

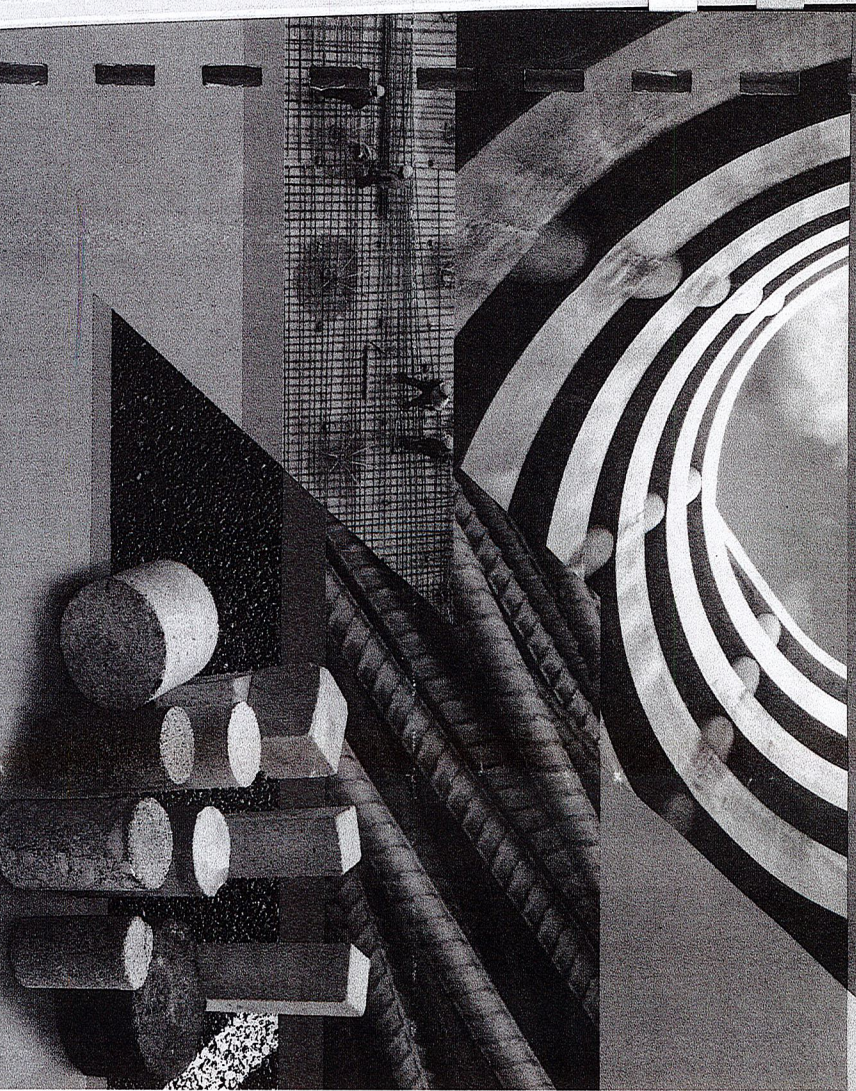
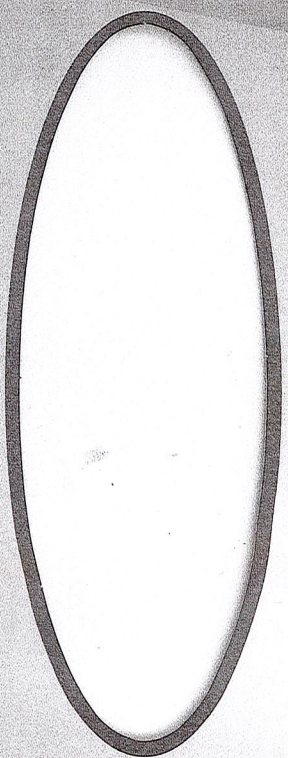
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MATERIAL TESTING EQUIPMENT

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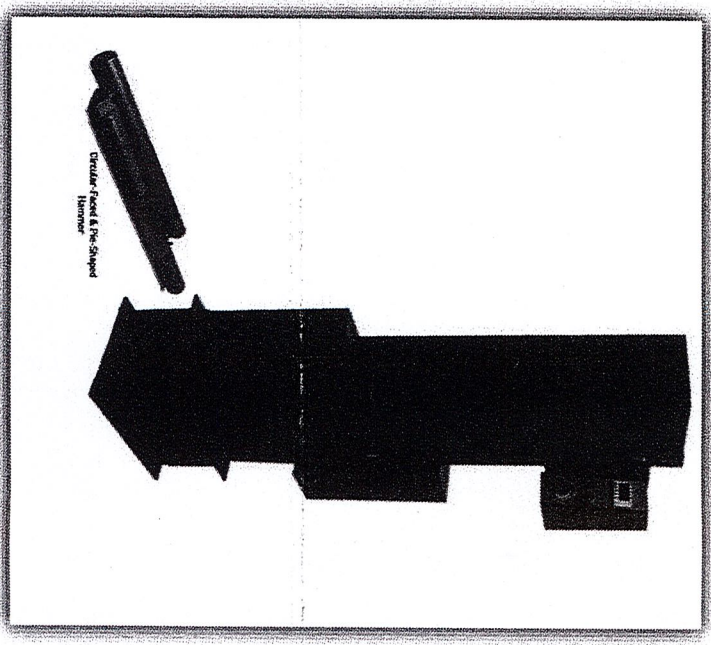
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| AUTOMATIC SOIL COMPACTOR | | | |

UTS-0626

AUTOMATIC SOIL COMPACTOR



USER MANUAL



MATERIAL TESTING EQUIPMENT

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NOTE: In order to increase product quality, machine technical specifications may be changed without telling beforehand. The photos in the user manual are representative photos. So, they may not be as completely same as with your machine.

