DR. WONG of Soil Pro Malaysia
Erwin Paul C. Bolivar Owner of ECOLOMA TRADING INTERNATIONAL CORP. With Mr. Thomas Yap R&D And Technical Manager of Unit Test Malaysia Mr. Jeffrey Owner Of Unit Test.
CONCRETE
DIGITAL COMPRESSION TEST (PRESS) MACHINE WELDED

UNIT TEST SCIENTIFIC SDN. BHD.

Category: CONCRETE
Product Code: DIGITAL COMPRESSION TEST (PRESS) MACHINE
DIGITAL COMPRESSION TEST (PRESS) MACHINE
1500/2000/2500/3000/4000kN DIGITAL COMPRESSION TEST (PRESS) MACHINE

Model: AD 150/EL, AD 200/EL, AD 250/EL, AD 300/EL, AD 400/EL DHR Digital Readout
The Unit Test Digital Readout Compression Test Machine has a similar feature as the gauges model UT version.

The different it has a DHR 2000 digital readout head that could connected on to computer or serial printer with a RS 232 cable for result print out or computer storage in database optionally. The DHR digital readout could also be fixed to any of our range of testing machine, including the flexural test machine.

The integral digital load pacer with a visual error brand Display enables the operator to maintain an accurate loading rate on the specimen. Optional Cement / Mortar Testing Frame 250kN or Flexural Test Frame 100kN Capacity can be fixed to all the AD or ADS digital readout Compression Test Machine by using second channel of the digital readout. All machine supplied with standard distance piece up to test 15cm cube.

Motorised Hydraulic Power Pack with Rapid Approach Pump
There are two type of hydraulic power pack either mechanical lever control type or semi-auto electronic servo motor type (silent type) same as automatic version pump unit. All the power packs are standard fitted with rapid approach pump system to allow test specimen fast contact to the machine's top platen.

Capacity 1500, 2000, 2500, 3000, 4000, 5000kN

- Available in Rigid Welded (slab) or 4 column Frame
- Designed for laboratory use.
- On screen +/- display for loading rate and setting requirement in the test.
- Password protected keypad for Calibration.
- Port for computer or printer.

- Machine Frame standard B.S. EN 12390 Annex A – Force Transfer Optional
- Calibration accuracy to B.S. EN 12390 Class 1, ASTM E4, AS 2193 Grade A
- Silent efficient semi-automatic power pack or level control type
- Suitable for main laboratory or central laboratory use

ECOLOMA TRADING INTERNATIONAL CORPORATION
#20 Doña Carmen Ave, Doña Carmen Subdivision.
Commonwealth Quezon City
DIGITAL COMPRESSION TEST (PRESS) MACHINE 4 COLUMN

UNIT TEST SCIENTIFIC SDN. BHD.

Category: CONCRETE
Product Code: DIGITAL COMPRESSION TEST (PRESS) MACHINE 4 COLUMN

DIGITAL COMPRESSION TEST (PRESS) MACHINE
(Range: 1200, 1500, 2000, 2500, 3000, 4000kN)

DIGITAL READOUT DHR
The DHR digital readout is microprocessor control instrument which is fitted as a standard to all the Unit Test Machines. The load is displayed in kN / lbs /kgf, which can be enlarged 4 times larger in the LCD display for better clear view.

DIGITAL SPECIFICATION
- Dual Range 2 Channel Compression and Flexural Mode 0-400kN x 0.1kN, 400-2000kN x 1kN for Compression Channel, 0-100kN x 0.01kN for Flexural Channel
- Force unit suitable either kN, kgf or lbf
- Sample size selectable
- Cube, or Non Standard Cylinder, Non Standard Cube or Beam Block
- Date, time, sample ref., stress (N/mm²), test number, sample size, failure load (kN), pace rate can be viewed on the display and also can download to computer or printer by using RS 232 cable on serial port
- Test result can best stored up to 200 before load to computer or printer
- In kN mode reading. 0.1kN increment up to 400kN and 1kN increment up to 1500, 2000, 2500, 3000, 4000, or 5000kN
- Large 125 x 75mm screen LCD Display
- Pace rate selection from 0.1 to 5kN/S
- Calibration through pass code
- Maximum load hold and reset auto calculation
  - In N/mm² (Mpa); p.s.i or kg/cm²
  - Accuracy: Better than +1% over the calibrated range

AD 150/EL, AD 200/EL, AD 250/EL, AD 300/EL Digital 4 Column Compression Test Machine

