply	100–240 VAC, 50/60 Hz; wall control box with 12 VDC supply
Installed size	H 1 195 × W 310 × D 1 200 mm
Mass	≈ 37 kg + striking elements 22 kg

3 Striking elements (IEC 60068-2-75, Table 1)

Energy	IK code	Mass (kg)	Ø D (mm)	R (mm)	Height h (mm)	Release angle
2 J	IK07	0,50	35	25	400	53,1°
5 J	IK08	1,70	60	25	300	45,6°
10 J	IK09	5,00	80	50	200	36,9°
20 J	IK10	5,00	100	50	400	53,1°
50 J	—	10,00	125	50	500	60,0°

Combined masses (striking element and fixing). Each element is delivered with its measured mass and hardness in the factory calibration report.

4 Maximum specimen thickness

Energy	Standard	With XL kit
2 J	90 mm	190 mm
5 J	80 mm	180 mm
10 J	55 mm	155 mm
20 J	75 mm	175 mm
50 J	55 mm	155 mm

Thickness that keeps the point of impact in the vertical plane through the pivot axis, specimen mounted on the plywood. Larger specimens can be tested against the wall-backed frame on an 8 mm polyamide sheet (§4.2.2).

> **XL kit (ORTYPH068-50XL):** bearing plates and goniometer adapters move the pivot 100 mm forward; includes a long specimen support, a wide cover, shaft and release bar.

5 Release system

- The striking element is held by an electromagnet on a stainless bar seated in the slot of the chosen energy.
- Release by wireless remote control or pendant push-button; the operator stays outside the pendulum path.
- Wall control box with 12 VDC supply and 3 PG12 cable glands: electromagnet, push-button and mains.
- The pendulum falls under gravity only (§5.1.1).

6 Installation

- Concrete or solid masonry wall; the frame bears directly on the wall.
- Recommended height of the measuring point: 900–1 100 mm above the floor.
- Clear zone in front of the wall: 1,3 m deep × 0,8 m wide.
- Rigidity check at commissioning: dial indicator on the plywood face, ≤ 0,1 mm at the test energy (§4.2.2).

7 Scope of supply

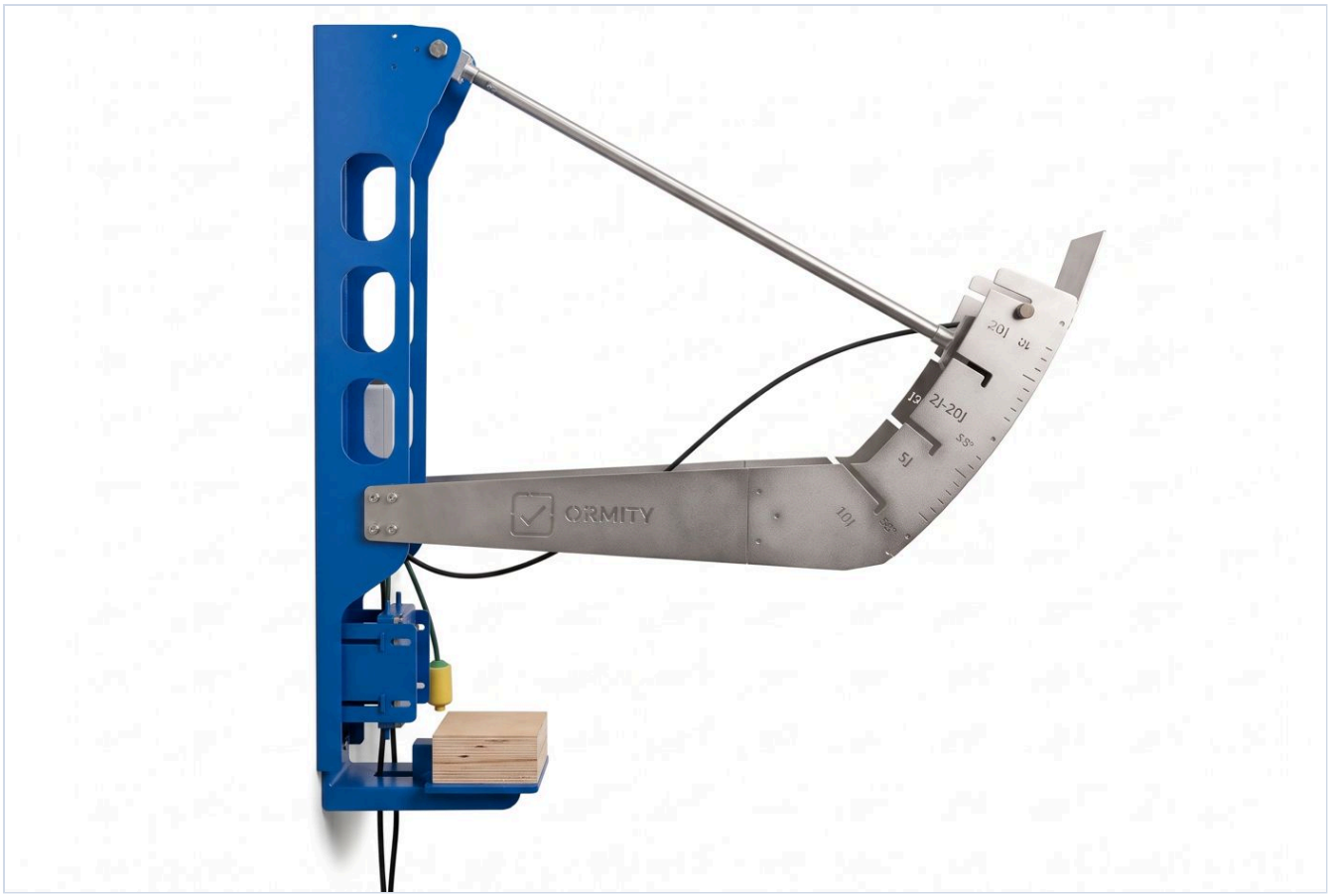
- Frame with bearings, shaft and carbon-fibre arm
- Two goniometers with cover
- Specimen support, steel block, clamps and plywood
- 5 steel striking elements, 2 J to 50 J
- Release bar with electromagnets (2 J and 5–50 J)
- Control box, wireless remote control, push-button and cables
- Fixing hardware and wall anchors
- Factory calibration report