1. INTRODUCTION

The following symbols are used in this manual



This symbol recalls attention warning or procedure which assures operator safety or good functioning of apparatus.



This symbol recalls attention useful information about test procedure and about easy use of the machine and suggestions.

It is important to install device correctly, to maintain it regularly and to use as described manner.

The guarantee period of the machine you have bought is 1 year and the product end-of-life is 10 years. Product end-of-life is the time in which all parts of the machine has to be kept in the stock of the company.

PS: Do not use the machine without reading this instruction manual. This manual will help you to use the machine easily and safely. Specific test procedures are not mentioned in this instruction manual. It is recommended to read related standards for further information.



This machine is manufactured without harming the environment and animals.

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2. WARNINGS - SAFETY DEVICES

Please read and follow the procedure below. There may be injuries, performance decrease of the machine or physical damage. In such a case, every guarantee and reliability undertakings will be invalid.

WARNINGS

- The machine is designed such that it must be used in the laboratory conditions. Do not set it in a dusty, humid or hot medium.
- Set the machine correctly, use it as described manner and do maintenance regularly.
- Contact with the technical service department in case the power cable or electrical cable is broken down.
- Some problems may cause due to electrical equipment of the building. So the machine must be set into an electrically suitable medium. It is very important to ground the machine and that the earth of the electrical supply is in good condition. In the case of inefficient and non-existent earth, there is a potential danger to operator, machine and the working performance of the Control Unit.
- Do not change electric circuit of the machine.
- While the power cable is plugged into the mains or while the machine is running, do not remove any parts of the machine.
- Only qualified person should perform the related repairs.
- Do not change the calibration settings of the machine.
- If the instructions given in troubleshooting cannot help to solve your problem, plug out the power cable and call UTEST Technical Service.
- The machine must only be used with samples and apparatus given in the instruction manual. Do not use samples which has inappropriate hardness for the platens of the machine.
- Keep the surfaces of the piston and the platens clean. There shouldn't be any specimen debris on them while the distance pieces are placed under the lower platen.
- Keep this manual for future reference
- Do not forget other general safety rules while operating an industrial machine which are not given in this manual.

PS: The warnings are dedicated for all related UTEST Machine Park. Therefore, some of them may not be applicable to this particular device.

SAFETY DEVICES:

All UTEST UTS-0600 series compactor machines are fitted with:

- Door safety switch to prevent machine run.
- Emergency stop button

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3. GENERAL DESCRIPTION

The principle of the design is to perform a homogeneous blow distribution on the surface area of the specimen in a mold the help of digital control unit. The selected rammer having the required weight and diameter is picked up by a chain lift mechanism. It has a cam system for accurate height release and made of hard-wearing material for trouble free long life. Mold rotates in equal angle between each blow on the rotational base platen. When compacting 4"-100 or 6"-150 m diameter specimens, their dedicated rammer has to be used. There is no inner or outer radius operation for perfect compaction, thanks for the pia-shaped rammer. The number of blows per layer complying related standards can be selected through the digital control unit at the beginning of the compaction operation. All moving parts are shielded by closing the doors while the machine is running. A micro switch stops the operation if the doors are open, which helps to maintenance easily. It is also compatible with the requirements of CE norms about electrical equipment, machine securi regulation, electromagnetic compatibility regulation and some other standard judgments.

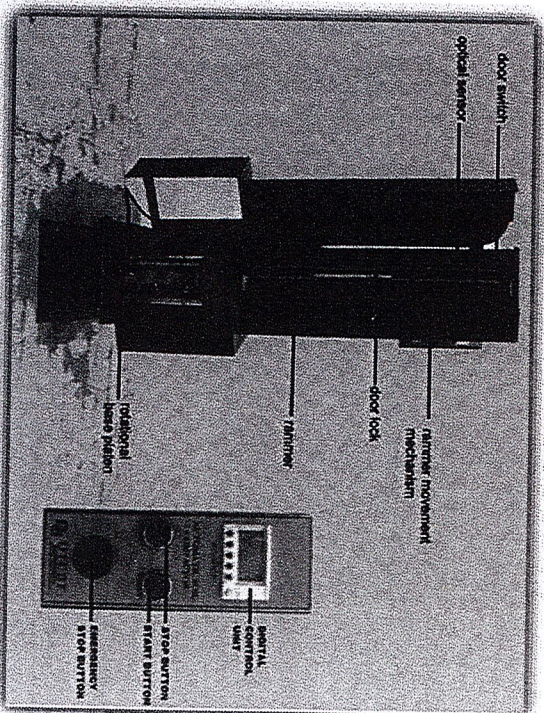


Figure 1: Machine Parts Overview

FRONT SAFETY DOORS (Figure 1)

When one of two safety doors are opened, the door safety switch cut out the drive motor. This prevents the operator to access the rammer drop area and thus possible injuries.

