

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		

CUBE MOLDS

These molds are for preparing 2" square cement mortar specimens for compressive strength testing. The molds are three gang models that are available in bronze and stainless steel construction. They are precision machined for a tight fit. They have quick acting clamps and are easily separated into two sections for quick specimen removal. Please note the **C2020** does not meet ASTM or AASHTO standards. The **C2035** 3-gang mold is used to prepare 2" diameter by 4" long cylindrical cement mortar specimens for compressive strength testing. The molds are three gang models that are available in bronze and stainless steel construction. They are precision machined for a tight fit. They have quick acting clamps and are easily separated into two sections for quick specimen removal.



MODELS	DESCRIPTION	STANDARDS
C2020	POLYETHEYLENE PLASTIC MOLD W/ DETACHABLE BASE	N / A
C2021	FORGED BRONZE W/ DETACHABLE BASE	ASTM C-109 / AASHTO T-106
C2021A	BRASS W/ DETACHABLE BASE	
C2022	FORGED BRONZE W/O DETACHABLE BASE	
C2025	FORGED BRONZE W/ BASE & TOP PLATE	ASTM C-31, C-39, C-192
C2035	3-GANG CYLNIDER MOLD, BRONZE	
C2023	3-GANG CYLNIDER MOLD, ST. STL. W/ DETACHABLE BASE	

ACCESSORIES	DESCRIPTION
C1155	TAMPER, NON-METALLIC
C2027	COVER PLATE FOR C2021 & C2023
C2028	CUBE MOLD COVER PLATE, BRASS

CUBE MAKER KIT

The **C2041** Cube Maker Kit for 2" mortar cubes is the most economical mold system available for reproducible and accurate results. The mold is constructed of a durable brass frame with removable polypropylene water tight disposable liners. The mold also requires no cleaning, just insert a new liner. Also included with the kit, are capping accessories.



MODELS	DESCRIPTION
C2041	CUBE MAKER KIT FOR 2" MORTAR CUBES

ACCESSORIES	DESCRIPTION
C2042	EXTRA CUBE MOLD
C2043	EXTRA LINERS, 198 COUNT
C2044	RETAINER CAPS, SET OF 2
C2045	COMPRESSION PADS, SET OF 4
C2052	MOLD RELEASE, SILICONE, 18 OZ

BLAINE FINENESS DEVICE



The **C2301** Blaine Fineness Device determines fineness of Portland cement in terms of specific surface expressed as total area in square centimeters per gram of cement. The device consists of a calibrated U-tube manometer, ground glass joint, stainless steel test cell and plunger, rubber aspirator bulb and perforated disc. Includes 8 oz. bottle of red manometer fluid, filter paper, wood block for holding test cell during filling and funnel.

MODELS	DESCRIPTION	STANDARDS
C2301	BLAINE FINENESS DEVICE	ASTM C-204 / AASHTO T-153

ACCESSORIES	DESCRIPTION
C2302	CELL AND PLUNGER
C2304	EXTRA FILTERS, 500/PK
C2305	STANDARD SAMPLE, 20 VIALS
C2309	EXTRA MANOMETER TUBE

WAGNER TURBIDIMETER

For determining the fineness of Portland Cement by the turbidimeter. The turbidimeter is an apparatus used for measuring the light that passes through a suspension of pulverized material dispersed in a suitable medium. A Microammeter measures current generated in the cell; indicated reading is measure of turbidity of the suspension. Includes photoelectric cell and light source in metal cabinet, timing burette and stand, wet sieving assembly including gauge and spray nozzle, microammeter, 3 calibrated flasks, 4 test tubes, stirring device and instruction book. Available in 110V/50-60 Hz (**C2401**) or 220V/50Hz (**C2402**). Please specify type needed.



MODELS	DESCRIPTION	STANDARDS
C2401	WAGNER TURBIDIMETER, 110V / 60 Hz	ASTM C-115 / AASHTO T-98
C2402	WAGNER TURBIDIMETER, 220V / 50 Hz	

FLOW TABLES

These flow tables have many different applications which include compression strength and air content tests of cement mortar; flow tests of hydraulic cement mortars; consistency test of magnesium oxychloride cements; flexural strength test for bond strength of mortar to masonry units. The flow table is available in manual (**C2601**), motorized (**C2611** & **C2612**), and motorized with counter (**C2615** & **C2616**). All models have a table top which is cast bronze and 10" in diameter. The tables have a cam and shaft set for a 1/2" drop. Manual type has a hand wheel while the motorized types are available in 110V/60Hz or 220V/50Hz (please specify model needed) has a speed of about 100 rpm. The motorized flow tables with automatic counter stops the motor after a preset number of drops. The table is furnished with a cast bronze flow mold, but does not include the flow caliper.



C2601

C2615

MODELS	DESCRIPTION	STANDARDS
C2601	FLOW TABLE, MANUAL	ASTM C-87, C-109, C-110, C-185, C-230, C-243, C-348, C-598 / AASHTO T-71, T-106, T-137, M-152
C2611	FLOW TABLE, 110V / 60 Hz	
C2612	FLOW TABLE, 220V / 50 Hz	
C2615	FLOW TABLE W/ COUNTER, 110V / 60 Hz	
C2616	FLOW TABLE W/ COUNTER, 220V / 50 Hz	

ACCESSORIES	DESCRIPTION
C2618	EXTRA CONE MOLD
C2621	CALIPER FOR PERCENT FLOW

CEMENT CALORIMETER



The **C2751** and **C2752** Cement Calorimeters are used for determining the heat of hydration of hydraulic cement. This is achieved by measuring the difference between the heat of solution of dry cement and the heat of solution of a separate sample partially hydrated for 7 to 28 days. A constant stirrer maintains a uniform temperature throughout the liquid. The Calorimeter consists of a vacuum jar, insulated container, thermometer and electric stirrer. Calorimeter is available in both 110V/60Hz (**C2751**) and 220V/50Hz (**C2752**) (please specify type needed).

MODELS	DESCRIPTION	STANDARDS
C2751	CEMENT CALORIMETER, 110V / 60 Hz	ASTM C-186
C2752	CEMENT CALORIMETER, 220V / 50 Hz	

HUMIDITY CABINET

The **C2931** Humidity Cabinet is used for storing cement mortar specimens at uniformly controlled temperatures and high relative humidity. The interior is stainless steel and the exterior is enameled with an inner inspection glass door. The humidity cabinet is insulated by 3" thick glass wool. The temperature range is from room temperature to 70° C. The humidity range is from 95% to saturation. The I.D. is 24" x 17" x 16" and the O.D. is 35" x 27" x 35".



MODELS	DESCRIPTION	STANDARDS
C2931	HUMIDITY CABINET, 110V / 60 Hz	ASTM C-87, C-109, C-190, C-191

TUBE SAMPLERS

The **C3121** and **C3125** are used for sampling hydraulic cement. The **C3121** is the bulk sampler which has two slotted telescoping polished brass tubes with registered slots (with partitions) that open or close by rotation of the inner tube, the outside one having a sharp penetration point. The sampler is 1-3/8" dia x 63" long. The **C3125** package sampler is a brass tube with diagonal end, air hole and a hardwood handle. The unit is 1-1/4" dia x 28-3/4" long.



MODELS	DESCRIPTION	STANDARDS
C3121	BULK TUBE SAMPLER	ASTM C-183 / AASHTO T-127
C3125	PACKAGED TUBE SAMPLER	