These machines are designed to allow testing of cylinder up to 320mm long x 160mm diameter and cube 150, 100mm square specimen. The mortar Cube (ASTM C109) 50mm also can be tested by using optional Compression Jig attachment fitted to all range of Unit Test's Compression Test Machine.
## GENERAL SPECIFICATION

<table>
<thead>
<tr>
<th>Model:</th>
<th>AD 150/EL</th>
<th>AD 200/EL</th>
<th>AD 250/EL</th>
<th>AD 300/EL</th>
<th>AD 400/EL</th>
<th>AD 500/EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (kN):</td>
<td>1500</td>
<td>2000</td>
<td>2500</td>
<td>3000</td>
<td>4000</td>
<td>5000</td>
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<tr>
<td>Low Range Sensitivity (kN):</td>
<td>0-400 x 0.1</td>
<td>0-400 x 0.1</td>
<td>0-400 x 0.1</td>
<td>0-400 x 0.1</td>
<td>0-600 x 0.1</td>
<td>0-600 x 0.1</td>
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<tr>
<td>High Range Sensitivity (kN):</td>
<td>400-1500 x 1</td>
<td>400-2000 x 1</td>
<td>400-2500 x 1</td>
<td>400-3000 x 1</td>
<td>600-4000 x 1</td>
<td>600-5000 x 1</td>
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<tr>
<td>Flexural Range (Optional Frame):</td>
<td>0-100 x 0.01 or 0-50 x 0.01</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Max. Ver. Clearance (mm):</td>
<td>320</td>
<td></td>
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<tr>
<td>Max. Horizontal Clearance (mm):</td>
<td>280/200</td>
<td>310/210</td>
<td>310/210</td>
<td>360/240</td>
<td>395</td>
<td>430</td>
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<tr>
<td>Slab/Column Frame</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Ram Travel (mm):</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Approx Weight (kg):</td>
<td>600</td>
<td>850</td>
<td>1000</td>
<td>1600</td>
<td>2000</td>
<td>3000</td>
</tr>
<tr>
<td>Overall Dimension (mm):</td>
<td>800 x 600 x 1300 (H)</td>
<td>800 x 600 x 1300 (H)</td>
<td>800 x 600 x 1300 (H)</td>
<td>800 x 600 x 1400 (H)</td>
<td>800 x 600 x 1600 (H)</td>
<td>800 x 600 x 1700 (H)</td>
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<tr>
<td>Power:</td>
<td>240V, 50Hz, 1pH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FULLY AUTOMATIC COMPRESSION TEST MACHINE
UNIT TEST SCIENTIFIC SDN. BHD.

Category: CONCRETE
Product Code: FULLY AUTOMATIC COMPRESSION TEST MACHINE

Autocon Digital Console
The automatic console is providing control for the main Compression Frame and the optional Flexural frame. LCD display has an Auto cut off system which provide longer life spend for the display. All parameters such as pace rate, sample size, time, date, etc. are entered by using the touch sensitive keypad and function key. The calibration and engineering data are protected by pass code and test result can be viewed and stored up to 300 numbers test which can be connected to optional printer or P.C by using RS 232 cable. LCD can be enlarged 4 times larger for better clear view.

Unit Test Autocon is displayed in kN, kgf or lbs and associated in mm or inches unit. The measuring system and hydraulic pump are control by microprocessor and keypad data entry. The auto rapid approach system is provided in the test and load control is based on Servo motor which is more accurate and reliable control of loading rate to the specimen.

The automatic console microprocessor system is provided in the full automatic control system for all the Unit Test Machine on 1000kN, 1200kN, 1500kN, 2000kN, 2500kN, 3000kN, and 4000kN and 5000kN capacity.
Fully Automatic Autocon Digital Specifications

- 5 stage fine time test
- 3 channel digital readout
  1. Compression mode
     a) Low range 0-400 x 0.1kN
     b) High range 400-2000, 2500, 3000 x 1kN
     High range 400-4000, 5000 x 1kN
  2. Flexural mode
     a) Flexural range 0-100 x 0.01kN or 0-250kN x 0.01kN

