

Universal Proctor/CBR automatic compactors



- Universal automatic application: one single model that fulfills all Standards requirements (ASTM/AASHTO/EN/NF/BS/UNE etc.), including the central blow
- User friendly selection of Standards EN, ASTM/AASHTO, BS, NF and other major International Standards by software
- Possibility to program up to 15 user defined compaction cycles and sequence
- Rammers and rammers kit for easy interchangeability according to all International standards included
- All safety features as protection guards and emergency button included as standard with the compactor
- Lateral transparent panel ensures free view on the compaction evolution
- Double doors for free access to wide test area
- Sensors controlled adjustable rotation angle from 5° to 90° (5° steps)
- Noise reduction cabinet is available (see accessories)
- Unique rammer lifting device to guarantee correct and longlife drop height

CVI TECH
 CUSTOMER'S VALUE
 DRIVES THE INNOVATION

Proctor/CBR universal automatic compactor

Standards ASTM D1883 | ASTM D698 | BS 1377:4 | ASTM D1557 | AASHTO T99 | AASHTO T180 | NF P94-093 | AASHTO T193 | EN 13286-47 | EN 13286-2

The automatic compactor provides a fully automatic and uniform compaction of specified effort, thus ensuring repeatable test results and eliminating any operator fatigue during the tests. Conforming to all the above and other major International Standards, designed for moulds 100 to 102 and 150 to 152.4 mm diameter, this programmable microprocessor-controlled soil compactor is particularly suitable for research purposes as it is possible to program a user-defined compaction sequence and a sequence conforming to standards. A sophisticated compaction technique permits the central blow required for the 150-152.4 mm diameter moulds. The end of each layer compaction is indicated by a visual and acoustic signal.

Two doors, one blind frontal and one transparent lateral, ensure comfortable access to a wide test area and gives free view during test running.

The machine is supplied complete with all relevant accessories as: 2

rammer faces and two rammer weights that are easily interchangeable according to the reference standard. Consult the table in "Technical specification" area for further informations about rammer applications, where all fulfilled International Standards requirements are summerized.

The wide control display and panel are connected with a shock absorber system and can be tilted according to user comfort.

The software gives the possibility to program customized sequences allowing the user to set very precisely the rotation angle from 5° to 90° with 5° steps between two subsequent blows, granting a precise and uniform blows distribution.

The rotating base has screw clamping system for the moulds locking.

The automatic compactor can be supplied with noise reduction cabinet (see accessories).

This is a CVI-Tech product: best value drives the innovation.

Technical specifications

Models	33-T3512 33-T3513 33-T3514
Mould/specimen dia.	100 to 152.4 mm (4" and 6")
Rammer face dia. (Interchangeable conforming to Standards, see table below)	50 and 50.8 mm.
Rammer weight (interchangeable conforming to Standards, see table below)	2.49-2.50-4.50-4.53 kg
Rammer drop (adjustable conforming to Standards, see table below)	300, 305, 450, 457 mm
Blow rate	25 blows/min, approx.
CE protection	Included
Power rating	650 W approx.
Overall dimensions (wxdxh)	460x460x1390 mm
Weight approx.:	140 kg

Rammer application guide.

The Universal Automatic Compaction Hammer series 33-T3512 as specified can be easily set with the different rammer face diameter, rammer and drop weight.

The following table summarizes all the Standard requirements. This model can surely satisfy other National Standards too.

Standards	Rammer face dia.	Rammer weight	Rammer drop height
ASTM 698	50.8 mm	2.49 kg	305 mm 457 mm
ASTM D1557	50.8 mm	4.53 kg	305 mm 457 mm
ASTM D1883	50.8 mm	2.49 kg 4.53 kg	305 mm 457 mm
AASHTO T99 AASHTO T180 AASHTO T193	50.8 mm	2.49 kg 4.53 kg	305 mm 457 mm
EN 13286-2 EN 13286-47	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
NF P94-093	50 mm	2.49 kg 4.53 kg	305 mm 457 mm

Ordering information

33-T3512

Universal Fully Automatic Programmable, Proctor/CBR automatic compactor for specimens from 100 to 152.4 mm dia, conforming to EN, ASTM, AASHTO, BS, NF, UNE and major international Standards. Rammer and rammer kit "all standards" included. Safety doors system and see-through window included. 230 V, 50 Hz, 1 ph.

33-T3513

Universal Fully Automatic Programmable, Proctor/CBR automatic compactor for specimens from 100 to 152.4 mm dia, conforming to EN, ASTM, AASHTO, BS, NF, UNE and major international Standards. Rammer and rammer kit "all standards" included. Safety doors system and see-through window included. 220 V, 60 Hz, 1 ph.

33-T3514

Universal Fully Automatic Programmable, Proctor/CBR automatic compactor for specimens from 100 to 152.4 mm dia, conforming to EN, ASTM, AASHTO, BS, NF, UNE and major international Standards. Rammer and rammer kit "all standards" included. Safety doors system and see-through window included. 110 V, 60 Hz, 1 ph.

Accessories

33-T3000/CB

Noise reduction cabinet for Proctor-CBR compactor 33-T3500 and 33-T3600 series featuring a fast and easy external installation of the control panel.



Proctor/CBR universal automatic compactor with open front door and see through panel



Proctor/CBR universal automatic compactor model 33-T3500 fitted inside the 33-T3000/CB soundproof and security cabinet



Compaction test procedure selection (display)



Compaction test parameters



Compaction progress view