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✓ **ROTATING BASE PLATEN (Figure 2)**

The rotation base platen is designed to give the best homogenous blow pattern depending on the size of the molds. Just after the rammer leaves the sample and the table rotates the mold in equal steps and stay stable until next blow. There are 4 screw holes on the platen; one pair for 4-inch mold and another pair is for 6-inch mold connection.



Figure 2: Rotating Base Platen

✓ **MOLD (Figure 3)**

There are two separate molds, which their diameters are 4 and 6 inches.

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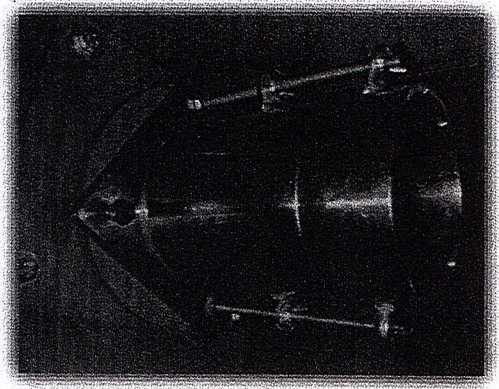


Figure 3: Mold



Figure 4: Rammers

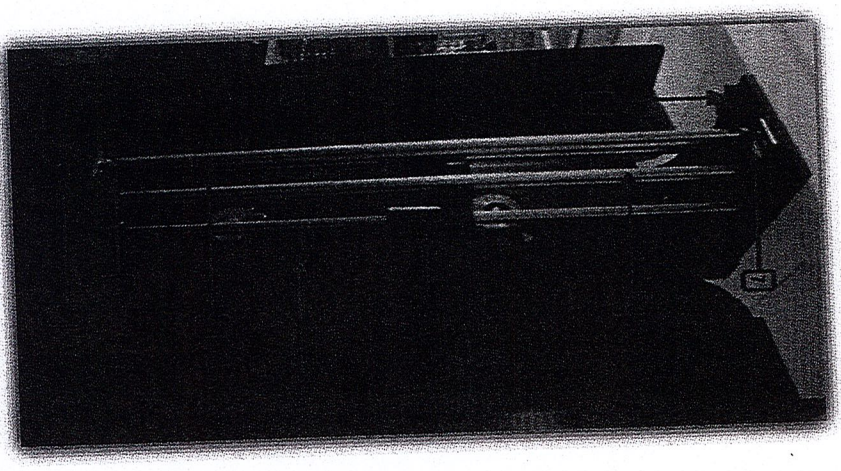
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✓ **RAMMER (Figure 4)**

There are two separate hammers for 4 and 6 inch molds. Pie shape one is for 4 inch molds. They are not interchangeable use-wise.

1. Optic Sensor
2. Rammer Installation Rod
3. Door Switch
4. Rammer Lifter
5. Rammer Safety Lever
6. Rammer Installation Hole
7. Rammer Hole for Max Movement
8. Chain
9. Rammer Guide Bars

Figure 5: Behind the Door



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✓ **OPTIC SENSOR (Figure 5-1)**

Sends the signals to the digital counter when the small metallic plate fitted to the chain comes to the closest distance with optic sensor in order to count number of blow one by one. The maximum displacement between chain and optic sensor must be 8 mm.

✓ **DOOR SWITCH (Figure 5,3 and Figure 6)**

Acts like pause key for safety reasons whenever the doors are opened while the device runs.



Figure 6: Door Safety Switch

✓ **THE RAMMER LIFTING MECHANISM (Figure 5-4)**

This mechanism provides lifting the hammer to the top position of the chain and lets the rammer drop along with guide rods on the surface of sample mold while compaction is operated on 4" or 6" molds. Base plate rotates in relation with rammer motion. Base plate does not move in radial direction, only rotates. For compensation, a different pie shape hammer is used for 6 inch mold. After each blow, the rammer is raised to its initial height by this mechanism. Before conducting a test, the

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rammer position should be adjusted manually. The position point should be at the position, at which the rammer will be up and just about to drop.

- **Rammer Lifting Mechanism Rod (Figure 7)**

The mechanism providing the rammer to be catches and released moves vertically through this rod.

- **Rammer Catch /Release and Position Lock Tongue (Figure 7)**

This tongue catch and drop the rammer from the selected height. It also holds the rammer in locking position at its initial position after compression process. Thus, it prevents accidental dropping of the rammer while positioning a mold.

- **Rammer Guide Carrying Frame (Figure 7)**

It ensures the position of the rammer on vertical axis. There is no need for the rammer to change its vertical position, as it has a unique pie-shape tip, the rammer manages to simulate inner/outer blows without moving radially.

- **Chain (Figure 5-8 and Figure 7)**

The chain helps the mechanism connected to itself to catch and release the rammer. It rotates in clockwise direction.

- **Optic Sensor Activator Plate (Figure 7)**

This metallic plate fitted to the chain ensures signal to be sent to the digital counter by passing through the front of the optical sensor. Thus, digital counter get able to count rammer blow number.

- **Rammer Guide Bars (Figure 5-9)**

They are for guiding the rammer. Rammer is lifted and dropped through those 3 guides.

