





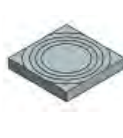




Required testing components:

									
Specimen	602683	602694	602687	602684	602633	602621	602636	602924	602634
	Spherical Seat Ass'y 3 x 6 / 2 x 2	Cube Riser Set 2 x 2	Spacer, Top, 2 x 4	Spacer, Top, 3 x 6	Spacer, Top, 4 x 8	Spigot	Spacer Platen, 1 Inch	Spherical Seat Ass'y, 6 x 6 Cube	Spacer, Top, 6 x 6 Cube
Weight	13.0 lb (5.9 kg)	51.0 lb (23.1 kg)	4.0 lb (1.8 kg)	2.75 lb (1.25 kg)	32.0 lb (14.5 kg)	1.0 lb (0.45 kg)	18.0 lb (8.2 kg)	36.5 lb (16.6 kg)	47.5 lb (21.5 kg)
2 x 2 Cube	✓	✓				✓			
2 x 4 Cyl W/CC ^a	✓		✓			✓	Recommended		
2 x 4 Cyl W/PC ^b	✓		✓			✓			
3 x 6 Cyl W/CC	✓			✓		✓	Recommended		
3 x 6 Cyl W/PC	✓			✓		✓			
4 x 8 Cyl W/CC					✓		Recommended		
4 x 8 Cyl W/PC					✓				
6 x 6 Cube							✓	✓	✓

(a) CC= Capping Compound (b) PC= Pad Caps

LOAD FRAME SPECIFICATIONS	
Load Indicator Display Type	Order Separately (see page 69)
Loading Type	Hydraulic Cylinder
Capacity	300,000 lbf (1334 kN)
Factory Calibration Range	2500 lbf to 300,000 lbf (11.1 kN to 1334 kN)
Max Pressure for 6"x12" Cylinder	10,610 psi (73.1 MPa)
Vertical Daylight	19.25 in (489 mm)
Horizontal Daylight	10.75 in (273 mm)
Bottom Platen Diameter	7 in (178 mm)
Max Travel	3 in (76 mm)
Dimensions (approx.)	
Overall Height	36 in (914 mm) (39.5 in with lifting hook)
Overall Width	27 in (686 mm)
Overall Depth	13 in (330 mm)
Approx. Ship. Volume	8 ft ³ (0.23 m ³)
Net Weight	760 lb (345 kg)
Power	0.5 hp, (0.37 kW) 115/220 V, 50/60 Hz

ORDERING INFORMATION

Load Indicator (Choose one from choices below)

- CC-110 Basic Load Indicator
- CC-115 Basic Plus Load Indicator, 110 V, 60 Hz
- CC-11510 Basic Plus Load Indicator, 220 V, 50 Hz
- CC-150 Premium Load Indicator
- CC-155 Premium Plus Load Indicator

Software for Load Indicator (Choose one)

- CC-15005 WinCom data communication software for CC-150 or CC-155
- CC-15020 WinCom Plus data communication and graphing software for CC-150 or CC-155

Accessories: (See p.65)

- 602782 Loading Shelf Kit for Load frame 25 lb
- 260201 Stand for Load Frame* 75 lb
- C-170 Flexural Strength Test Beam Attachment*, 9 x 22 in. Machine mounting. 150 lb
- 602732 Block Platen Assembly**(Specimens up to 8 x 16 in) 241 lb
- C-194 Concrete Cylinder Compressometer/
Extensometer*, dual dial 26 lb
- C-190 Concrete Cylinder Compressometer*, single dial 22 lb
- 301110 Splitting Tensile Strength Bearing Bar*, 12 x 12 x 3 in 23 lb

Related Product:

- C-16001 Concrete Beam Breaker

(*) Compatible with older CM-200 Load Frame

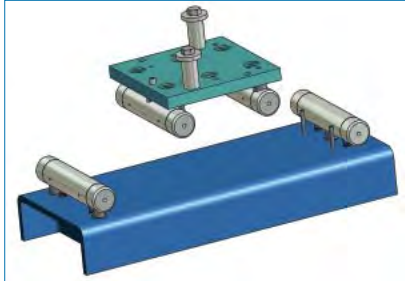
(**) Not for prism testing

Accessories

Flexural Strength Test Beam Attachment, C 170

ASTM* C 293, C 78 AASHTO* T 97

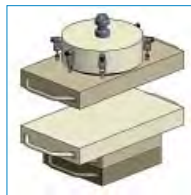
May be mounted on a CC-300 Load Frame to allow flexural strength testing of beams. The upper load member attaches directly to the upper platen of the Load Frame, while the lower member fits over the bottom platen.