- Displays calculated density (kg/m)
- Large graphics LCD Display Screen, size: 100mm x 150mm in kN units
- Calibrated through keypads (password protected)
- Pace rate setting facility from 0.1 to 15.0kN per sec.
- Digital pace rate indicator for manual control
- Real time clock and calendar
- Specimen test number with automatic increment
- Automated close control of the selected pace rate
- -x-y Graphic display Force against Time (s)
  -x-y Graphic display Force against deformation (optional) for elastic modulus test
- Part for hook – up to computer and printer
  in kN made reading, 0.1kN increment up to 400kN then 1kN increment up to 2000kN, 2500kN, 3000kN, or 4000kN, 5000kN
- Screen display failure load (kN) and stress (Mpa) in engineering units, test number, pace rate (kN/s), Specimen size (mm), date and time
- Automatic closure daylight, zeroing and taring during pretest platen movement.
- Rapid throughout of concrete test
- Complete test can be carried out from the push of a button.
- Manual over-ride for the operator control
- Test result can be viewed, stored up to 300 test before requiring downloading to computer
- Print out result
- Selection of sample type and size
- Metric (kN) or imperial (lbs) and (kgf) selection
- Auto release when sample failure
- Power: 240V, 50Hz, 1pH
ITEM #4

COMPUTERIZED COMPUTER CONTROL AUTOMATIC COMPRESSION TEST MACHINE

UNIT TEST SCIENTIFIC SDN. BHD.

Product Code: COMPUTERIZED COMPUTER CONTROL AUTOMATIC COMPRESSION

COMPUTERIZED COMPUTER CONTROL AUTOMATIC COMPRESSION TEST MACHINE
1500/2000/2500/3000/4000kN Computerised Automatic Compression Test Machine

The Computerized Automatic Control Unit (Console) do not require Unit Test digital readout unit, but have a special logical data hardware card installed inside the P.C or Computer which are an integral part of the system, and can feed back all the test information from the main machine frame and control the testing accordance to the Standard requirement. Also, all the test parameter and general information can be put in by the user and display or printed out the test report. The computerized automatic console unit can be fitted to all Unit Test compression test machine, 1500, 2000, 2500, 3000 and 4000kN capacity.

General Information

- Large display computer 15” CRT monitor either built-in the console or separate unit
- All parameter such as specimen size, date, pace rate, real time, density (kg/m3), customer name, project site, or any information can be entered by using standard QWENTY key board and optional mouse.
- Information and test result can be stored in data base which can be access at anytime
- Test parameter can be display in kN, lbf or kgf associated in mm or inches
- Program software is user friendly with numerous search options for easy and quick access to data.
- Unlimited test data storage which can be access for view and print out either in list format or as individual full test report format.

- Standard built-in 2 ranges – Compression range and Flexural range
  Special built in 3 Channel Compression / Flexural Concrete, Cement, Test
- X-Y Graphic display for kN or kgf against Time(s) or deformation (mm) or stain gauge measurement (optional)
- X-Y Graphic display for kN or kgf against deformation(mm) or stain gauge measurement(optional).

Model Available:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUT 150/EL</td>
<td>1500kN Computerised Automatic Compression Test Machine</td>
</tr>
<tr>
<td>CUT 200/EL</td>
<td>2000kN Computerised Automatic Compression Test Machine</td>
</tr>
<tr>
<td>CUT 250/EL</td>
<td>2500kN Computerised Automatic Compression Test Machine</td>
</tr>
<tr>
<td>CUT 300/EL</td>
<td>3000kN Computerised Automatic Compression Test Machine</td>
</tr>
</tbody>
</table>
SOIL TESTING
ITEM #5

COMPACTION, CBR MOULDS AND ACCESSORIES

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: COMPACTION, CBR MOULDS AND ACCESSORIES

BS 1377, ASTM D1883

S 1  BS, CBR Mould body 152mm diameter x 127mm (H) Wing Nuts Type, with extension collar 152mm diameter x 51 mm (H) and Solid base plate.
S 2  BS, CBR Perforated base plate, wing nut type
S 3  BS, CBR Mould body, 152mm diameter x 127mm (HJ, Screwed Type, fixed with collar and solid base plate.
S 4  BS, CBR Perforated base plate, screwed type.
S 5  BS, CBR Cutting collar
S 6  C-Spanner to fit CBR mould
S 7  Base tool to fit CBR base plate
S 8  Compaction plug, 150mm diameter x 51 mm (H) with T Handle.
S 9  BS, Compaction Rammer 2.5kg weight
S 10 BS, Heavy Duty Compaction Rammer 4.5kg weight
S 11 BS, Standard Compaction Mould, 1-litre capacity with extension collar and base plate.
S 12 BS Heavy duty modify Compaction mould, with extension collar and base plate.
S 13 Surcharge weight 2kg Annular Type
S 14 Surcharge weight 2kg Ring Type S 15 Surcharge weight 2kg Split Type
S 16 Swell plate with adjustable stem
S 17 Swell Tripod to fixed dial gauge with in position on CBR mould
S 18 Dial gauge, 57mm diameter, 20mm Travel x 0.01 mm resolution
S 19 Dial gauge, 57mm diameter, 25mm Travel x 0.01 mm resolution
S 20 Hand Operated extruder for 4" and 6" CBR mould with 5 ton hydraulic jack.
S 20-01 Filter disc 15cm diameter, pack of 100pcs
S 20-02 CBR soaking tank for 12 sets soak CBR moulds
S 20-03 Straight edge 300mm length
S 20-04 Straight edge with both handle
SOIL COMPACTION AND CBR
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL COMPACTION AND CBR