- ✓ **ON / OFF ROCKER SWITCH, FUSE and PLUG, Figure 8.**

- ✓ **ELECTRIC MOTOR and REDUCER, Figure 9.**

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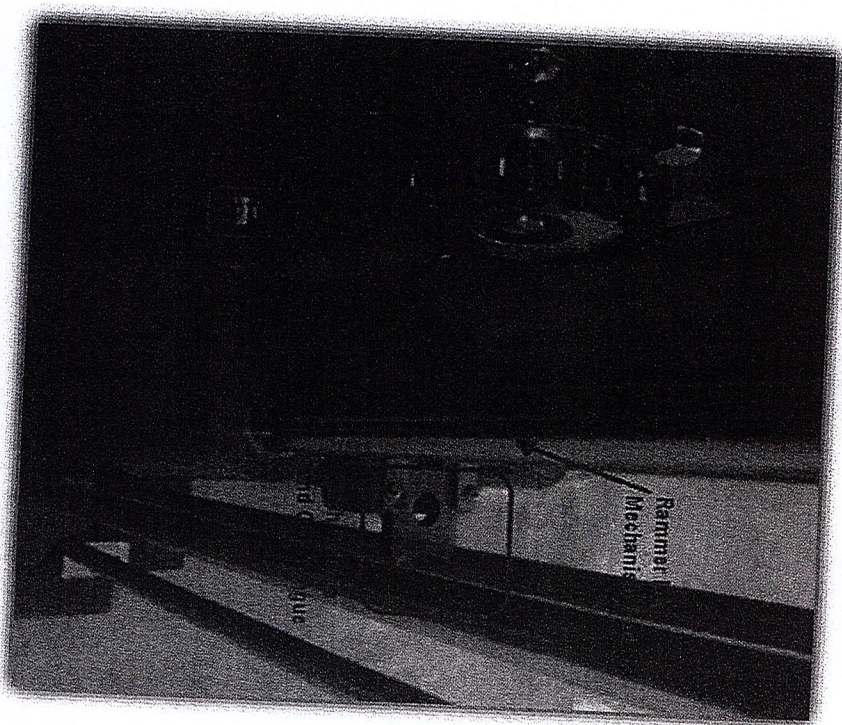


Figure 7: Grip Mechanism

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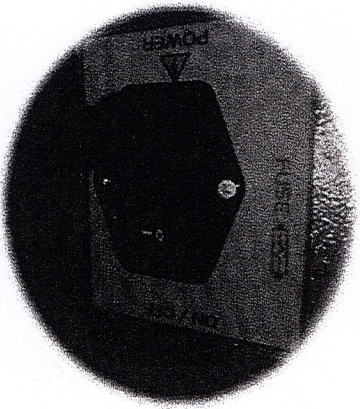


Figure 8: Rocker Switch

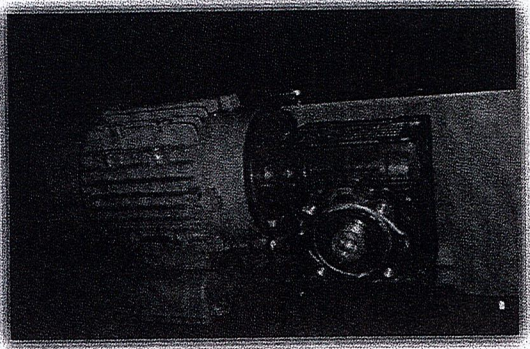


Figure 9: Motor and Reducer for Chain Mechanism

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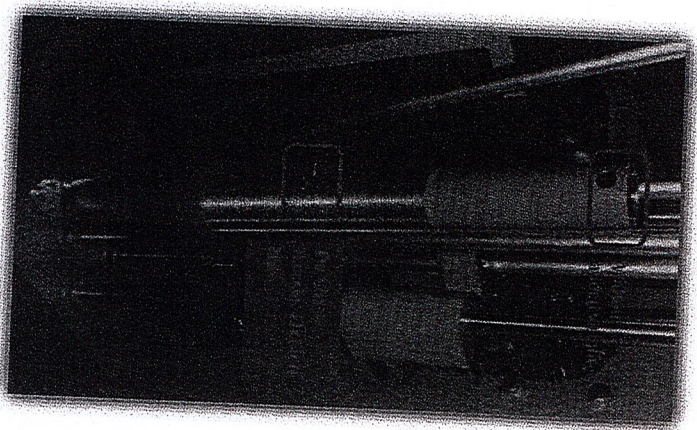



Figure 10: Rammer Installation

✓ **RAMMER INSTALLATION (Figure 10)**

There are 2 types of rammers. The way they are installed are nearly the same, but with the pie-shape rammer, the operator should pay attention to one extra, but important installation point. There are fixation lips on its thread surface of the pie shape rammer. Those two lips have to get engaged with the rammer installation rod. For round-tip rammer, there is no need to do so, as the tip of the rammer is round, i.e. symmetrical.

✓ **DIGITAL CONTROL UNIT (Figure 1)**

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UTC 0626 Automatic Soil Compactor digital control unit commands the machine automatically to compact specimen by considering the compaction criteria given in the related standards by the user. After completing compaction of selected blow number according to the related standard, the program stops the machine automatically.

✓ **START BUTTON (Figure 1)**

Starts the program to drive compaction operation by control unit.

