

Trailer Mounted Coring Drill



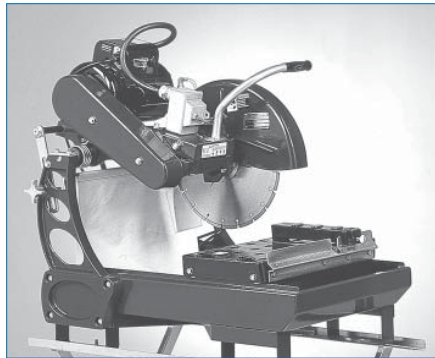
C-82212

The gasoline engine powered Coring Drill is mounted on a single axle custom trailer with a built in 200 gallon water supply tank. The trailer has a 3500 lb rating and is provided with a tongue jack and two rear levelers to provide a stable drilling platform. Designed to use coring bits up to 16 in (41 cm) diameter, the drilling system has 21 in (53 cm) column travel.

C-822 Trailer mounted Core Drill, 15 hp gasoline engine 2850 lb

Masonry Saw

The Electric Masonry Saw accepts a 14-in diameter blade with a 1-in diameter arbor. The saw can be used for wet or dry cutting of concrete, cores, blocks, rock and masonry. A 5-hp gasoline engine version available upon request. Blade not included.



C-825

C-825 Electric Masonry Saw, 110/220 V, 60 Hz 145 lb
C-82515 Electric Masonry Saw, 220 V, 50 Hz 145 lb

Related Items

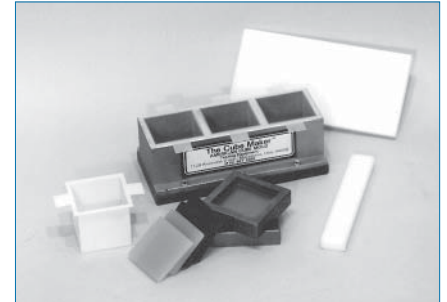
C-82520 Diamond masonry blade, 14 x 0.110 in
C-82521 Diamond blade, wet / dry, 1 in arbor

Specifications for Electric Masonry Saw

Electric Motor: 2.5 hp, w/ dual voltage switch for 115 or 220 V, 60 Hz, 15 Amp. operation
Blade Capacity: 14 in (356 mm), 1 in (25 mm) arbor
Stand: Adjustable, removable legs
Water Stand: Sloping water pan directs water to rear of saw. Adjustable water supply uses circulation pump
Cutting Table: 16 1/2 in x 14 in (419 x 355 mm) with lockable cart wheels for greater stability

Cube Mold Set

The Cube Mold is used to prepare 2-in (5.1 cm) cube specimens of high strength materials for compression testing, such as lime, Portland cement, mortars, capping compound and gypsum. The three gang, in-line mold is made from cast aluminum and employs polyethylene liners to contain the samples and eliminate mold clean-up. Sold as a kit. Order C-23707 for replacement plastic liners. Meets applicable standards.



C-237

| | | |
|------------------|--------------------|--|
| C-237 | 2 in Cube Mold Set | 12 lb |
| Includes: | C-23702 | Mold Frame, Brass, 2 in with 27 liners |
| | C-23703 | Retainer Caps, set of 2 |
| | C-23704 | Compressive Pads, set of 4 * |
| | C-23706 | Cover Plate |
| | C-238 | Hard Rubber Tamper |

Related Item

C-23707 Plastic Liners, box of 198

* Square capping pads are supplied in two (2) strengths. Red pads will withstand strengths up to 4000 psi and amber pads are capable of withstanding strengths in excess of 4000 psi.

Plastic Cube Mold

The Plastic Cube Mold is an economical polyethylene 3-gang Cube Mold. Forms 2-in (50.8 mm) cube samples for compression strength testing. The mold is supplied complete with a top and compaction tamper.



C-236

C-236 Plastic Cube Mold, 2 in sq., 3 gang 2.0 lb

Related Item

C-23605 Silicone Mold Release, 18 oz can

Grout Sample Box

The Grout Sample Box is used to form grout prisms 3 x 3 x 6 in. as specified in ASTM C 1019, Note 6. The C-266 offers an alternative to stacking concrete blocks and lining them with paper towels.