BS 1377, 1924, ASTM D 558, D 1883, D 560, D 698

S 21
Automatic CBR/Proctor, Compactor supplied with 2.5kg and 4.5kg drop interchangeable rammer, and dropping height is adjustable from 300mm to 457mm. The base are automatic rotating equally and number of blow can be reset by digital blow counter. The compactor can accept 100mm and 152.4mm compaction mould.

Power: 240V, 50Hz, 1pH

Specification:
- Suitable for mould diameter 100mm to 152.4mm
- Blow rate: adjustable
- Size: 440 x 250 x 1400mm(H)
- Weight: 155kg approx

Accessories:
- Standard compaction mould 1 liters capacity c/w collar and solid base plate.
- S 21-01 CBR mould 152.mm diameter x 177.8mm height c/w collar and solid base plate.
- S 21-02 Universal extruder for marshall, proctor and CBR mould c/w mechanical jack and handle.
SOIL COMPACTION AND IMPACT SOIL TESTING

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

S 22
Standard: BS 1377:4, 1924:2
Electric Vibrating Hammer
Suitable for the compaction of soil proctor, CBR Test, concrete and asphalt in the percentage refusal density by using different sizes of tamping foot and need to order separately

Power: 720watt, 240V, 50hz, 1ph

ACCESSORIES:

S 22-01 Tamping foot 95mm diameter with 300mm long shank
S 22-02 Tamping foot 102mm diameter with 300mm long shank
S 22-03 Tamping foot 146mm diameter with 300mm long shank
S 22-04 Tamping foot 95mm square with 300mm long shank
S 22-05 Tamping foot 146mm square with 300mm long shank
S 22-06 Vibrating hammer support frame for rendering it stable easy to use
ITEM #8

COMPACTION AND CBR

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: COMPACTION AND CBR
S 24

In-situ and Lab CBR, Hand Operated. 50kN Capacity

With 2 speed mechanical jack, mounting bracket with ball seating attachment, set of extension rod, dial gauge holder, tripod, frame, 50kN bad ring fitted with dial gauge 12mm x 0.002mm per division and calibration certificate, datum bar assembly, penetration plunger, dial gauge 20mm x 0.01 mm, and 2nos surcharge weight 2kg.
ITEM #9

SOIL CLASSIFICATION (PLATE BEARING TEST EQUIPMENT)
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL CLASSIFICATION - I

S 49

100kN Plate Bearing Test Equipment
(BS 1377, ASTM D1194, D1195, D1196)

The set contain as follow:

- 1 set Datum bar assembly. 2.4 meter length with 4nos dial gauge 50mm x 0.01 mm and 4nos adjustable gauge holder with clamp.
- 1 set 100kN Hydraulic Jack with hand pump, fixed with precision pressure gauge 200mm diameter with 0.2kN per division. 100kN capacity and 3 meter hydraulic hose.
ITEM#10

SAMPLE EXTRUDER
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

S 57
Hand-operated Universal Extruder
with 480mm travel hydraulic jack for extrude 35mm to 152.4mm diameter sample, supplied without accessories.

Accessories:
S 57/A
U-100 (U-4) Sample tube with caps.

S 57/B
Steel Sample tube, 38mm dia x 230mm with end cap.

S 57/C
Adaptor rings for extruding 38, 100 & 150mm dia, 4" and 6" Sample.

S 57/D
Tamper for extruding sample.
DIRECT SHEAR TEST - I

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

S 59

Manually and Electrical operated Direct/Residual Shear Apparatus
BS 1377, ASTM D3080

- Microprocessor Control
- LCD Display Touch Screen
- Direct Entry Via Touch Sensitive Keyboard
- Rapid Adjustment for Return and Reset
- Fully Variable Speed Range from 0.00001 to 9.99999/minute
- Accept Specimen Up to 100mm square
- Rapid Forward/Reserve 10mm per minute for Fast Setting
- Lever arm ration 10:1
- max. Shear Effort: 10.000N
- RS 232 serial port
- Power: 240V, 50Hz, 1ph

These to determine the shear board, vertical consolidation and horizontal shear movement of the soil specimen that is enclosed within a robust metal box horizontally split into two halves and provided with a vertical plunger.

