concrete compression machine manual

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Book Descriptions:

concrete compression machine manual

They are produced to perform reliable compression tests on concrete specimens especially suitable for onsite applications when electric power supply is unavailable. With their remarkable performance, the UTC4010 and UTC4110 are a reliable and practical solution for remote site locations where electrical power is unreliable, or nonexistent. The compression machines consist of a heavy duty welded frame, hydraulic power pack and data acquisition system LPI. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. You need JavaScript enabled to view it. They exceed both ACI and ASTM requirements for frame rigidity and accuracy, making them ideal for commercial testing laboratories that commonly test a wide variety of specimen types. East Palestine, OH 44413. By using our site, you agree to our cookie policy.Learn why people trust wikiHow To create this article, 12 people, some anonymous, worked to edit and improve it over time.Depending on how you use it, the concrete compression machine is mainly used for calculatingThe machine can also test several other materials like beams, cores, cubes, and blocks. This manual will not only help engineers in need, but it can also help anyone who would like to try out and see what this machine can really do. This manual will cover on how to use any kind of concrete compression machine due to the fact that there are different models.The main power switch is behind the digital monitor screen. Be careful not to touch the motor while it is on.You must place the cylinder on top of the neoprene cap as shown in the image to the right. Be careful not to move the piston manually with your hands.Watch your hands!Make sure the lever is in the “Advance” position. Do not touch the motor.http://www.galtex.sk/storage/file/9440cn-manual.xml

- **forney concrete compression machine manual, manual concrete compression machine, 1.0, forney concrete compression machine manual, manual concrete compression machine.**

Be careful not to put hands near piston while it is coming down!Refer to Page 5 for correct pressures per concrete cylinder.Record the ultimate load in lbs on your table.This should place the piston back in its original position before you began the test.Restart the testing process from step 3 and go up all the way to step 19.Below is a figure with the correct list of pressures to use while operating the machine Most of these skills are basic but mainly involve math skills while trying to calculating the following Use the tear key instead. Anyone under the age of 18 must be accompanied by an adult in order for them to operate this machine. Amid the current public health and economic crises, when the world is shifting dramatically and we are all learning and adapting to changes in daily life, people need wikiHow more than ever. Your support helps wikiHow to create more indepth illustrated articles and videos and to share our trusted brand of instructional content with millions of people all over the world. Please consider making a contribution to wikiHow today. Instron Inc., n.d. Web. 12 Feb 2011. Instron Inc., n.d. Web. 14 Feb 2011. To create this article, 12 people, some anonymous, worked to edit and improve it over time. This article has been viewed 34,209 times.By continuing to use our site, you agree to our cookie policy. Please help us continue to provide you with our trusted howto guides and videos for free by whitelisting wikiHow on your ad blocker. If you really can’t stand to see another ad again, then please consider supporting our work with a contribution to wikiHow. Key Features Manual loading, digital load measurement. The screen displays loading speed, breaking peak value, data storage, and compression strength conversion. Instant data printout on console. Several variables contribute to define the quality of the concrete

utilized for a structure workability, consistency, setting time and air content are only few examples.http://ceramkgres.ru/userfiles/9448+-style-installation-manual.xml

Each machine has its own kN capacity and control unit to perform tests on materials with different strength and composition. You must have JavaScript enabled in your browser to utilize the functionality of this website. Reliability is the foundation of our reputation and our leadership. FORNEYs uncompromising quality has sustained civil engineering projects around the world. This unit accommodate twoblock masonry prisms and the Load Frame Mounting Stand is included. The mounting stand is placed in the lower platen at the correct height for safe, efficient handling of specimens. This Concrete Compression Machine includes latchable steel Fragment Guard Doors. The controllers are sidemounted. Gilson Load Frames for Concrete Compression This Concrete Compression Machine comes equipped with solid steel crossheads from 36in 76152mm thick on our standard frames. Gilson load frames are the stiffest in the industry. The frame is among the few meeting the stringent ACI 363 rigidity recommendations. Concrete Compression Machine Assembly and Process The bottom mounted hydraulic ram applies compression force upward through the concur. Precision ground piston with ORing sealing and Teflon backup ring rests in a polished steel cylinder. This Concrete Compression Machines Sphericallyseated upper platen assemblies are ground, hardened, nickel plated and scribed with concentric circles and oversized rectangular compression tables. Locking stem holds upper platen assembly securely in place, yet allows for quick substitution of accessory components. OilImmersed Hydraulic Pump for Concrete Compression The twostage, oilimmersed pump drives the hydraulic systems of the Concrete Compression Machine. The first high volume, lowpressure stage rapidly advances the piston.

