

Your Provider Of High Quality Material Testing Equipment

If It's Worth Building, It's Worth Testing

July 2025

As we step into July, it's hard to believe we are already halfway through 2025. This mid-year point offers a perfect opportunity to take stock of projects delivered, equipment in use and what's needed in the future.

With many laboratories entering a quieter phase over summer, now is the ideal time to review servicing needs, recalibrate equipment, and upgrade systems in preparation for a busy autumn.

Don't forget, ELE is UKAS accredited and able to calibrate not just ELE equipment but also other equipment in your labs.

Check our updated website, it's packed with new product information, datasheets, and downloadable resources to support your planning.

We are always ready to support your requirements and receive feedback on our services, let ELE International be your trusted partner – please call on **+44 (0) 20 7193 6027** or send an email to ele@eleint.co.uk

New Arrivals Into Stock

Range of compression machine frames including



ADR

Product code: 39-7160/01
Category: Fly Ash, Mixing, Moulding, Curing and Strength

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CBR Frame

Product code: 24-9150/01
Category: Compaction & CBR Test Equipment

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Auto Vicat

Product code: 38-2015/01
Category: Consistency, Setting Time, Workability and Flow

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GDU

Product code: 27-1500/01
Category: Data Logging, Software

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Standard Penetrometer

Product code: 46-5290
Category: Bitumen and Tar, Asphalt

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Heat of Hydration Apparatus

Product code: 38-4600/01
Category: Soundness

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Consolidation Frame

Product code: 25-0402
Category: Consolidation Apparatus, Soils

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Product Focus

Mortar Mixer – Digital 5 Litre Capacity

Product code: 39-0045/01, 39-0045/06

Category: EN 196-1, EN 196-3, ISO 679, EN 413-2, EN 459-2, EN 1744-1, EN 13279-2, EN 1015-2, EN 13395-1, EN 13454-2, BS 6463-103

Product Overview

Designed for laboratory mixing of mortars and cement pastes, the **ELE Mortar Mixer** delivers exceptional control, repeatability and compliance across multiple cement testing standards. Whether in education or commercial environments, this mixer provides a consistent foundation for precise, reproducible test specimens.

Relevance/Use Case

A reliable, programmable mixer is key to consistent sample preparation – especially for EN and ISO compliance. The microprocessor-controlled system offers flexibility for both routine and research applications, supporting automated and manual operation to suit every lab.

Key Highlights:

- **New microprocessor control:** for speed accuracy and cycle automation
- **Manual and automatic modes:** with rocker-switch speed change
- **Pre-set mixing cycles:** tailored to various test standards
- **Sand and water dispensers:** included as standard
- **Complies with all major EN cement and mortar mixing standards**



Technical Overview

Feature:	Specification:
Dimensions (L x W x H)	530 x 350 x 580 mm
Mixing Speeds (rpm)	• Paddle – 140 ±5 (low), 285 ±10 (high) / • Mixing Head – 62 ±5 (low), 125 ±10 (high)
Rated Power	180 W
Bowl Capacity	5 litres
Weight	54 kg

Power Supply Options:

- 39-0045/01 – 220–240 V AC, 50 Hz, 1 ph
- 39-0045/06 – 220–240 V AC, 60 Hz, 1 ph

Recommended Accessory

- Spare Bowl: 39-0045/10
- Scraper: 39-0045/12
- Cleaning Brush: 39-0045/13

Product Focus

Auto Vicat Apparatus

Product code: 38-2015/01

Category: EN 196-3, EN 480-2, EN 13454-2, ASTM C187, ASTM C191, AASHTO T129, AASHTO T131

Product Overview

The **ELE Automatic Vicat Apparatus** performs setting time and consistency testing for cement with a fully automated, programmable sequence. Its internal software, real-time LCD display, and built-in printer streamline compliance testing across both EN and ASTM standards – making it an efficient solution for modern cement laboratories.

Relevance/Use Case

Setting time and consistency are critical parameters in cement performance. Auto Vicat delivers these with precision and efficiency – reducing manual error and saving technician time while ensuring standard compliance.

Key Highlights:

- Fully automatic test cycle with LCD display
- Stores up to **50 complete test results**
- Penetration intervals: **30 sec, 1, 5, 15, or 30 mins**
- Real-time graphing + automatic test report printing
- RS232 interface + **Windows® software** for data export
- Operates in **saturated humidity at 20°C ± 1°C**



Technical Overview

Feature:	Specification:
Power Supply:	220–240 V AC, 50–60 Hz, 1 ph
Memory:	Up to 5 programmable test profiles
Connectivity:	RS232 port + supplied software
Includes:	EN & ASTM needles, mould, glass plate, plunger, RS232 cable

Recommended Accessories & Sares

- Needle Cleaning Device – 38-2015/12
- Mould Tank (water testing) – 38-2015/15
- Consistency Plunger – 38-2015/16
- EN & ASTM Needle Sets – 38-2021 / 38-2023
- Printer Paper Rolls – 38-2015/14
- ASTM / EN Vicat Moulds – 38-2660, 38-2300

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