C-266

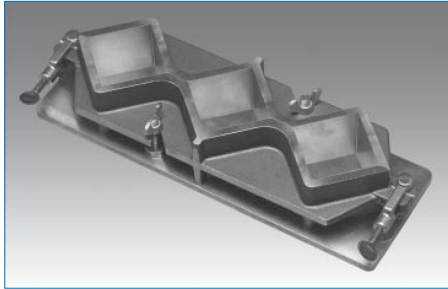
C-266 Grout Sample Box (case of 25) 18 lb

2-in Cube Mold (Machined/Forged Brass)

ASTM C 87, C 109, C 141, C 257, C 267, C 306, C 472, C 379, C 396

AASHTO T 106

This Cube Mold is used to prepare 2-in (5.1 cm) cube specimens of high strength materials for compression testing. Wing nuts secure the mold halves and base plate for easy disassembly and removal of specimens without damage.



C-235

| | | |
|----------------------|--|-------|
| C-235 | Cube Mold, 2 in square, 3 gang | 15 lb |
| Related Items | | |
| C-23510 | Cube Mold Cover Plate with holes (for ventilation) | |
| C-23511 | Cube Mold Cover Plate without holes | |
| C-238 | Hard Rubber Tamper | |

Hard Rubber Tamper

ASTM C 109, C 157, C 185, C 596
AASHTO T 106, T 137, T 160

Molded from hard rubber for durability.
6 x 1 x 1/2 in (L x W x Thick.) (15.2 x 2.5 x 1.3 cm).

| | | |
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| C-238 | Hard Rubber Tamper | 1.0 lb |
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Cube Test Sand and Tensile Sand

ASTM C 91, C 109, C 144, C 185, C 349, C 359, C 593, C 778

AASHTO T 71, T 106, T 132

* See Standards Buyer's Guide at www.DGSI.info/3000.

DGSI Cube Test Sand is used to prepare mortar specimens for strength testing. It is specially graded to ASTM and AASHTO specifications to retain:

- 2% on #30 sieve
- 72% on #50 sieve
- 98% on #100 sieve

DGSI Tensile Sand is used for standardizing mortar for tensile strength testing. It is specially graded to pass a #20 sieve, be retained on a #30 sieve and have a specific gravity of 2.65.

| | | |
|-------|-----------------------------------|---------|
| C-401 | Cube Test Sand, 50 lb bag (green) | 50.0 lb |
| C-402 | Tensile Sand, 50 lb bag (blue) | 50.0 lb |

Flasks

| | | |
|-------|--------------------------------|------|
| C-425 | Le Chatelier Density Flask | 1 lb |
| C-424 | Chapman Specific Gravity Flask | 2 lb |

Length Comparator

ASTM C 151, C 227, C 490, C 531, C 359

AASHTO T 107, T 160

* See Standards Buyer's Guide at www.DGSI.info/3000.

The instrument is provided with substantial rigidity through the use of a solid frame and cast steel base. The lower fixed anvil and the upper movable anvil are designed to accept the cast-in points of the specimen bars. The comparator includes a precision dial indicator and an Invar steel reference bar.



C-24550

| | | |
|---------|----------------------------------|---------|
| C-24550 | Length Comparator, English Units | 13.5 lb |
| C-24555 | Length Comparator, Metric Units | 13.5 lb |

| Specifications for Length Comparator | |
|--------------------------------------|--|
| Size: | 7.5 x 7.75 x 17.75 in (19 x 19.7 x 45cm) |
| Indicator: | English- 0.3000 in x 0.0001 in division Metric- 8.000 mm x 0.002 mm divisions |

Specimen Contact Points

ASTM C 151, C 227, C 490

The precision machined, stainless steel Specimen Contact Points, 0.25-in dia. x 0.75-in long, are cast into the specimen cement bars. They are used as reference points when placed in the Length Comparator.