✓ **STOP BUTTON (Figure 1)**

Sends command to the control unit to stop the program while in any progress. This is not for emergency stop. So, it shouldn't be used for emergency purpose. When STOP button is pressed, it does not act instantaneously, it waits until the rammer returns to its initial point, in order to avoid the rammer stay inside the mold. This command clears the current blow number values if it is pressed twice. Keys on the control unit are not active while the machine is running. Only when the machine is in stop mode, they are active. The machine goes on compacting and counting after pressing "Start" key.

✓ **EMERGENCY STOP BUTTON (Figure 1)**

Powers off the machine in case of emergency. It is related clockwise direction to power on.

4. CONTROL UNIT

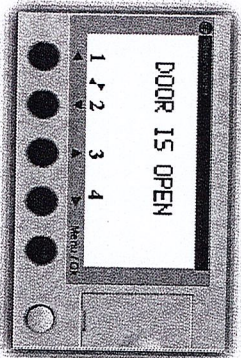



Figure 11: Door Safety Screen

✚ **FRONT DOOR SAFETY SCREEN**

While front doors are open, none of the operations can be performed with control unit. If the front doors are open as the control unit is switched on, the front doors safety page is displayed (Figure 11).

✚ **SCREEN SETTINGS**

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When the device is turned on, 4 inch compaction page comes up, 6 inch section is selected by using right arrow key. It is not required to press any key to confirm the selected page. The machine can perform the compaction only when a related page preferred for a compaction operation is displayed on the screen.

Whenever the rammer blows, # of drops increases one by one. After performing blows as many as written at the related control unit page, # of drops gets zero and # of batches increases one more. When a new layer is compacted, # of drops starts from 1 and increases as mentioned above. # of drops is seen as many as the number of blows performed through the related control unit page only for that page. But, # of batches is seen as many as the total number of compactions performed at different pages. If you multiply batch amount with drop number, you will get total blow amount for a complete one test.

When returning the previous pages on which the compaction is paused by pressing STOP button and if pressing the START button, the compaction on that page resumes. When pressing STOP button twice, the value number of drops is deleted on the displayed page.

PS: In case the electricity cuts off while the device is on, the given blow parameter by the user becomes ZERO after the device is powered back, as the control panel does not have flash memory.

✚ **TEST PAGES:**

Please check below pages for default test types for the device screen. There are 2 different test versions as 4 and 6-inch molds. Drop amount is entered via UP arrow button, DOWN arrow button is used in order to decrease the value.

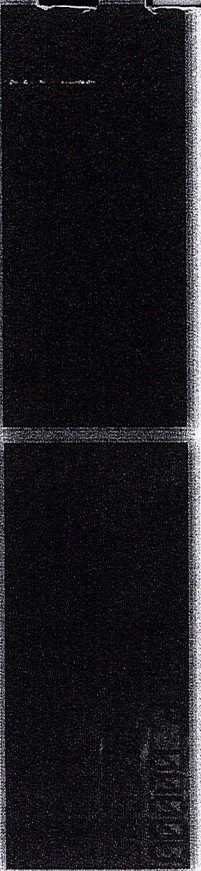


Figure 12: Compaction Screens

The UTS-0626 Automatic Mechanical Compactor is designed to perform fast and accurate compaction of soil samples automatically acc. to ASTM and AASHTO standards. For standard or modified compaction tests with 5.5 lb. hammer with 12" (305 mm) height of drop or 10 lb. hammer with 18" (457 mm) drop. Compactor accommodates 4" (102 mm) or 6" (152 mm) I.D. molds, 4" (102 mm) round hammer or 6" (152 mm) pie-shaped hammer compensate for sample drop during compaction. The total weight of the hammer is concentrated at the foot in order to provide a free-fall action. Hammers can easily be replaced from the front side of the compactor.

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5. TECHNICAL SPECIFICATIONS

The Automatic Mechanical Compactor is supplied complete with:

- Circular Facet Hammer 5.5 lb. (2.5 kg)
- Pre-Shaped Hammer 10 lb. (4.5 kg)
- Mould 4" (102 mm) only for UTS-3626/110
- Mould 6" (152 mm) only for UTS-0626/110

| | |
|------------------|-----------------|
| Dimensions | 750x350x1500 mm |
| Weight (approx.) | 180 kg |
| Power | 400 W |

NOTE: Data for identification of the machine such as model number, serial no, capacity, dimension etc. are written on a label at the rear of the control unit.

6. INSTALLATION


Lifting the machine must be done in a meticulous manner. Damage caused by mishandling will not be accepted by UTEST. The soil compactor machine is very heavy. Do not attempt to carry or move without proper equipment and sufficient people. Remember, always lift with your legs, not with your back.

➤ Install the machine in a dustless, dry and well lighted medium.

➤ Move the shipping container carefully.

➤ Unpacked the machine and check whether there are damaged items or not. If there are some, please contact at one of UTEST Technical Service Engineer or your UTEST Salesperson who sold you the machine.

➤ To move the machine, use the eye bolt mounted on top of the machine. Use a lifting equipment of sufficient capacity.

➤ Leave about 500 mm all around the machine so that the guard doors can be freely opened to allow for the placing/removing of the molds.

➤ Anchor the machine to its foundation by the help of the four holes in its base. The machine is provided with 10 mm bolt holes set at center of 305 mm wide x 317 mm width, for securing the unit to the floor (See Figure 9).