The attachment is made from high strength structural steel for accurate and reliable testing. Contact DGSi for assistance in using this unit with load frames made by other manufacturers.

Block Platen Assembly, 602732

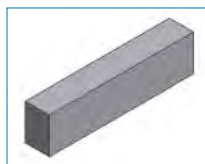
For testing block samples up to 8 x 8 x 16 in (203 x 203 x 406 mm). Not to be used for prism testing.



Splitting Tensile Strength Bearing Bar, 301110

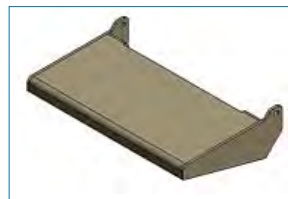
ASTM C 496

Consists of a machined bar with a lower surface precision finished to a planeness of ± 0.001 in (0.025 mm). 2 x 3 x 12 in.



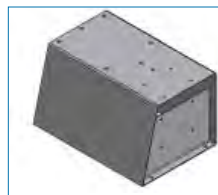
Loading Shelf Kit for Load Frame, 602782

This sturdy shelf sits level with the lower platen, making loading and unloading material into your CC-300 easier. Made of rust-resistant stainless steel.



Stand for Load Frame, 260201

Raises the CC-300 to an ergonomic height, making it easier to load samples. Also provides easier access to the hydraulic controls and load indicator. Increases total height by 16 inches (406 mm).



Concrete Cylinder Compressometer/Extensiometer, C 194

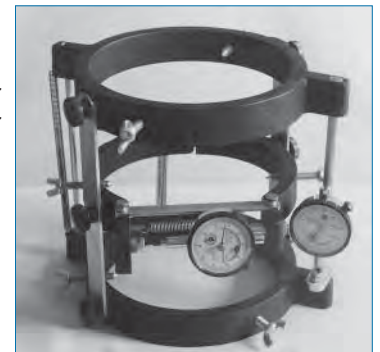
ASTM C 469

Measures the average deformation and strain of a 6 x 12 in (15.2 x 30.5 cm) concrete cylinder sample during compression testing.

Strain in both length and diameter is measured by two dial indicators mounted at 90° angles. It consists of an aluminum-magnesium frame with mounting and central points made from steel and stainless steel control rods.

The standard gauge length is 6 in (15.2 cm). Dial indicators have a range of ± 0.2 in with 0.0001 inch graduations.

A single-gauge Concrete Cylinder Compressometer (model C-190) is also available. It may be obtained from DGSi in other sizes and adapted to use linear transducers and digital read-outs as special order items.



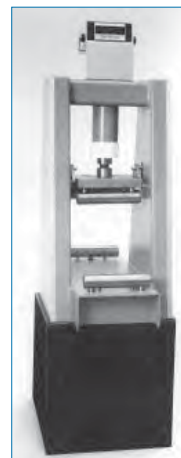
Concrete Cylinder Compressometer/Extensiometer, Model C-194.

Related Product

Concrete Beam Breaker, C 16001

**ASTM C 293, C 78
AASHTO T 97**

This self-contained instrument is designed for testing beam samples. The flexible design allows testing for center point as well as third point loading.



Concrete Beam Breaker, Model C-16001

Our 20+ years of experience in manufacturing concrete compression machines combined with the smartly engineered frame and the advanced hydraulic pump will give you the long-term dependability you need in today's demanding concrete market.

Load Indicators for Concrete Compression Testing Machines.

The load frame requires a load indicator which must be ordered separately. Models Basic and Basic Plus are preferred when data does not need to be stored in memory or downloaded to spreadsheets. These displays are economical choices for laboratories or job sites with low to medium sample volumes. Models Premium and Premium Plus offer enhanced features as listed below. The accuracy of all indicators listed here exceed ASTM E 4 requirements.