C-24556
(1 piece shown)

| | | |
|---------|----------------------------------|------|
| C-24556 | Specimen Contact Points, 10 pack | 1 lb |
|---------|----------------------------------|------|

Mortar Mixer

ASTM C 305
AASHTO T 162, T 107

Mortar Mixer is used for mixing cement and mortar pastes. The heavy duty mixer has 3 operating speeds, lever to adjust the height of the 5-qt (4.73 L) bowl and a planetary mixing action to ensure thorough and complete mixing. Supplied complete with a stainless steel bowl, flat beater and a wire whip.



G-251

| | | |
|---------|--|-------|
| G-251 | 5-qt Mixer w/ adjustment bracket, 115 V - ASTM | 55 lb |
| G-25110 | 5-qt Mixer w/ adjustment bracket, 230 V/50 Hz - ASTM | 55 lb |

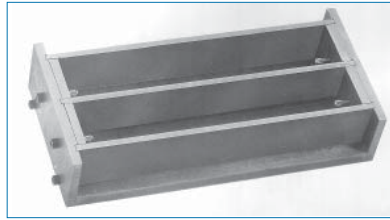
See page 119 for other sizes.

Bar Molds

ASTM C 141, C 151
AASHTO T 107

The Test Bar Molds are designed to allow standard sized specimens to be made for accelerated soundness testing using the autoclave.

Available in three types for 10-in (25.4 cm) long bar specimens.



C-24542

| | | |
|---------|--------------------------------|---------|
| C-24541 | Single Bar Mold, 1 x 1 x 10 in | 10.0 lb |
| C-24542 | Dual Bar Mold, 1 x 1 x 10 in | 20.0 lb |
| C-24543 | Single Bar Mold, 3 x 3 x 10 in | 25.0 lb |
| C-24544 | Single Bar Mold, 4 x 4 x 10 in | 26.0 lb |

Cement/Mortar Autoclave

ASTM C 88, C 141, C 151
AASHTO T 107

The Cement/Mortar Autoclave is used to conduct accelerated soundness test or autoclave expansion test on cement mixtures. Designed to provide a constant steam pressure, adjustable between 60 to 350 psi (414 to 2413 kN/m²), at a constant temperature.



C-245

| | | |
|---------|---|--------|
| C-245K | Cement/Mortar Autoclave, 110 V, 50/60 Hz, 1800 W, 1 ph | 200 lb |
| C-24510 | Cement/Mortar Autoclave, 220 V, 50/60 Hz, 1800 W, 1 ph (w/ transformer) | 240 lb |

Related Item

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|-------|--|
| C-540 | Pocket Tachometer, 2000 to 21,000 cpm or rpm |
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Specifications for Cement/Mortar Autoclave

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|------------|--|
| Size, Int: | 6-1/8 in (15.5 cm) diameter x 16 in (41 cm) tall |
| Size, Ext: | 17 x 48 x 28 in (43 x 122 x 71 cm) |
| Pressure: | 60 to 350 psi (414 to 2413 kN/m ²) |
| Safety: | Pop-out rupture disc 350 psi (2413 kN/m ²) |
| Controls: | Pressure gauge w/ regulator, heater and power switches w/ indicator lights |

Test Specimen Holder

ASTM C 141, C 151 AASHTO T 107

The Test Specimen Holder is used to hold bar specimens in an upright position when placed in the Cement/Mortar Autoclave. It ensures that each of up to eight specimens are exposed to the pressurized steam in the same way. Made from corrosion resistant materials. Holds eight 1 x 1 x 10 in (25.4 x 25.4 x 254 mm) bar specimens.



C-24520

| | | |
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| C-24520 | Test Specimen Holder | 5.0 lb |
|---------|----------------------|--------|

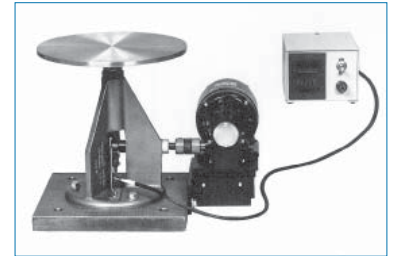
Flow Table

ASTM* C 87, C 105, C 185, C-230, C 243, C 348
AASHTO* T 71, T-106, T 137

* See Standards Buyer's Guide at www.DGSI.info/3000.



