

## PROCTOR COMPACTOR

### Universal Automatic Proctor/CBR Compactor

#### Standards

AASHTO T180 | AASHTO T193 | AASHTO T99

ASTM D1557 | ASTM D1883 | ASTM D558 | ASTM D698

BS 1377:4 | EN 13286-2 | EN 13286-47 | NF P94-093

NF P94-066 | UNE 103-500 | AS 1289.5.1.1 | AS 1289.5.2.1



# PROCTOR COMPACTOR

## Universal and Fully Automatic

Proctor Compaction Testing is a fundamental requirement for the construction of earth fill for dams, reservoirs, highways, railways and runways. Quality Control tests check the density of compacted soil in the field to ensure that its strength complies with all the relevant standards.

CONTROLS Proctor/CBR universal compactor automatically performs programmable and uniform compaction cycles in full conformance to all standards. This automatic process eliminates inconsistencies in test data generated by manual adjustments and guarantees accurate and reliable results every time.

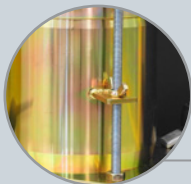


Continuous monitoring of the dropping height during compaction and automatic real time adjustment deliver utmost precision throughout the entire compacting path.

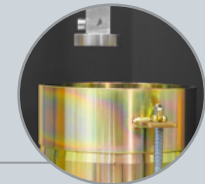


Automatic dropping height set by controller avoiding manual adjustment.

Secure alarmed double door system with see-through panels.



Universal quick release clamping mechanism compatible with most brands of CBR/Proctor molds.



Dropping height accuracy beats Standards' requirements from beginning to end of the compacting path.



Universal impact rammer including circular dia. 50 mm and 2".



**Superior accuracy** The machine continuously measures and adjusts the dropping height at each stroke during compaction delivering high precision throughout the whole compacting path.



**Fully automatic and versatile** Dropping height is set from the digital display without the need for any manual adjustments. The mold fixing system uses a quick release clamping mechanism compatible with CONTROLS and most brands of CBR/Proctor molds.\*



**Optimal user interface** The user-friendly interface boasts a high-resolution color graphical display 128 by 80 pixels as well as a membrane keyboard. You can access pre-stored test procedures in multiple languages plus tailor test methods according to your needs.



**Ergonomic and safe** This fully CE compliant machine features a double door system with see-through panels that provides a clear view and easy access to the testing chamber during compaction. If doors accidentally open, a safety switch will automatically stop the machine plus a STOP button is also close at hand in case of emergency.



**Total functionality and easy operation** The machine is supplied with a universal impact rammer (50 mm and 2" dia.) that can be swapped in a few seconds. Adjusting the weight is equally easy and can be done in one single operation (see table). A sound-proof steel cabinet with double top-and-front and lined with soundproofing material is available on request.

\* Please check with our sales department prior to ordering

# Technical Specifications

## Fully Universal

CONTROLS Proctor/CBR universal compactor automatically performs programmable and uniform compaction cycles in full conformance to all standards.

This automatic process eliminates inconsistencies in test data generated by manual adjustments and guarantees accurate and reliable results every time.

Standards	Rammer face dia.	Rammer weight	Rammer dropping height
ASTM D698	50.8 mm	2.49 kg	304.8 mm
ASTM D558	50.8 mm	2.49 kg	304.8 mm
ASTM D1557	50.8 mm	4.54 kg	457.2 mm
ASTM D1883	50.8 mm	2.49 kg 4.54 kg	304.8 mm 457.2 mm
AASHTO T99	50.8 mm	2.49 kg	305 mm
AASHTO T180	50.8 mm	4.54 kg	457 mm
AASHTO T193	50.8 mm	2.49 kg 4.54 kg	305 mm 457 mm
EN 13286-2 EN 13286-47 NF P94-093	50 mm	2.50 kg 4.50 kg	305 mm 457 mm
BS 1377-4	50 mm	2.50 kg 4.50 kg	300 mm 450 mm
AS 1289.5.1.1	50 mm	2.7 kg	300 mm
AS 1289.5.2.1	50 mm	4.90 kg	450 mm

## Ordering Information

### 33-T3712

Universal fully automatic programmable Proctor/CBR compactor for specimens from 100 mm (- 4") to 150 mm (- 6") diameter, conforming to EN, ASTM, AASHTO, BS, NF, AS and major international Standards. Universal rammer kit included. 230 V, 50 Hz, 1 ph.

### 33-T3713

As above. 220 V, 60 Hz, 1 ph.

### 33-T3714

As above, 110 V, 60 Hz, 1 ph.

## Accessories

### Upgrading Kit

#### 33-T3712/AU

Upgrading kit for Australian Standard AS 1289.5.1.1 and AS 1289.5.2.1

### Sound-proof Cabinet

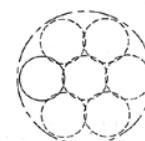
#### 33-T3712/CB

Sound-proof cabinet for CBR-Proctor universal compactor

This unique system fully conforms to all standards (EN, ASTM, AASHTO, AS, BS, NF, etc.) plus can accommodate 100 mm (4") and 150 mm (6") molds.



Mould Ø 100/4"



Mould Ø 150/6"

## Models: 33-T3712 | 33-T3713 | 33-T3714

<b>Mold/specimen diameter:</b>	100 to 152.4 mm (4" and 6")
<b>Rammer faces (Interchangeable conforming to Standards):</b>	Circular (dia. 50mm/2")
<b>Rammer weight (Interchangeable conforming to Standards):</b>	2.49, 2.50, 2.70*, 4.50, 4.54, 4.90* kg
<b>Rammer dropping height (digitally set conforming to Standards):</b>	300, 305, 450, 457 mm
<b>Blow rate:</b>	30 strokes / min
<b>Safety features:</b>	Compliant with CE directives
<b>Power rating:</b>	650 W approx
<b>Overall dimensions (W x D x H):</b>	494 x 595 x 2500 mm
<b>Weight:</b>	Approximately 150 kg

\* Available with the upgrade kit 33-T3712/AU

## CONTROLS Customer Care

As one of the longest established manufacturing companies in the world of Construction Materials Testing solutions, we are dedicated to supplying high quality, accurate, affordable, easy to use systems.

As a valued customer of CONTROLS, you will receive continuous, expert support and advice for your equipment. Furthermore, we can offer full installation and training in the correct operation of your CONTROLS equipment.

For support from our expert Customer Care Team, contact CONTROLS Inc at [info-usa@controls-group.com](mailto:info-usa@controls-group.com).

To order or upgrade your product, please contact our sales department at [info-usa@controls-group.com](mailto:info-usa@controls-group.com).

For more information, please visit [www.controls-group.com/usa](http://www.controls-group.com/usa).

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