The pump automatically switches at 135psi of pressure to the second stage of low volume, high pressure flow used during testing to maintain a continuous rate of loading from 2,000200,000lbf per minute with the value set in its Metered Advance Position. Hold feature pauses pressure advance indefinitely and Retract feature releases pressure to allow return of piston to starting position. A highpressure hydraulic safety valve prevents use beyond maximum machine capacity. A pressure bleed hole in the piston helps avoid overextension of the ram. Concrete Compression Machine ProPlus Controller The ProPlus controller offers the most accurate and advanced system available today for the testing and documentation of concrete strengths. Ease of operation and dependability are two important features of this new system. All information is clearly displayed on the 4.6x3.4in 116x86mm, WxH backlit VGA graphic panel. The Concrete Compression Machines large 320x240 pixel screen with large alphanumeric characters has adjustable contrast to make it easily readable under any lighting conditions. The Concrete Compression Machine controller can automatically store test results to memory for downloading to a printer, or to a PC for further recording and reporting options. Up to 500 tests can be stored to memory and printed in a spreadsheet format listing test date and time, sample ID number, sample type, specimen area and length, peak load and peak stress. Optional data includes average rate of load, C 39 cylinder correction factor, break type, cylinder cap type, sample age, weight, and operator ID number. Spanish or English language menus can be toggled in the settings. Inquire for other options to store and download test data. The ProPlus has a twoyear warranty and is built for harsh laboratory environments and features a stainless steel NEMA4 enclosure that is both moisture and dust proof. Heavyduty tactile keys are tested to over five million actuations.

The ProPlus Controller is also UL, CUL, CE, and Measurement Canada listed. Concrete Compression Machine Sample Types The softkey menus for the Concrete Compression Machine allow fast and easy set up. A sample type menu lists six common specimen and test types cylinder, cube, thirdpoint and centerpoint beams, cylindersplit and crosssectional area. Test results are automatically stored for hardcopy documentation. In case of accidental data loss, a calibration restore feature allows the original factory calibration to be uploaded to the controller via a communication port. The original

calibration data file is maintained at the factory. During a test cycle, load, stress and rate of load in the time units selected are displayed simultaneously. At test completion, peak stress, load, and if activated, the average loading rate during the test, are automatically displayed. The ProPlus also features live XY plotting of load vs. time. 500K Concrete Compression Machine Manual and Specifications Product Manual 500K Concrete Compression Machine Test Methods This 500K Concrete Compression Machine meets the following test methods AASHTO T 22 ASTM C 39 ASTM E 4 BS 1610 BS 1881 All rights reserved. The loads are measured on Bourdon tube type load gauges which are calibrated against certified proving rings. The load gauges are fitted with a maximum load pointer. Specifications Capacity 100 t Hand operated fitted with 15 cm Dia load gauge Designed for testing of cement, concrete moulds of various size 15x30 cm cubes, 7.06x7.06 cubes, 15x15 cm cylindrical mould, bricks can also be tested with the help of adjustable hand wheel Get Latest Price from the seller Our product stands high on quality and reliability and is rugged enough for the outdoor purpose. Significant investment in research and product enhancement has kept us in pace with changing global markets. Our company is credited for its consistency in quality, customer service and timely delivery schedules.

http://harjac.com/images/canon-9000l-fax-machine-manual.pdf

With the focus on offering best returns to customers, we have been optimizing on our cumulative experiences. Our efforts have enabled us to successfully suffice the diversified and increasing demands of domestic and overseas customers. Facilitated with all the essential infrastructure and human potential, we develop measurement and testing equipment to meet the exact specifications of the customers. The excellent performance and accuracy of our products are assured through a wellengaged quality mechanism that controls, checks and improves products. Our organization is driven by expertise and teams are focused on putting heart and soul in every endeavor. With a passion for quality and innovation, we as a manufacturer, are committed to continual improvement of the product line. The products offered by us are backed by technical superiority, reliability and price competency, whereas our services are backed by a professional and ethical business approach.Get Best Deal I agree to the terms and privacy policy All rights reserved. Equipped with an LCD unit that displays the data graphically of each test with the ability to save and recall the results of the tested specimens. The Data Acquisition Control provides realtime graphical indication. Automatically determines the load rate in accordance with the international standards upon sample type. With the AUTOSTOP function, the test will automatically stop. Fully automatic mode or manual mode in which the user gets the ability to adjust the load rate and period manually are available. The upper seating adjusts itself to apply homogeneous loading on the sample. Supplied complete with spacer discs. Automatic Load Rate upon Sample Type. Stops Automatically, when Test is completed. Real time graph indication. Total Load and also Per Area are given. Test results can be transferred to computer to be printed or from the thermal printer. Calibration done easily on 5 pts. Manual Control is available.

