

## 22 CEMENT & CONCRETE

### 400 ML MEASURE

The **C1152** is a calibrated 400 ml measure used to determine air content of hydraulic cement mortar. Cylindrical with 3" I.D., approximately 3-15/32" depth.



MODELS	DESCRIPTION	STANDARDS
<b>C1152</b>	400 ML MEASURE	ASTM C-185, C-780 / AASHTO T-137

ACCESSORIES	DESCRIPTION
<b>C1155</b>	6" RUBBER TAMPER
<b>C1157</b>	6" MAPLE TAPPING STICK
<b>L3652</b>	12" STEEL STRAIGHT EDGE, ONE EDGE BEVELED

### MORTAR BAR CONTAINER

The **C1251** mortar bar container is used for testing the potential reactivity of cement mortar. The container I.D. dimensions are 9" x 11" x 15-1/2" and is constructed from stainless steel. The tight-fitting cover prevents moisture loss from mortar bars. The container supports up to 36 vertically placed bars.



MODELS	DESCRIPTION	STANDARDS
<b>C1251</b>	MORTAR BAR CONTAINER	ASTM C-227

### AUTOCLAVE

The **C1301** Autoclave uses accelerated means of estimating delayed expansion of Portland cement caused by hydration of CaO and MgO. The test bars are exposed to controlled steam pressure and corresponding constant temperature. The Autoclave produces 60-350 psi range of pressures and consists of steam vessel, pressure regulator, pressure gauge, air vent valve and safety valve. The chamber overall dimensions are 17" x 48" x 28" (431mm x 1219mm x 711mm) and the I.D. is 6-1/8" x 16". The maximum power demand is 1700W. The unit is also furnished with a thermometer, wrench and 100 gaskets.



MODELS	DESCRIPTION	STANDARDS
<b>C1301</b>	AUTOCLAVE	ASTM C-151 / AASHTO T-107

ACCESSORIES	DESCRIPTION
<b>C1303</b>	SPECIMEN HOLDER, FOR 8 SPECIMENS
<b>C1304</b>	HEATING ELEMENT
<b>C1305</b>	EXTRA GASKETS, PER 100
<b>C1322</b>	MOLD 1" X 1" X 10", DOUBLE

## COMPARATOR, STANDARD 10" EFFECTIVE GAUGE LENGTH



C1311

C1311D

These Comparators are designed to measure standard 10" effective gauge length changes of hardened cement paste, mortar and concrete prismatic specimens. The indicator is mounted on a sturdy upright support attached to solid triangular base. The **C1311** features a sensitive dial indicator with a continuous dial with 0-10 reading and a total range of .400" and .0001" (.0025mm) divisions. The **C1311D** features a an easy to read digital indicator which measures inches and metric can be changed at the push of a button; .500" (12.6mm) range and .0001" (.0025mm) divisions. Also included with the comparators are stationary and movable anvils designed to fit the gauge studs that are cast on test specimens and an invar reference bar.

MODELS	DESCRIPTION	STANDARDS
C1311	COMPARATOR	ASTM C-151, C-157, C-227, C-311, C-341, C-342, C-452, C-490, C-596 / AASHTO M-210, T-107, T-160
C1311D	COMPARATOR, DIGITAL INDICATOR	

## CEMENT BLEEDING APPARATUS



Used to determine bleeding rate and bleeding capacity of cement paste and mortar by direct and continuous procedure. Includes noncorrosive metal container for paste or mortar, collecting ring, support stand and necessary glassware. Rubber-covered double V-jaw burette clamp holds stopcock in position; single rubber-covered jaw clamp supports the burette and funnel assembly.

MODELS	DESCRIPTION	STANDARDS
C1551	CEMENT BLEEDING APPARATUS	ASTM C-243

## CONCRETE COMPRESSION MACHINE

Hogentogler introduces a new line of fully automatic, one-touch design Concrete Compression Testing Machines. Each four column load frame is designed and individually tested for maximum stability and alignment to avoid tension failure during testing. This process also ensures correct center loading. The precise spherical upper platen is large in diameter for optimum testing results. The unit is furnished with standard platens for 3" x 6", 4" x 8" and 6" x 12" cylinders. The heavy duty motorized hydraulic power pack with rapid approach provides accurate pressure loads while the automatic over extension protection increases the lifetime of the o-rings. A variety of digital readouts are available including simple display panels to high end computer controlled storage devices. Built in stand and safety guards creates a safe and ergonomically correct atmosphere for the operator.



C4626-C4628



C4630-C4646

MODELS	DESCRIPTION	LOAD	STANDARDS
C4626	COMPRESSION MACHINE, W/ PEAK HOLD	300,000 LB	ASTM C-39, C-109, C-78, C-293, C-140, C-496, E-4, E-447 BS-1610 BS-1881
C4627	COMPRESSION MACHINE, W/ PEAK HOLD & MEMORY		
C4628	COMPRESSION MACHINE		
C4630	COMPRESSION MACHINE, W/ PEAK HOLD	400,000 LB	
C4631	COMPRESSION MACHINE, W/ PEAK HOLD & MEMORY		
C4632	COMPRESSION MACHINE		
C4636	COMPRESSION MACHINE, W/ PEAK HOLD	500,000 LB	
C4637	COMPRESSION MACHINE, W/ PEAK HOLD & MEMORY		
C4638	COMPRESSION MACHINE		
C4644	COMPRESSION MACHINE, W/ PEAK HOLD	600,000 LB	
C4645	COMPRESSION MACHINE, W/ PEAK HOLD & MEMORY		
C4646	COMPRESSION MACHINE		