- Connect the power cord to the mains socket and the machine. Check that the electrical properties of the machine are compatible with the requirement of local electric line. The electrical specifications is written on the label at rear of the machine. Should no label be found, please contact UTEST Service Department quoting the product code of the device.

- Place it on its foundation which must be level and stable. Since the rammer is free falling, the machine must be perfectly aligned vertically after installation. It is recommended the slope of floor on which the machine is installed is less than 5 degrees. A spirit level can be used to measure vertically and perfect vertically can be adjusted with a metal shim placed at the anchorage points. It is also recommended to lay concrete block sizes of which are 700x300 mm for UTS 0626 for placing the machine on it at least a week ago before delivery.



It is very important to perform the earth connection of the machine properly and that the earth of the electrical supply is in good condition. In the case of inefficient and nonexistent earth, there is a potential danger to operator, machine and the good working of the Control Unit.

NOTE: The power cord is coded as follows: Brown wire L Live or Power, Blue wire N Neutral, Green/Yellow wire E Earth or Ground.

7. OPERATION

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PLACING the COMPACTING MOLD

Unscrew the mold fixing pins on base platen. For the first layer compaction, place the mold filled with enough specimen between the pins and then screw the mold fixing pin bolts with your hands. During this process keep your hands away from the rammer drop area. Be sure that mold filled with the specimen being compacted is the same with the mold size selected by operators through the compaction page. Otherwise, this may damage the machine.

COMPACTION OPERATION

Specimen compaction process can be performed by following below steps:

- a. If it is needed, do the suitable rammer installation by means of related test standard.
- b. If it is needed, do the rammer height settings via adjustment slots shown on Figure 12. The cam (lappet) can be put in its place either way, no difference.

Figure 13: Rammer Slots

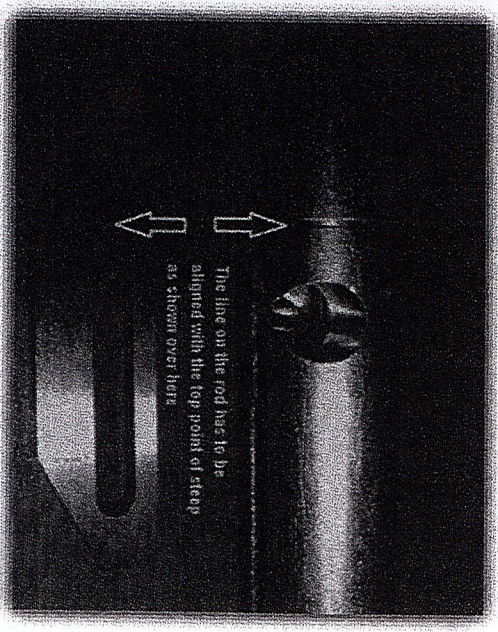
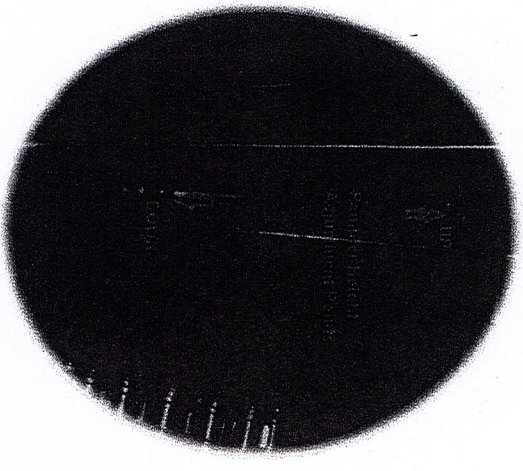