The Shear Box Apparatus premises the testing of specimens of 60mm, 70mm, 100mm, 2.5” diameter both square and circular. The speed rate is control by electronic stepper motor that can keep consistent under load stress. A rapid adjustment is also provided and safety limit switch are prevent over strain and overloading of the apparatus. The Shear Box apparatus is supplied without Shear Box assembly, Load Ring, Vertical/Horizontal of dial gauge and weight set. (Need to be order separately)
ITEM #12

DIRECT SHEAR TEST - II
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

SLOTTED WEIGHTS
Each shear box is supplied with a special calibrated weight calculated to generate an initial pressure on the sample of: 0.125kgf/sq.cm
To obtain pressure multiples of 0.125kgf/sq.cm (that is 0.250, 0.500, 1, 2, 3 and 8kgf/sq. cm), two sets of calibrated weights are available, in particular.

S 59/D
Set of calibrated weights for 50kg
Consisting of:
2 x 0.5kg calibrated weight
1 x 1kg calibrated weight
2 x 2kg calibrated weight
1 x 4kg calibrated weight
1 x 8kg calibrated weight
2 x 16kg calibrated weight
TRIAXIAL TEST APPARATUS - I

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: TRIAXIAL TEST APPARATUS - I

SOIL S 60
Digital triaxial 50kN capacity load frame STANDARDS: ASTM D2850. D4767/BS 1377:8

This machine meet all the requirements of a soil laboratory. The requirements of a soil laboratory.
it can accommodate all standard Triaxial Cells for testing soil specimens up to 50. 100 mm.
dia. by 200 mm length.
The test feed speed can easily be set thanks to a microprocessor and conversation system with
touch screen display and keyboard with user friendly Infinitesimal resolutions are, in this way,
granted in real time.
The machine comprises limit switch of position security upper and lower platen.
- Maximum load frame capacity 50kN
- Infinitesimal testing speed from 0.00001 to 9.99999mm per minute
- Speed accuracy: +/- 0.5%
- RS 232 port for connection to PC
- Vertical max. up to 810mm
- Horizontal: 340mm
- Platen diameter: 150mm
- Power supply t 240V 50 Hz 1ph
- Dimensions: 420x580x1410mm
- Weight: 110 Kg
### Item #14

**SOIL TESTING - II**

UNIT TEST SCIENTIFIC SDN. BHD.

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**Category:** SOIL TESTING  
**Product Code:** SOIL TESTING

<table>
<thead>
<tr>
<th>Optional Parts for Triaxial Cells</th>
<th>38x76 mm</th>
<th>50x100 mm</th>
<th>70x140 mm</th>
<th>100x200 mm</th>
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</thead>
<tbody>
<tr>
<td>Rubber membrane (pack of 10)</td>
<td>S 61-01</td>
<td>S 61-17</td>
<td>S 61-33</td>
<td>S 61-49</td>
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<tr>
<td>Membrane sealing ring (pack of 10)</td>
<td>S 61-02</td>
<td>S 61-18</td>
<td>S 61-34</td>
<td>S 61-50</td>
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<tr>
<td>Membrane stretcher</td>
<td>S 61-03</td>
<td>S 61-19</td>
<td>S 61-35</td>
<td>S 61-51</td>
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<td>Two Way Split former</td>
<td>S 61-04</td>
<td>S 61-20</td>
<td>S 61-36</td>
<td>S 61-52</td>
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<td>Top cap with drain</td>
<td>S 61-05</td>
<td>S 61-21</td>
<td>S 61-37</td>
<td>S 61-53</td>
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<tr>
<td>Plinth for cell</td>
<td>S 61-06</td>
<td>S 61-22</td>
<td>S 61-38</td>
<td>S 61-54</td>
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<tr>
<td>Base Adaptor</td>
<td>S 61-07</td>
<td>S 61-23</td>
<td>S 61-39</td>
<td>S 61-55</td>
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<td>Porous disc (2pcs)</td>
<td>S 61-08</td>
<td>S 61-24</td>
<td>S 61-40</td>
<td>S 61-56</td>
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<tr>
<td>Perspex plein disc (2pcs)</td>
<td>S 61-09</td>
<td>S 61-25</td>
<td>S 61-41</td>
<td>S 61-57</td>
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<tr>
<td>&quot;O&quot; ring for plinth</td>
<td>S 61-10</td>
<td>S 61-26</td>
<td>S 61-42</td>
<td>S 61-58</td>
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<td>Filter paper for base (100pcs)</td>
<td>S 61-12</td>
<td>S 61-28</td>
<td>S 61-44</td>
<td>S 61-60</td>
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<tr>
<td>Stainless core cutter</td>
<td>S 61-13</td>
<td>S 61-29</td>
<td>S 61-45</td>
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<td>Extraction plate</td>
<td>S 61-14</td>
<td>S 61-30</td>
<td>S 61-46</td>
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<td>Flaring tool</td>
<td>S 61-15</td>
<td>S 61-31</td>
<td>S 61-47</td>
<td>S 61-63</td>
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<td>Valve</td>
<td>S 61-16</td>
<td>S 61-32</td>
<td>S 61-48</td>
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</tbody>
</table>
ITEM #15
TRIAxIAL TEST APPARATUS - II
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

