

**AUTOMATIC CBR & MARSHALL  
TEST MACHINE**



**SOIL**

## Automatic CBR And Marshall Test Machine



### PRODUCT MODEL

S4610 | Automatic CBR And Marshall Test Machine, 220-240V 50/60 Hz

### STANDARDS

EN 12697-34, EN 13286-47 | ASTM D1559, ASTM D6927, ASTM D1883, ASTM D-2166 | AASHTO T193

### INFORMATION

Manufacturer : TESTMAK INS.LAB.MAK.SAN.VE TİC. PAZ. İTH. İHR. LTD. STİ

Country of Origin : TURKEY

Product Name: Automatic CBR And Marshall Test Machine, 220-240V 50/60 Hz

Code of Product: S4610

### DESCRIPTION

The Multi Speed Universal Electromechanic Test Machine load frame provides compression/extension testing for a number of geotechnical tests that must have accurate control of the rate of displacement during loading. The unit can perform unconfined compression, CBR and Marshall tests with accessories.

The base unit includes a stepper motor, lead screw, vertical tension rods and crosshead, displacement transducer, electronic controls and network communications. Versions of the unit are available to test loads up to 50 kN . Displacement rates can be set to any value between from 0.05 to 55 mm/min.

## Automatic CBR And Marshall Test Machine

The base unit can run in stand-alone mode without a computer. It includes built-in data acquisition and display capability. Sensor readings are displayed in SI or English units and stored in memory. Optional software running in Windows® completely automates the test, reducing the data and preparing test results.

### Applicable Test Standards

- EN 12697-34, ASTM D1559 and ASTM D6927 Standard Method for Marshall
- EN 13286-47, ASTM D1883 and AASHTO T193 "Standard Method for CBR.
- ASTM D-2166, AASHTO T-208 Unconfined Compression Testing of Soils

The universal tester for Marshall and CBR tests is computer controlled and shall utilize the latest technology available at the time of supply.

### The Universal tester is supplied with:

- Computer controlled and utilize the latest technology available at the time of supply.
- Load cell(s) and displacement transducer(s).
- Hydraulic sample extruder for sample diameter range of 35 – 152.4 mm
- A complete set of CBR equipment to be used with 3 CBR moulds as in table below
- Equipped with an integrated transducer calibration facility.
- Equipped with CE Emergency Stop button.
- Supplied with all installation, operating and safety instructions in English.
- Have a digitally controlled, stand-alone type load frame
- Have load capacity of at least 50 kN
- Utilize closed loop speed control so that test speeds be infinitely variable between 0.05 and 55 mm/min to meet standard requirements of the different tests.
- Automatically execute the selected tests (Marshall, CBR and any other )
- Equipped with rapid approach and return to minimize time between testing of specimens
- Machine is equipped with flat touch screen display with real time data and graph capability.
- The Machine have minimum 4 Channel on-board (built-in) data acquisition
- Possess on-board (built in) hard drive for internal data storage data interfaces for standard/ mini/micro Ethernet, USB.
- Supplied with all standard accessories required to perform:
- California Bearing Ratio tests to EN 13286-47, ASTM D1883 and AASHTO T193
- Marshall tests to EN 12697-34, ASTM D1559 and ASTM D6927

<b>Dimensions</b>	470x550x1210 mm
<b>Weight</b>	90 kg
<b>Power</b>	220 V, 50/60 Hz, 1phase



**TM TEST MAK**  
**MATERIAL TEST EQUIPMENTS**

Telephone : +90 312 395 36 42  
Fax : +90 312 395 36 01

Website : [www.testmak.com](http://www.testmak.com)  
E-Mail : [info@testmak.com](mailto:info@testmak.com)

Koca Sinan Industrial Sites 1183 Street No:  
40 06370 OSTIM / ANKARA / TURKEY