Figure 14: Four-inch Rammer Slot and Tappet

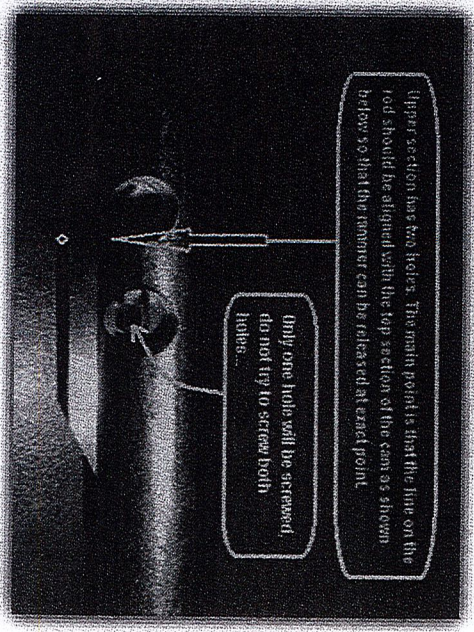


Figure 15: Six-inch Rammer Slots

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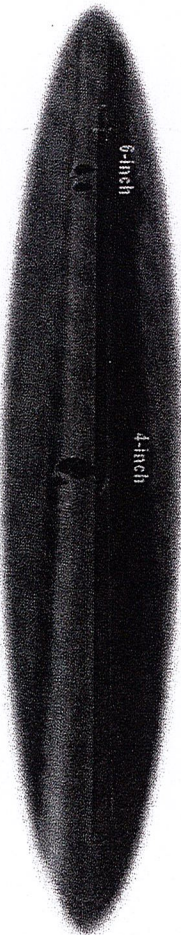
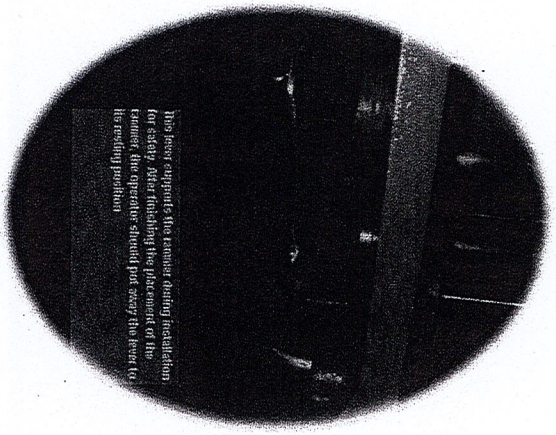


Figure 16: Rammer Slots on the Rod



This piece supports the rammer during installation for safety. After finishing the placement of the rammer, the operator should put away the lever to the resting position.

Figure 17: Rammer Holder

- c. Place the mold filled with first layer of specimen on the rotational base platen.
- d. Close the front safety doors.
- e. Switch on the control unit by on/off switch at the rear of the unit.

- f. Select the required compaction setting page by right arrow.
- g. Press START button
 - i. Compaction starts
 - ii. Number of rammer blows is seen on the " # of drops " line and increases one by one
 - iii. After the number of rammer blow is accomplished, the machine stops automatically and the rammer returns to its initial position.
 - iv. Compactor stops automatically when the number of blows displayed on the compaction page are accomplished. On the number of batches line, the number of compaction accomplished in first layer is seen as 00001.
- h. Open the front safety doors for doing the second layer compaction.
- i. Fill the specimen in the mold.
- j. Close the front safety doors.
- k. Repeat the process from the step d.
- l. Switch off the control unit after accomplishing the number of layers required.
- m. Take the compacted mold out from the rotational base platen.
- n. Clean the rotational base platen and the rammer guide.

Not to damage rotational base platen, check that the mold placed for compaction has the same size with mold size selected by operator through the "Compaction Setting" page at control unit.

Batch means one compaction session described by means of given drop number. The device stops in order for allowing the user to put 2nd or 3rd layer of soil on the mold.

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8. MAINTENANCE



Before performing any maintenance or repair, disconnect the power cord from the supply. Do not remove any items or attempt to adjust them without proper training.

✓ Clean the Control Unit

Brush away excess dust and dirt from around the control unit.

✓ Drop Height Correction

The upper cam may be moved by unscrewing the grub screws that fix it in its position. There are two different slots for the cam to be installed so that the rammer height/stroke can be 12 or 18 inches by means of mold size. The cam/lappet which is located at lower section responsible for grabbing the rammer from mold is fixed, it can't be altered height-wise.

8.1. Lubrication

It is recommended that the following wearing parts are regularly cleaned and greased (approx. every 30 compactions) by using a good quality light oil so as to ensure long working life:

CHAIN: Clean with a cloth dampened in solvent and then grease all the links.

RAMMER LIFTING/GUIDE ASSEMBLY: Clean with a cloth dampened in solvent, paying particular attention at the drop height cams found at the two ends of the rod, then well grease. To ensure good greasing, make 5 or 6 drop cycles without the rammer, and then add more grease to the chain and lifting and guide system if it is necessary.

8.2. Fuses

If the machine does not switch on, check ON/OFF switch and emergency stop button. If the problem still exist, replace the fuse found at the rear of the control unit as shown in Figure 18.

- 1) Unplug the power cord
- 2) Open and extract the fuse holder box by pushing it with a screwdriver
- 3) Replace the original fuse with its spare

NOTE: Frequent fuse failures generally indicate that there is some electrical problem with the machine. If problem persists, contact with UTEST.

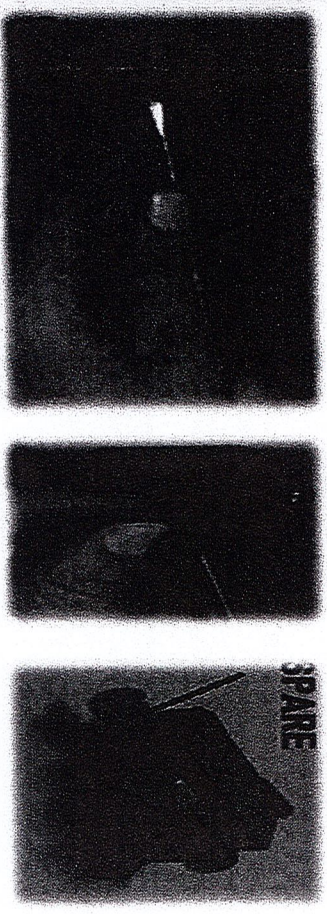



Figure 18: Fuse Control

9. CERTIFICATE

| | | |
|--|---|--------------------|
| UTEST MATERIAL TESTING EQUIPMENT | | Rev.2 / 12.02.2015 |
| UTS-0626 | ASTM D5558, D560, D698, D1557, D1883, AASHTO 199, T134, T135, T136, T180, T193 | |
| AUTOMATIC SOIL COMPACTOR | | |

| | | |
|--|---|--------------------|
| UTEST MATERIAL TESTING EQUIPMENT | | Rev.2 / 12.02.2015 |
| UTS-0626 | ASTM D5558, D560, D698, D1557, D1883, AASHTO 199, T134, T135, T136, T180, T193 | |
| AUTOMATIC SOIL COMPACTOR | | |