C-248 (right), C-24801 (left)



C-24810

The Flow Table provides an efficient means of determining the flow of cement pastes and hydraulic cement mortars. Using the flow mold provided, a specific volume of material is molded on the table. The mold is removed and the table subjected to a specific number of 1/2 in (12.7 mm) drops using the crank handle. The increase in average diameter of the sample indicates the flow.

| | | |
|---------|-------------------------------------|--------|
| C-248 | Flow Table, Hand Operated | 22 lb |
| C-24810 | Flow Table, Motorized, 110 V, 60 Hz | 100 lb |
| C-24815 | Flow Table, Motorized, 220 V, 50 Hz | 110 lb |

Accessory

| | |
|---------|-----------|
| C-24801 | Flow Mold |
|---------|-----------|

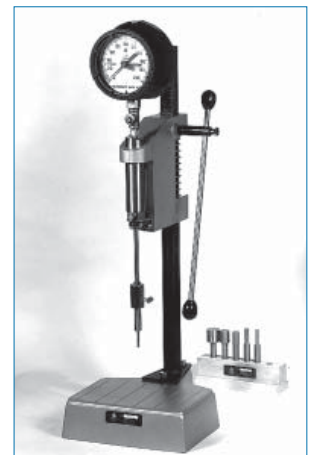
Specifications for Flow Table

| | |
|------------|--|
| Table: | Diameter, 10 in (254 mm), cast bronze. Weight w/ shaft: 9 lb ±0.1 lb (4.1 ±0.05 kg) |
| Frame: | Heavy duty steel with cam to produce a 1/2 in (12.7 mm) drop |
| Flow Mold: | 2 3/4 in (69.8 mm) Top I.D., 4 in (101.6 mm) Base I.D., 2 in (50.8 mm) high |

Mortar Penetrometer

ASTM C 403

The Mortar Penetrometer is used to determine the rate of hardening of the mortar component of fresh concrete. The mortar is extracted by sieving. Measurement is made by first attaching one of the six penetration needles to the calibrated spring dynamometer. The Penetrometer is then pushed into the sample and the sliding will indicate the maximum test reading on the handle stem.



C-261

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| C-261 | Mortar Penetrometer Kit | 7 lb |
|-------|-------------------------|------|

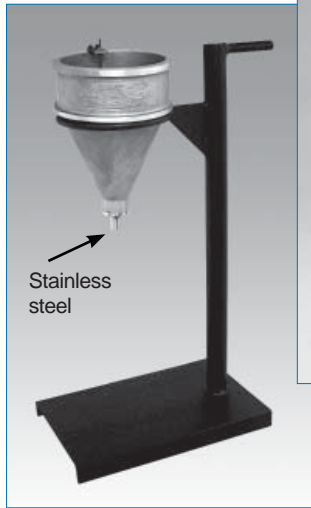
Specifications for Mortar Penetrometer Kit

| | |
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| Scale: | 130 lb with 10 lb and 1 lb divisions |
| Needles: | 1, 1/2, 1/4, 1/10, 1/20 & 1/40 in 2 end area |

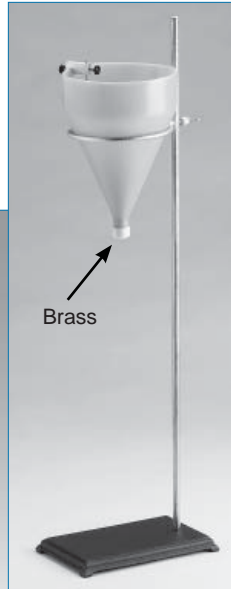
Grout Flow Cones

ASTM C 939

The Flow Cone is used for measuring the fluidity of grout mixes in the field or laboratory.