Air/Water Pressure System
The Pressure Panel is designed to supplied regulated pressure and water to the Triaxial Cell via the air/Water cylinder. A 250mm diameter standard test gauge. 1200KPa capacity with precision regulator valve to regulate every pressure on every outlet valve.

S 63
4 way pressure panel (wooden).
S 64
6 way pressure panel (wooden). other accessories are required to the test: S 65
Vacuum pump
S 66
De-Aired Water Tank, 19 litre capacity. Wall mounted.
S 67
Air/Water Cylinder-Bladder Type.
S 68
Air Compressor.
TRIAXIAL TEST APPARATUS - III
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: TRIAXIAL TEST APPARATUS - II

Automatic Volume Change
S 69

The Automatic Volume Change (100ml capacity) are used to Triaxial cell for continuous measurement of volume change during the test. The unit supplied with change over valve, and Displacement Transducer with Accuracy better than 0.1 ml or dial gauge 25mm x 0.01mm
ITEM #17

TRAXIAL TEST APPARATUS - IV
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING

S 71
Constant Oil/Water Pressure System

Providing continuous constant pressure from 0 to 1700kPa fully variable.

The system consists of a motor hydraulic pump, oil/water vessel, piston/spring device, 8 litres of viscosity oil.
Power: 240V, 50hz, 1ph
Weight: approx 18kg

Transducer Displacement (Strain) and Load Measurement
Various type of measuring axial displacement and load transducer can be supplied. Analogue dial gauge, Load Transducer and Digital/Displacement Transducer are comply to the accuracy in the standard and they are from the worlds leading manufacturers.

Accessories:
S 72 Digital gauge 12mm travel x 0.001mm
S 72/A Digital gauge 25mm travel x 0.01mm
S 72/B Analogue gauge 12mm travel X 0.002mm
S 72/C Analogue gauge 25mm travel X 0.01mm
S 72/D Displacement transducer 10mm travel
S 72/E Displacement transducer 25mm travel
S 72/F Pressure transducer 10bar
S 72/G Pressure transducer 25bar
ITEM #18

DIRECT SHEAR TEST - III
UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: DIRECT SHEAR TEST

SHEAR BOXES
- lower element with fixed base and lifting lugs
- upper element with loading pad and handles
- two perforated retaining plates
- connection pins
- two porous discs

N.B
The 100 x 100mm shear box requires a large Housing and a special adapter must be use.
CALL FOR ENQUIRY

ECOLOMA TRADING INTERNATIONAL CORPORATION

#20 Doña Carmen Ave, Doña Carmen Subdivision.
Commonwealth Quezon City

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ITEM #19

SOIL TESTING - IV

UNIT TEST SCIENTIFIC SDN. BHD.

Category: SOIL TESTING
Product Code: SOIL TESTING
S78

Standard Colour Chart (Aggregates).  
ASTM C40
Organic impurities in soils and fine aggregates can be determine by using the colour chart. The set come with 5 organic colour.
ASPHALT
ITEM #20

ASPHALT-PREMIX - II

UNIT TEST SCIENTIFIC SDN. BHD.

Category: ASPHALT-PREMIX, BITUMEN
Product Code: ASPHALT-PREMIX - II

Standard: ASTM D2172, EN 12697, 13108

TM 8 Centrifuge extractor 1500g capacity
for determining of bitumens % in bituminous mixtures, consists of a selectable speed digital control that automatic fast stop bowl rotation at the
Power: 240V, 50hz, 1ph

TM 8-01  Identical to TM 8, but with 3000gm capacity and rotation speed 2600rpm
CEMENT AND MORTAR
DIGITAL HUMIDITY CABINET
UNIT TEST SCIENTIFIC SDN. BHD.

