



TESTED FOR SUCCESS



Heina Ltd. is a Finnish company founded in 1988. We are proud to provide our customers with innovative, CE approved testing devices, good personal service and reliable partnership.

Our main products, Tumble Tester II, Drop Tester DT2000s, Drop Tester DT3000s, Drop Tester DT2000 "n" series and Abrasion Tumbler 640/3i are used by tens of electronic manufacturers and medical industry all around the world.

PLEASE CONTACT US FOR MORE DETAILS.

WE ALSO PROVIDE YOU WITH USER TRAINING.

Visit our website for more information about our products and services:

HEINA.NET



CONTACT US

Scan QR code below and get our contact information in vCard format to your phone.

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TUMBLE TESTER II

with optional high-speed camera



CLASS OF ITS OWN

Tumble Tester II is used to test the breakage of various small products up to 1 kilogram.



DROP HEIGHT
500 and 1 000 mm



DROP RATE
5–15 drops per minute
(adjustable in 0.1 steps)



TEST CAPACITY
up to 1 kg (upgradable)

The test product is placed in a Tumble Tester II barrel. When the desired number of drops and inspection intervals are selected, the machine is started. The machine drops the product to the base of the barrel in random positions (free fall).

The rotational speed of the machine is selected so that the object falls in the middle of the base. The machine can be modified according to the customer's wishes.

MOTION ANALYSIS

Optional Phantom high-speed camera allows users to really see what actually happens during the impact. With TEMA Heina motion analysis software, displacements, bounce, vibration, and other anomalies can be measured from the images.

TUMBLE TESTER II with optional high-speed camera

Width	1 160 mm
Height	1 600 mm
Depth	1 500 mm
Weight	200 kg
Engine power	0.18 kW
Electrical supply	100–240 V, 50–60 Hz
BNC output	Trigger for camera
CE marking	Yes

RESTRICTIONS

Tumble Tester II must not be used to test explosive objects or such objects which at breaking release hazardous gases that may cause a health risk to the user or the surroundings.



The machine can be used to perform standardized tests in accordance with IEC 60068-2-31 IEC 60312-1 IEC 61558-1

The tester complies with directives 2006/42/EY, 2014/35/EU and 2014/30/EU, and standard SFS EN ISO 12100 has been applied.



Features for high-quality drop testing

- Steady aluminium frame, reliable construction
- Safety cage, roof, and electronic door lock
- Easy to operate
- Programmable drop counter
- Adjustable tumble rate
- Counter for next inspection
- Easy access to product for inspection
- Service free machine
- Tester can be divided into three separate parts for easy transportation
- Memory slots for preset settings

OPTIONAL FEATURES

- Extended drop height up to 2 000 mm
- Larger EW and EWW models for bigger and/or heavier products (eg speakers), up to 5 kg

PHANTOM HIGH-SPEED CAMERA (OPTIONAL)

- 10 m Ethernet cable
- BNC cable
- Power source
- Software
- F or C – mount adapter
- Zeiss 50mm f/1.4 optic
- Zeiss 100mm f/2.0 optic
- Stand for camera
- Manfrotto head for camera
- Pelican protective cases

LED LIGHTS

- 2-4 pcs / 60 W (12° opening angle)
- Flicker-free lights
- IK09 tested (LED frame & panel)
- Adjustable mounting
- Separate switch for lights