

CONCRETE TEST HAMMER

The concrete test hammer is used to carry out nondestructive tests on concrete specimens, and gives an immediate indication of the compressive strength of the concrete using the supplied calibration curve. The hammer produces an impact energy of .225 mkg and has a capacity range of approximately 1400 to 8000 psi. The hammer is supplied with calibration chart, strong plastic container, and an abrasive stone.



| MODELS | DESCRIPTION | STANDARDS |
|--------|-------------------------------|------------|
| C7821 | CONCRETE TEST HAMMER, SCHMIDT | ASTM C-805 |
| C7827 | CONCRETE TEST HAMMER, METRIC | |
| C7823 | CONCRETE TEST HAMMER, MANUAL | |

| ACCESSORIES | DESCRIPTION |
|-------------|---------------------|
| C7828 | CALIBRATION ANVIL |
| C7829 | EXTRA RUBBING STONE |

SOIL CEMENT COMPACTION MACHINE

The soil cement compaction machine is used for laboratory preparation of 2.8" (71mm) dia x 5.6" (142mm) high compressive strength specimens of soil cement. The specimens are formed using the **C7921** preparation mold assembly. The mold assembly is furnished with a 2.8" x 9" seamless steel mold and a 6" mold extension with collar, machined top and bottom pistons, two 1/16" thick aluminum separating disks and a spacer clip. The soil cement compaction machine has a controlled dropping-weight device of 15 lb. (6.8 kg) for striking the top piston.

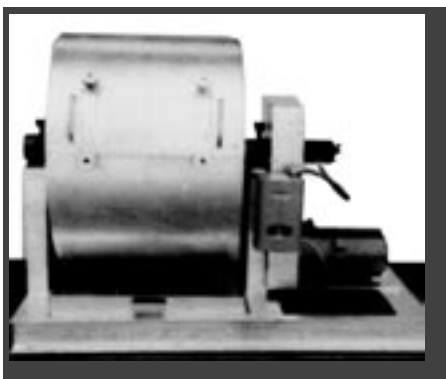


| MODELS | DESCRIPTION | STANDARDS |
|--------|--------------------------------|---------------------|
| C7925 | SOIL CEMENT COMPACTION MACHINE | ASTM D-1632, D-1633 |

| ACCESSORIES | DESCRIPTION |
|-------------|-------------------------------|
| C7921 | PREPARATION MOLD ASSEMBLY |
| C7923 | TAMPING ROD, STEEL 1/2" X 20" |
| C7928 | CAPPING FIXTURE |
| C7955 | SCRATCH BRUSH |

LOS ANGELES ABRASION MACHINE

The L.A. abrasion machine is used to test crushed rock, slag, and gravel for their resistance to abrasion. The unit has a welded steel drum that has a 28" I.D. and is 20" long. The drum and the frame are welded to ensure strength and have a tight fitting cover and gasket. The drum is rotated at 30-33 RPMs by a 1 hp motor that is run through a gear reduction unit. The control panel has start, stop, and reset buttons. There is a manually set counter that stops the rotation at a preset number of revolutions. The drum can be turned by hand for ease in loading. The unit is furnished with a catch pan and 12 steel balls.



| MODELS | DESCRIPTION | STANDARDS |
|--------|-----------------------------------|----------------------------------|
| C8101 | LA ABRASION MACHINE, 110V / 60 Hz | ASTM C-131, C-535 AASHTO T-96 |
| C8102 | LA ABRASION MACHINE, 220V / 50 Hz | |
| C8103 | LA ABRASION MACHINE, 230V / 60 Hz | |

| ACCESSORIES | DESCRIPTION |
|-------------|----------------------|
| C8121 | STEEL BALLS, PER DOZ |

CALIFORNIA BEARING RATIO (CBR) FOR LAB

For determining the California Bearing Ratio (CBR) of soils and to evaluate the relative quantity of subgrade and subbase soils and some base course materials. Soil samples are mixed with varying quantities of water, compacted in a mold by a tamper, weighed and the dry compacted density determined. A perforated plate with adjustable stem and surcharge weights are placed on the specimen and the mold and weights soaked in water. The initial height and the height after given periods of soaking are determined by a micrometer dial mounted on a tripod and the sample swell reported as the percentage of the initial height. The sample is penetrated by a piston at a constant rate and the load required for penetration to different depths is recorded.