C-243 shown resting in optional stand, C-24301



Brass

C-242

| | | |
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| C-242K | Flow Cone, polyethylene, 3/4 in orifice, w/ stand | 7 lb |
| C-24250K | Flow Cone, polyethylene, 1/2 in orifice, w/ stand | 7 lb |
| C-243 | Flow Cone, cast aluminum, dual orifice (1/2 & 3/4 in) | 10 lb |
| Replacement Items | | |
| C-24201 | Flow Cone, polyethylene, 3/4 in orifice | |
| C-24202 | Point Gauge Level Indicator | |
| C-24203 | Flow Cone, polyethylene, 1/2 in orifice | |
| C-24298 | Cast-iron Support Ring | |
| C-24299 | Cast-iron Support Base w/ 1/2 x 36-in steel rod | |
| Accessory Item | | |
| C-24301 | Flow Cone Stand for C-243 | 23 lb |

Alkali Reactivity Container

ASTM C 289

The Alkali Reactivity Container is used to determine the potential alkali reactivity of aggregate materials. It will assess the extent of abnormal expansion when the aggregates are used with cement with a high alkali content. Made from stainless steel, it has a capacity of 50-75 ml.

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|-------|-----------------------------|--------|
| C-420 | Alkali Reactivity Container | 3.0 lb |
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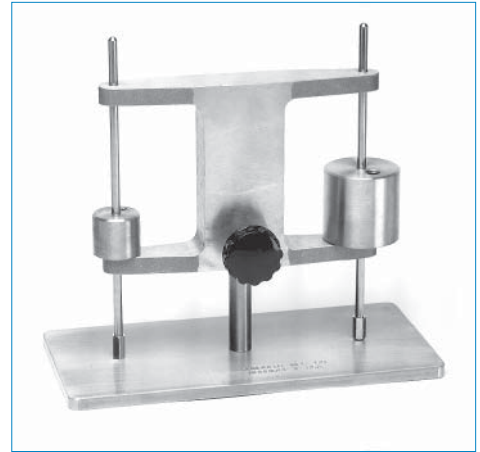
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| Specifications for Alkali Reactivity Container | | |
| Size: | 2 in (5.1 cm) dia. x 2.25 in (5.7 cm) | |
| Capacity: | 50-75 ml | |
| Construction: | Stainless steel with air-tight clamp and cover | |

Gilmore Apparatus

ASTM C 91, C 141, C 266

AASHTO T 154

The Gilmore Apparatus determines the time of set for cement. It comprises a rigid aluminum and steel frame with two precisely machined stainless steel points and associated weights.



C-249

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| C-249 | Gilmore Apparatus | 8.0 lb |
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| Specifications for Gilmore Apparatus | | |
| Needles: | Large 1/24 in (1.06 mm) dia. point w/ 1 lb (453.6 g) weight | |
| | Small 1/12 in (2.12 mm) dia. point w/ 1/4 lb (113.4 g) weight | |

Portable Mixers

Portable Mixers are used in the laboratory to prepare concrete or cement/mortar batch mixes. They have a dry batch capacity of 3 1/4 ft³. Optional wheel kit available to move mixer about laboratory. Inquire as to other models available as special orders from 1 1/2 to 9 ft³ and powered by either electric motor or gasoline engines.



C-860

Overall dimensions (L x W x H): 46 x 30 x 48 in.

| | | |
|---------------------|---|--------|
| C-860 | Portable Mixer, 115 V, 60 Hz, 1.5 hp electric motor | 260 lb |
| C-86015 | Portable Mixer, 230 V, 50 Hz, 1.5 hp electric motor | 260 lb |
| Accessories: | | |
| C-86020 | Wheel Kit for C-260 | 45 lb |

Masonry Saw

The Electric Masonry Saw accepts a 14-in diameter blade with a 1-in diameter arbor. The saw can be used for wet or dry cutting of concrete, cores, blocks, rock and masonry. A 5-hp gasoline engine version is available upon request.

| | | |
|-------|--|--------|
| C-825 | Electric Masonry Saw, 110/220 V, 60 Hz | 145 lb |
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For specifications, see page 92.