UTEST
MATERIAL TESTING EQUIPMENT

EC DECLARATION OF CONFORMITY
AT ÜYÜNLÜK BEYANI

Directive 2006/42/EC, Annex II (A)
Makine Emniyeti Yönetmeliği (2006/42/AT), Ek II (A)

MANUFACTURER : UTEST Makine Test Çözümleri ve Malzemeleri İmalat ve Dağıtım A.Ş.
Ülke : ASO 1. Organize Sanayi Bölgesi Üni Cad. No: 18 Sincan / Ankara / TÜRKİYE
ADRES :
Adres :

MODEL :
Model :
SERIAL NUMBER :
Seri No :
DESCRIPTION :
Ürün Adı :

İstenen :
 • See Details on Product Identification Label
 • Ürün Tanımlama Etiketine Bakınız
 • Automatic Soil Compactor
 • Otomatik Toprak Sıkıştırıcı


is in conformity with the provision of the following EC directives,
 belirtilen AT Yönetmelikleri hükümlerine uygundur.

- Machinery Directive (2006/42/EC)
- Makine Emniyeti Yönetmeliği (2006/42/AT)
- Low Voltage Directive (2006/95/EC)
- Düşük Voltaj Yönetmeliği (2006/95/AT)
- Electromagnetic Compatibility Directive (2004/108/EC)
- Elektromanyetik Uyumluluk Yönetmeliği (2004/108/AT)


is in conformity with the following standards,
 belirtilen standartlar ile uygundur.

ASTM D5558, D560, D698, D1557, D1883

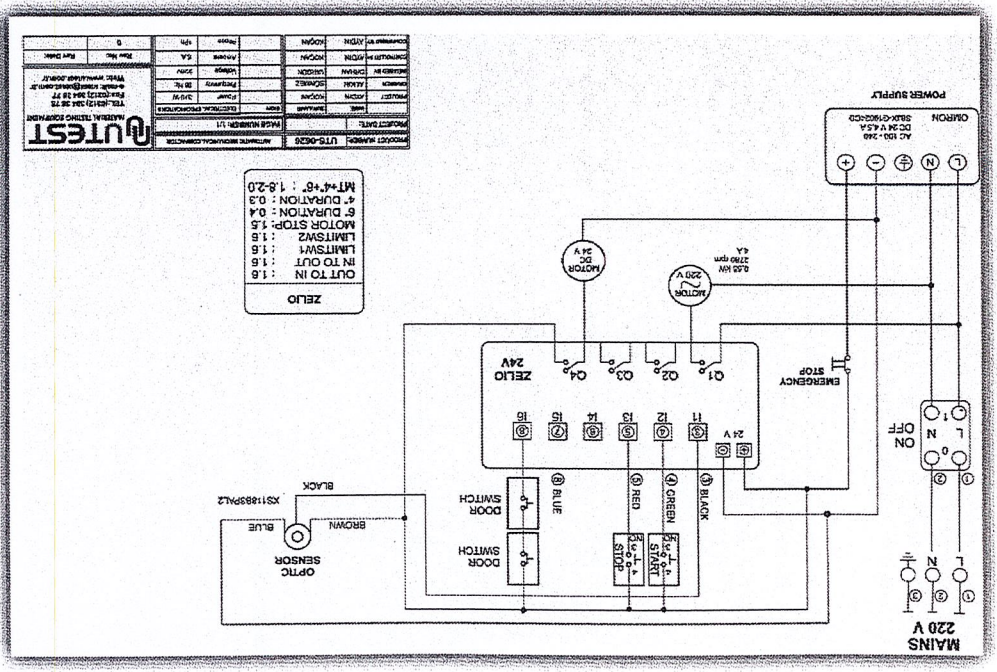
Product Safety Manager
 Güler Gönenk Yılmazoğlu
 Fırat 1944



Issue Date
 Yayımlanma Tarihi
 03.03.2014



10. WIRING DIAGRAM



| | | |
|--|---|--------------------|
| UTEST MATERIAL TESTING EQUIPMENT | | |
| UTS-0626 | ASTM D5558, D560, D698, D1557, D1883, AASHTO T99, T134, T135, T136, T180, T193 | Rev.2 / 12 02 2015 |
| AUTOMATIC SOIL COMPACTOR | | |

11. CUSTOMER SUPPORT - WARRANTY

UTEST technical services group is available for your technical questions. The technical service engineers are well-trained and experienced on UTEST material testing equipment and should be able to answer your questions.

It is recommended to re-read the related test standard such as EN, ASTM etc. if your questions are related with test procedures.

The guarantee period of the machine is 1 year and the product end-of-life is 10 years. Product end-of-life is the time in which all parts of the machine has to be kept in the stock of the company. Also the pictures used in this user manual are just for showing purpose. So that they may not be completely the identical to your apparatus.

UTEST
MATERIAL TESTING EQUIPMENT

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| | | |
|--|---|--------------------|
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| AUTOMATIC SOIL COMPACTOR | | |

12. NOTES