MANUAL CBR LOADING MACHINE

The **S4242** determines bearing ratio of soil when compacted and tested in the lab. It compares the penetration load of the soil to that of a standard material. The Manual CBR Loading Machine utilizes a three speed mechanical jack for test speeds and for rapid travel. The machine meets ASTM D-1883 and AASHTO T-193 when the operator accurately cranks to the required test speed of 0.05"/min. The loading machine is furnished with a 10,000 lbf calibrated load ring with dial indicator. If the soils vary widely in strength, it is advisable to order extra lower capacity load rings such as the **G3832** (2,000 lb) or a **G3836** (6,000 lb). The **S4111** CBR cylinder mold is 6" ID x 7" high. The perforated base is 8" x 8" x 3/8" plated steel and is fitted with threaded rods and thumb nuts.

MOTORIZED LOADING MACHINE

The **S4251** & **S4252** Motorized Loading Machine is very similar in design and application to the **S4242** except that it is motorized with preset speed selections. The motor drives the machine at a constant rate of 0.05"/min. The **S4252** is 220V/50Hz version.

MASTER-LOADER MULTI-USE COMPRESSION TESTER

The **S4254** Master Loader handles a variety of tests with one load frame (Marshall, CBR, Unconfined, Unconsolidated undrained triaxial). Bench mounted unit features pre-set speed selections and accessories. Variable speed setting allows stepless adjustments from 0.002" to 2.000" per minute.

| MODELS | DESCRIPTION | STANDARDS |
|--------------|---|---|
| S4242 | CBR LOADING MACHINE, MANUAL | ASTM D-1883, D-4429 / AASHTO T-193 |
| S4251 | CBR LOADING MACHINE, MOTORIZED, 110V / 60 Hz | |
| S4252 | CBR LOADING MACHINE, MOTORIZED, 220V / 50 Hz | |
| S4254 | MASTER LOADER MULTI USE COMPRESSION TESTER, 120V / 60 Hz | ASTM D-1633, D-1883, D-2166, D-1559, / AASHTO T-193, T-208, T-245, / BS 1377 |

| ACCESSORIES | DESCRIPTION |
|--------------|--|
| C5041 | CURING TANK |
| G3103 | MICROMETER DIAL GAUGE, 1" TRAVEL IN .001" INCREMENTS |
| G4421 | SOLUTION BALANCE, 20 KG |
| G6091 | OVEN, 28" X 24" X 20" CHAMBER |
| L1118 | MIXING BOWL, 13-1/4" DIA. |
| L1642 | BOX, ALUMINUM, 2" DIA, 1 DOZ |
| L3652 | STRAIGHT EDGE, PLATED STEEL, 12" |
| S4111 | CBR, MOLD, W/ COLLAR & BASE |
| S4112 | LBR TEST MOLD, 6" ID X 6" H |
| S4121 | SPACER DISC, 2.416" H |
| S4122 | SPACER DISC, 1" H (VA SPECS) |
| S4135 | FILTER PAPER FOR MOLDS, 100 / PKG |
| S4141 | SWELL PLATE, W/ STEM & NUT |
| S4151 | STEEL WEIGHT, 5 LB ANNULAR |
| S4152 | STEEL WEIGHT, 5 LB SPLIT |
| S4155 | SURCHARGE WEIGHT, STEEL SLOTTED |
| S4161 | DIAL HOLDER TRIPOD, LESS DIAL |
| S4162 | TRIPOD, BRASS C.O.E. DESIGN |
| S4182 | PISTON, STATIC LOAD, W/ SCALE |



S4254