

MODEL TO-114

Automatic Soil Compactor



Preparing specimens for compaction studies can be costly and time consuming. The Tinius Olsen Compactor automatically compacts soil specimens, eliminating the effort of hand compaction. The height and weight of the hammer is adjustable to suit test requirements. An automatic blow pattern ensures optimum compaction for each layer of soil. The hammer itself travels across the mold and the table rotates the mold 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 by means of the simple digital counter system.

Key features

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

APPLICABLE STANDARDS

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

STANDARD FEATURES

BS Standards

- **TO-11201** Proctor compaction mold for light compaction – 105mm ID x 115.5mm high
- **TO-11201-H** Compaction mold for heavy compaction – 152mm ID x 127mm high

ASTM Standards

- **TO-11301** Compaction mold for light compaction – 101.6mm ID x 116.4mm high
- **TO-11301-H** Compaction mold for heavy compaction – 152mm ID x 116.4mm high

AUS Standards

- **TO-11201-AS** Light compaction mold
- **TO-11201-H-AS** Heavy compaction mold

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TO-114 SPECIFICATIONS

Rammer	Circular faced, 50.8mm/2in diameter foot; adjustable to either 2.5kg/5.5lb or 4.5kg/10lb weight
Drop	Adjustable to either 305mm/12in or 457mm/18in
Controls	Digital counter system, selector switch for either standard proctor test or modified proctor/CBR testing
Dimensions	(WxDxH) 250 x 430 x 1400mm/ 10 x 17 x 55in
Weight (net)	190kg/419lb

Note: Compaction molds are not included and must be ordered separately

ORDERING INFORMATION

- **TO-114-BS-01** Automatic Soil Compactor, to BS EN standards, configured for operation at 110VAC, 60Hz
- **TO-114-BS-02** Automatic Soil Compactor, to BS EN standards, configured for operation at 220VAC, 60Hz
- **TO-114-BS-03** Automatic Soil Compactor, to BS EN standards, configured for operation at 220VAC, 50Hz
- **TO-114-ASTM-01** Automatic Soil Compactor, to ASTM standards, configured for operation at 110VAC, 60Hz
- **TO-114-ASTM-02** Automatic Soil Compactor, to ASTM standards, configured for operation at 220VAC, 60Hz
- **TO-114-ASTM-03** Automatic Soil Compactor, to ASTM standards, configured for operation at 220VAC, 50Hz
- **TO-114-AS-01** Automatic Soil Compactor, to AUS standards, configured for operation at 110VAC, 60Hz
- **TO-114-AS-02** Automatic Soil Compactor, to AUS standards, configured for operation at 220VAC, 60Hz
- **TO-114-AS-03** Automatic Soil Compactor, to AUS standards, configured for operation at 220VAC, 50Hz

OPTIONAL ACCESSORIES

- **TO-11201** Proctor compaction mold for light compaction – 105mm ID x 115.5mm high
- **TO-11201-H** Compaction mold for heavy compaction – 152mm ID x 127mm high
- **TO-11301** Compaction mold for light compaction – 101.6mm ID x 116.4mm high
- **TO-11301-H** Compaction mold for heavy compaction – 152mm ID x 116.4mm high
- **TO-11201-AS** Light compaction mold – 400 x 600mm
- **TO-11201-H-AS** Heavy compaction mold – 400 x 600mm