

# 24 Soil Testing - Compaction and CBR

## Automatic Compaction of Soils

The time and effort required to prepare specimens for compaction studies and other test methods can often be costly and time-consuming. The use of an automatic, mechanical compactor will show considerable cost benefits over hand compaction methods. Two models meeting the requirements of BS/EN and ASTM are available.

### Automatic Compactor

BS1377, EN 1997-2, 1924; ASTM D558, D560, D698, D1557; AASHTO T99, T134, T135, T136, T180

- ◆ Pre-set blow pattern ensures even compaction
- ◆ Solid state controls for reliability and ease of maintenance
- ◆ Automatic re-setting of counter after completion of blow pattern

These machines automatically compact specimens eliminating the laborious hand compaction method. The height and weight of the rammer are adjustable to suit test requirements.

An automatic blow pattern ensures optimum compaction for each layer of soil. The rammer travels across the mould and the table rotates the mould in equal steps on a base that is extremely stable. The number of blows per layer can be set at the beginning of the test.

Specification		
Dimensions l x w x h	430 x 240 x 1400 mm	
Rammer	BS/EN	Circular faced, 50 mm dia, adjustable to 2.5 kg or 4.5 kg weight.
	ASTM	Circular faced, 2 in (50.8 mm) dia, adjustable to 5.5 lb (2.5 kg) or 10 lb (4.5 kg) weight.
Drop	BS/EN	Adjustable to 300 mm or 450 mm
	ASTM	Adjustable to 12 in (305 mm) or 18 in (457 mm)
Weight	98 kg	

### Ordering Information

EL24-9090/01 Automatic Soil Compactor, BS/EN for 220-240 V AC 50Hz 1ph.

### Accessories

Standard Compaction Mould see EL24-9000

BS CBR Mould Body see EL24-9198

BS CBR Extension Collar see EL24-9200

BS CBR Solid Base see EL24-9204



EL24 9090 series Automatic Soil Compactor with accessory mould



### Ordering Information

EL24-9095 series Automatic Soil Compactor, ASTM

EL24-9095/01 for 220 – 240 V AC, 50 Hz, 1ph

EL24-9095/02 for 110 – 120 V AC, 60 Hz, 1ph

### Accessories

Proctor Compaction Mould see EL24-9060

ASTM Compaction Mould see EL24-9066