Category: CEMENT AND MORTAR
Product Code: DIGITAL HUMIDITY CABINET

D8
Digital humidity cabinet
EN 196-1, ASTM C31, ASTM 0191, ASTM 0192

This humidity cabinet is designed to store mortar samples at constant temperature and humidity prior to curing in water or physical test. Both the temperature and humidity value are input by user easily and option to switch on or off the recording chart for future reference. The cabinet has two layers of insulation, that is the main outer door and inner transparent door to ensure the temperature and humidity remain consistent for the duration of test. Its main water tank has a sensor to alert the user in case the water level runs low.

Power supply : 220 ~ 240 VAC, Single phase, 50 Hz
Internal dimension (mm) : 540 Width x 540 Depth x 1100 Height
External dimension (mm) : 740 Width x 950 Depth x 1870 Height
Temperature range : 15 ~ 30c
Humidity range : 60 ~ 99 %RH
Weight : 300 kg
MIXING AND MOULDING EQUIPMENTS - II
UNIT TEST SCIENTIFIC SDN. BHD.

D 7

Category: CEMENT AND MORTAR
Product Code: MIXING AND MOULDING EQUIPMENTS - II

D7
Unit Test Automatic / Manual Mortar Mixer,
EN 196-1, EN 196-3 and BS 3892

Used for mixing cement mortar, 5 liters capacity Stainless Steel Bowl with Stainless Steel Beater. The beater revolves about its axis and is driven around the bowl in planetary motion. Two speed of mixer blade can be selected)Auto or Manual). Low speed is 140rpm for blade and 62rpm for planetary movement. High speed is 285rpm and 125rpm respectively. The unit fixed with automatically till into the mixing bowl after a period of 30 second after 60 second, it will automatically change to High Speed. The digital timer is displayed the mixing program(Scheme) accordance to EN 196-1 requirement. Also can be manually operated control of low and high speed by sensor touch key pad.

ACCESSORIES AND SPARES:
D 7/A Stainless Steel beater, with fitting accordance to EN 196-1
D 7/B Stainless Steel bowl, 5 liters capacity accordance EN 196-1
D 7/C Scraper made from plastic 200mm long
AGGREGATES
ITEM #23

RAPID METHOD BY UTS PAN TYPE MOISTURE TESTER

UNIT TEST SCIENTIFIC SDN. BHD.

Category: AGGREGATES, ROCK AND SAND
Product Code: AGGREGATES AND SAND - I

AGGREGATES AND SAND

RAPID METHOD BY UTS PAN TYPE MOISTURE TESTER

STANDARDS: ASTM D4944, BS 6576, AASHTO T 217

- Fast, accurate and reliable result
- Portable, non-electric
- Sample weight 22gm
- Simple and easy to use
- Easy to clean, low maintenance

MT 30

It has been found that the moisture content of soil, sand and aggregate can be obtained quickly and reasonably accurately using the UTS Moisture Tester. The test technique is based on the fact that water will react with moisture reagents to form a gas and that the quantity of gas formed is directly proportional to the water present, providing a surplus of the chemical is used in the test. The quantity of gas is indicated on a built-in pressure gauge which is calibrated in percentage of moisture. Each instrument is supplied complete in a carrying case fitted with a balance for weighing the sample, one bottle of reagents, brush, cloth, scoop, steel ball (2 nos), weight with hook 100gm, operation manual and calibration certificate.

IMPORTANT: MOISTURE REAGENTS IS A HAZARDOUS SUBSTANCE. FOR EXPORT ORDERS THE CONTAINER OF MOISTURE REAGENTS IS REMOVED FROM THE CASE AND PACKED SEPARATELY. ATTENTION IS DRAWN TO THE LIMITATION IMPOSED ON TH FORM OF TRANSPORTATION.

ONLY IN SPECIAL CIRCUMSTANCES CAN MOISTURE REAGENTS BE TRANSPORTED BY AIR.
ITEM #24

DRYING OVEN
UNIT TEST SCIENTIFIC SDN. BHD.

Category: AGGREGATES, ROCK AND SAND
Product Code: AGGREGATES AND SAND - II

Thermostatic Control Oven

ASTM C 127, C 136, D 558, D 698, D 1557, D 1559, EN 932-5, EN 1097-5, BS 1377, BS 1924

Laboratory ovens, specially designed for drying, baking, conditioning and moisture determination and etc.