Load Indicators at a Glance

Level →	Basic	Basic Plus (Recommended)	Premium	Premium Plus
Part Number →	CC-110	CC-115	CC-150	CC-155
Results Displayed	Live Load Peak Load	Live Load ¹ Peak Load ¹ Load Rate ²	Live Load ¹ Peak Load ¹ Load Rate ²	Live Load ¹ Peak Load ¹ Load Rate ² Peak Stress ³
Reading Range	2500 lbf to 300,000 lbf (11.1 kN to 1112 kN)			
Resolution	0.03 lb			
Accuracy with Transducer	≤ 0.5% of indicated load over the entire reading range (Exceeds ASTM E 4 requirements)			
Programmable Load Range		✓	✓	✓
Load Rate Display (during test)	N/A	Bar graph with pointer moving between limits		
Adjustable Upper and Lower Rate Limits	N/A		✓	✓
Start Test Threshold	Set in firmware		User defined	
Automatic Sample Break Detection	End of test is set at 50% of peak load		End of test is user defined	
Automatic Reset to Zero for Next Test	✓		✓	✓
Permanent Storage of Test Data	None		Up to 360 test results	Up to 400 test results
Data Transmission and Software Capabilities	None		Available with optional data acquisition software (See below for details)	
Actual Load Rate Test Data	N/A		Activate average load rate analysis to calculate and report actual load rate tests.	

¹ Select lb, N, kN, or kg. ² Force unit per second. ³ Stress in psi, MPa, kPa or ksc. Length in inches, mm or cm.

Software Packages for Load Indicators

WinCom (CC-15005): WinCom is a Windows® 95/98/NT/2000/XP based program that facilitates the transfer of data to your computer through a standard RS-232 serial port.

WinCom features:

- Eliminates data entry errors.
- Helps safeguard data.
- Easy-to-use and inexpensive.
- Transfers data in ASCII comma-delimited format.
- Launches application of your choice automatically.

WinCom Plus (CC-15020): WinCom Plus is an enhanced version of WinCom, allowing you to automatically capture and upload test results. Provides simple plotting programs to verify that tests are being run according to ASTM specifications.

WinCom Plus features:

- Automatic capture of test results and raw test data.
- Automatically launch and view results and raw test data in common spread sheet programs.
- View and print load/stress vs. time or load/stress vs. strain plots.
- Run in unattended mode and automatically save test results in ASCII comma-delimited format.
- Append a date and time stamp so files are easily identifiable.
- Windows® 95/98/NT/2000/XP compatible program is easy to use.

S-610 Load Frame

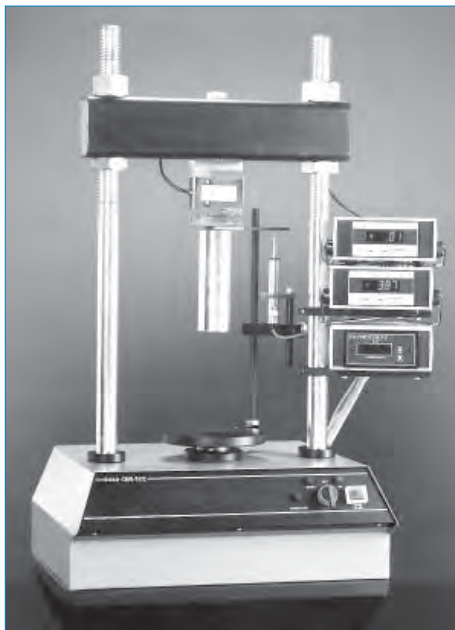
for Grout Cube and Soil Cement testing

ASTM* C 109, C 109 M, D 1633
AASHTO* T 106

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

Time-proven, reliable mechanical load frame. Operator convenience includes the capability to control the speed by simply pushing touch pads and viewing direct readings in in/min on a digital device.

Dimensions, (WxDxH): 9 x 16 x 36 in (229 x 406 x 914 mm).



S-610, with optional accessories. CBR Set Up.