8 Packing and shipping

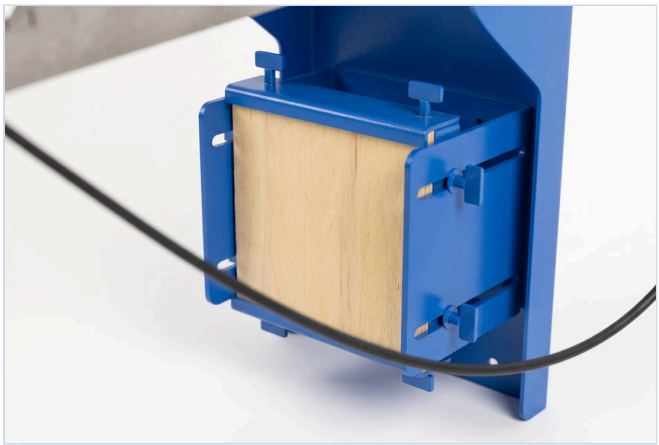
Shipped disassembled in a plywood crate on skids, parts held in foam. Crate 1 324 × 864 × 401 mm; gross mass ≈ 100 kg.



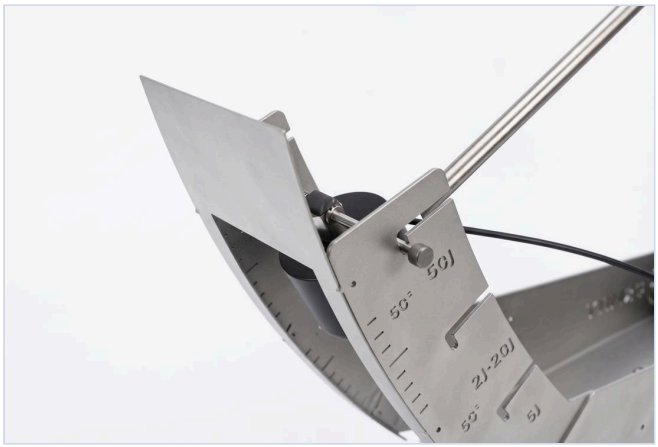
9 Photos



Side view



Specimen support locked by four wing screws



Launch seats and laser-cut scale

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