➢ Coated with hard-wearing paint on outer casing, internal galvanised as standard and stainless steel or aluminum also available upon request.
➢ Heat generated by ‘Precision Thermal Elements’ which are positioned below floor chamber.
➢ Operating temperature range from 40° to 200° C or higher upon request.
➢ Optional: Dial thermometer 0-250° C can be position at front panel.
➢ Complete with stainless steel shelves that can be position at various height and weight (minimum 5kg sample), analogue thermostat (2 units) for precision temperature setting, on/off switch, pilot light.
➢ Double-wall, sturdy, with 50mm thick glass fibers insulation.
➢ D series identical similar to analogue model but fitted with Digital Readout and built in timer as standard.
➢ Optional: For analogue model only, timer controller 0-24 hours or higher upon request.
➢ All supplied complete with factory calibration certificates upon request.
➢ Others sizes available upon request.

All supplied complete with factory calibration certificates
## General specification

<table>
<thead>
<tr>
<th>Model</th>
<th>U 1</th>
<th>U 2/F</th>
<th>U 3/F</th>
<th>U 4/F</th>
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<tbody>
<tr>
<td>Capacity (litre)</td>
<td>53</td>
<td>120</td>
<td>225</td>
<td>425</td>
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<tr>
<td>External Dimension (mm) H x W x L</td>
<td>803 x 592 x 460</td>
<td>900 x 625 x 700</td>
<td>1037 x 1098 x 566</td>
<td>1130 x 1125 x 781</td>
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<tr>
<td>Internal Dimension (mm) H x W x L</td>
<td>350 x 450 x 330</td>
<td>440 x 475 x 570</td>
<td>570 x 957 x 435</td>
<td>680 x 980 x 645</td>
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<tr>
<td>Temperature Range (°C)</td>
<td>40-200</td>
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<td>40-200</td>
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<tr>
<td>Power Rating (w)</td>
<td>1000</td>
<td>2100</td>
<td>2100</td>
<td>3000</td>
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<tr>
<td>Shelves Supplied</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Fan Supplied (Blower)</td>
<td>Optional</td>
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<td>Fan</td>
<td>Fan</td>
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<tr>
<td>App. Weight (kg)</td>
<td>45</td>
<td>60</td>
<td>90</td>
<td>140</td>
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<tr>
<td>Power</td>
<td>240V 50Hz 1ph</td>
<td>240V 50Hz 1ph</td>
<td>240V 50Hz 1ph</td>
<td>240V 50Hz 1ph</td>
</tr>
</tbody>
</table>
ITEM #25

TEST SIEVES
UNIT TEST SCIENTIFIC SDN. BHD.

Category: AGGREGATES, ROCK AND SAND
Product Code: AGGREGATES AND SAND

Test sieves

STANDARDS: **EN 933-1, EN 923-2**/ ISO 3310-1, ISO 3310-2, ISO 565/
ASTM E 11

All Sieves are made with Stainless steel woven wire and frame and meet
International Specifications.
All Sieves are available in the following diameters 200 - 250 - 300 - 315 -
400 - 450 mm and 8" - 12"
All sieve aperture is clearly marked on the metallic label. comprising the
serial number for the identification and traceability of the sieve.
ITEM #26

AGGREGATES AND SAND - III
UNIT TEST SCIENTIFIC SDN. BHD.

Category: AGGREGATES, ROCK AND SAND
Product Code: AGGREGATES AND SAND - III

T 1
BS 1377, ISO 3310, EN 932
Motorised Test Sieve Shaker
c/w timer controller 0 - 60 min. Can accept up to 8nos of 200mm
diameter sieves or 6nos of 300mm diameter sieves with lid and receiver.

Power: 240V, 50hz, 1ph
Weight: 80kg
ITEM #27

AGGREGATES AND SAND - V
UNIT TEST SCIENTIFIC SDN. BHD.

Category: AGGREGATES, ROCK AND SAND
Product Code: AGGREGATES AND SAND - V

T 8

T8 Los Angeles Machine, ASTM C131

Robustly designed and contracted from Heavy Steel Cylinder, and provides excellent and accurate result of aggregate to resistance from heavy abrasion.

➢ Horizontal axis rotation mounted on a substantial base frame
➢ Rotation speed 30 to 33rpm
➢ Fitted with revolution digital counter
➢ Supplied with 12 abrasive charges and steel tray for specimen unloading.(ASTM C131)
➢ Power: 240V, 50Hz. I pH