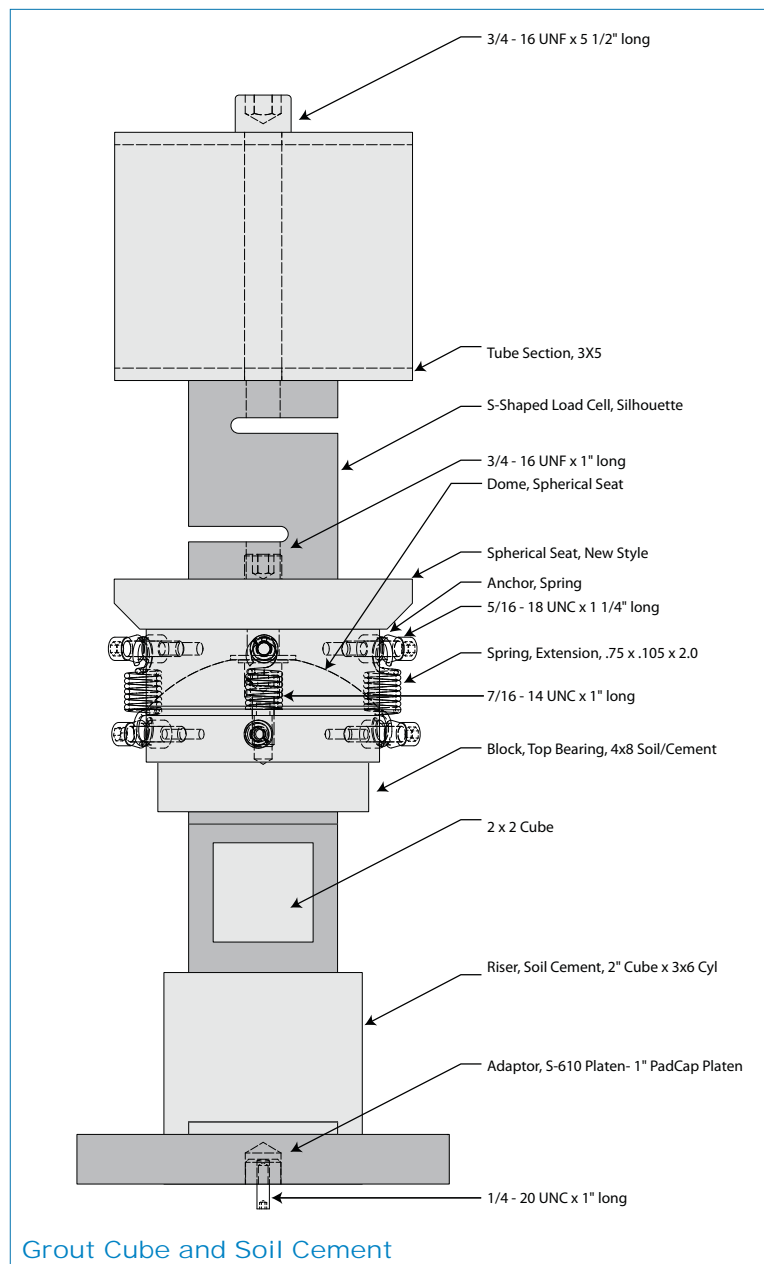
An automated version of this load frame is available (see Model S-611).

Grout Test Accessories

The S-610 Load Frame may be used to test grout or concrete specimens (3 x 6 in cylinders, 4 x 8-in cylinders, 3 x 3 x 6 in prisms) to a **maximum load of 10,000 lbf**. For this, in addition to the S-610 Load Frame, you will need an accessory kit (S-61060) which consists of a platen (C-290) and an S-Type load cell with a capacity of either 6,000 lbf (E-214) or 10,000 lbf (E-216). See S-Type load cells on page 48.

S-61060	Soil Cement Spherical Seat, 4 in
Accessories:	
C-290	Platen
E-214	S-Type Load Cell, 6000 lbf
or	
E-212	S-Type Load Cell, 10,000 lbf

Specifications for S-610 Load Frame	
Load Capacity:	10,000 lbf (44.5 kN)
Speed Range for Platen Movement:	From 0.005 to 0.2 in/min, (0.127 to 6 mm/min) in 0.001 in/min (0.0254 mm/min) steps.
Platen:	6.25 in (159 mm) diameter
Piston:	2 in (50 mm) diameter
Piston Travel:	3 in (76 mm) maximum
Speed Control:	Microprocessor based electronic controller
Column Distance:	11.75 in (298 mm)
Max. Daylight:	19 in (483 mm) without load measuring device
Strain Rods:	1.5 in (38 mm) dia., Acme thread for adjustment
Cross Beam:	Adjustable, w/ center hole 0.75 in (19 mm)



Grout Cube and Soil Cement