# Automatic Marshall Compactor

LT-AS0045 / LT-AS0046 / LT-AS0047 | Automatic impact compaction

Digital blow count • Adjustable programme • Automatic stop



**4550 ± 20 g**

LISTED HAMMER MASS

**460 ± 3 mm**

LISTED DROP HEIGHT

Select the model and impact arrangement for the specimen preparation method

# Photographs and Instrument Components

Digital counter, enclosed mechanism, mould position and supporting base

The Automatic Marshall Compactor prepares bituminous specimens using controlled blows. Set the blow count, then the mechanism raises and releases the hammer. Digital counting stops the cycle when the target number of blows is reached.

**DIGITAL CONTROL PANEL**

Set the blow programme on the panel and monitor applied impacts with the digital counter.

**ENCLOSED IMPACT MECHANISM**

The housing surrounds the automatic hammer lifting and dropping arrangement.



**MOULD AND SPECIMEN POSITION**

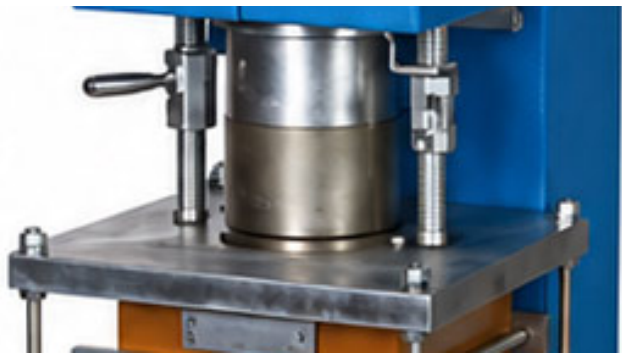
The Marshall specimen is compacted in the mould beneath the impact line.

**SUPPORTING BASE**

The lower assembly supports the mould arrangement and main machine body.



**Digital counter and start / stop controls**

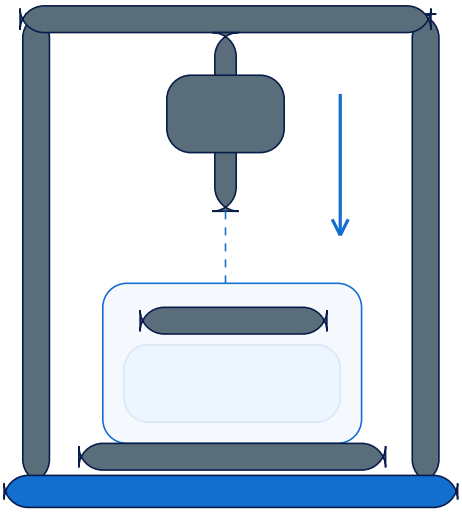


**Marshall mould and specimen support area**

# Marshall Specimens by Controlled Impact

Prepare mould • Select blow count • Start cycle • Complete specimen

**LIFTING + FREE FALL + SPECIMEN COMPACTION**



**HAMMER MASS: 4550 ± 20 g**

**DROP HEIGHT: 460 ± 3 mm**

**Programme the blow count for the selected method**

**The system stops automatically at cycle completion**

REPRESENTATIVE IMPACT COMPACTION DIAGRAM • NOT TO SCALE

### Position the Specimen

Place the mixture in a suitable mould. Prepare the mould and compaction arrangement for the method.

### Set the Programme

Enter the required blow count. Check preparation conditions and model compatibility.

### Complete the Cycle

Apply automatic impacts. The cycle stops when the counter reaches its target.

Automatic lifting and free fall apply successive impacts to the specimen. A counted blow programme supports consistent preparation conditions between specimens. Match the hammer arrangement and blow programme to the selected model and method.

## Repeatable Specimen Preparation

Controlled hammer mass and drop height support consistent application of impact energy. The digital counter tracks the preset blow count throughout the cycle.

Record mixture preparation temperature, specimen quantity, applied blows and specimen identification. Prepared specimens can subsequently be used for density, air voids, stability and flow evaluations.

## EN, ASTM and Cabinet Options

LT-AS0045 is the EN version, LT-AS0046 the ASTM version and LT-AS0047 the soundproof-cabinet model. Select the configuration for the intended testing procedure.

The soundproof cabinet option helps reduce operating noise. Evaluate model selection together with mould and hammer configuration. Dimensions, weight and power supply in the technical table apply to LT-AS0045.

LT-AS0045 / LT-AS0046 / LT-AS0047

# Technical Specifications and Model Options

LT-AS0045 reference technical data and series model options

| Parameter | Description / Specification |
|---|---|
| **EN Model** | LT-AS0045 |
| **ASTM Model** | LT-AS0046 |
| **Soundproof-Cabinet Model** | LT-AS0047 |
| **Listed Hammer Mass** | 4550 ± 20 g |
| **Listed Drop Height** | 460 ± 3 mm |
| **Blow Control** | Adjustable digital blow counter |
| **Cycle Completion** | Automatic stop at the target blow count |
| **LT-AS0045 External Dimensions** | 55 × 55 × 195 cm |
| **Approximate LT-AS0045 Weight** | 224 kg |
| **LT-AS0045 Power Supply** | 220 V • 50-60 Hz • Single phase |

### Select Model, Mould and Blow Programme Together

Choose the hammer arrangement for the preparation method. Match the programme, mixture conditions and applied blows to the specimen record.

## Automatic Marshall Compaction Workflow

**01**
**Prepare**
Prepare the mixture and suitable Marshall mould.

**02**
**Programme**
Set the blow count required by the method.

**03**
**Compact**
Run the automatic impact cycle.

**04**
**Complete**
Complete specimen preparation and records.

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