https://gameanglinginstructors.co.uk/images/canon-9000-user-manual.pdf

If weight of sample entered, Unit Weight is determined. Rigid Frame. Upper and Lower Platens in accordance with international Specifications. Upper Seating for Homogeneous Loading. Distance Pieces included.Download PDF Using the stateoftheart software provided by ALFA with the machine will help performing and managing the tests in a very easy and fast way. By performing the tests via computer, the results can be saved and recalled when required. Reports can be generated automatically by the software and sent to printer. Choose the diameter of the cylinder in inches or specify the custom dimensions of your sample. Choose the mode from the main screen by selecting either AUTOMATIC or MANUAL. Press “Start” to begin the test. Choose the sample size in millimeters or specify the custom dimensions of your sample. Press “Start” to begin the test. This requirements determines the capacity of the frame, the type of spherical seat and the platen

dimension. Both standards states very strict geometrical requirements for the spherical seats, accomplished by the following models. This machine is mainly designed for the testing of 4” 100 mm and 6” 150 mm concrete cubes, and 100 mm and 150 mm concrete cylinders. These compact testers contain three core pieces the hydraulic pump, heavy duty load frame, and control and display systems. The other benefit of this large bearing block is that it allows for a broad horizontal entrance opening and a lot of ready access for loading and removing specimens. The rate of loading and piston return on test completion is regulated automatically by the controller. After fitting a simple manual valve system, users are set to test the flexural strength of concrete beams, up to 100 kN 22,000 lbf maximum load. This attachment, model TO314LUSPL, can test nearly three stacks of hollow prisms. The rear also has a debris chute that doubles as protection for the hydraulic hose and valve connections.

Additional safety features include electronic limit switches, physical limit switches, and emergency panic button to guarantee that the user’s investment lasts for years of testing. The DG Series is provided with three controller options Easy to read and operate, it has simple and logical input screens and displays a realtime graph of test load vs time. Easy to read and operate, the controller has simple and logical input screens and displays a realtime graph of test load vs time It is an advanced digital control and display system with a 10” diagonal resistive touchscreen display, and is delivered complete with a stylus for easier operation for users wearing gloves. This new touchscreen display matches all test frames that use the current EDI controller. Easy to read and operate, the controller has simple and logical input screens and displays a realtime graph of test load vs time. The TO EDI head is delivered with all TO concrete Compression Testing Machines DG, FA models and the Flex Testing Machine DG model. Sliding rail assembly allows the platens to be easily installed without removing current circular compression platens. They can be fitted on all semiauto and automatic compression machines. They should be factory installed. It is advantageous for stressstrain measurements and tensile tests. Compressometers are used for establishing strain and deformation characteristics of concrete cylinders. The compressometer has two frames for clamping to the specimen using five tightening screws with hardened and tapered ends. Two spacers hold the frames in position. A modifiable pivot rod rests on pivot screws. The ball chain is for modifying the tension of the spring. A dial gage, fixed to a bracket on the top frame, is used for performing deformation measurements. The extensometer has two movable frames pivoted at one end. A dial gage measures the lateral extension, and a removable spacer strip is for the preliminary setting of the dial gage.

The extensometer is linked to the specimen by screws. It is provided complete with TO072 dial gage or TO072DG digital gage. A spacer is provided for testing different size of beams and load is shown on a digital indicator. For the 150 x 150 x 700 mm beams, the support span is 600 mm and the loading span is 200 mm, while for the 100 x 100 x 500 mm beams, the support span is 400 mm and the loading span is 133 mm. With concrete, the most effective way to examine the destructive testing is the Flexural Test.These modifiable pins on two axes are of different sizes and are used based on the type and size of sample. The platens are particularly designed and can only be used with 2000 kN and 3000 kN compression testers. By continuing to browse this site you agree to our use of cookies. With their exceptional performance, the QTCTM4010 and QTCTM4110 are a reliable and economical solution for remote site locations where electrical power is unreliable, or nonexistent. The compression machines consists of a heavy duty welded frame, hydraulic power pack and data acquisition system LPI. These compression testers are manufactured as a result of continuous applications and research studies to upgrade the machines with the latest technologies to conform to the current standards ASTM C39;AASHTO T22; ISO EN 7500 in terms of its technical properties taking into account the client requirements. These machines also meet the requirements of CE norms with respect to the operators health and safety. Their userfriendly design enable an inexperienced operator to perform the tests. These compression testers are manufactured as a result

of continuous research studies to upgrade the machines with the latest technologies to conform to the current standards ASTM C39; AASHTO T22; ISO EN 7500 in terms of its technical properties taking into account the client requirements. Their userfriendly design enables an inexperienced operator to perform the tests.

These machines also meet the requirements of CE norms with respect to the health and safety of the operator. And their userfriendly design enable an inexperienced operator to perform the test. These compression testers are the results of continuous research to upgrade the testing machines with the latest technologies to conform to the latest standards EN 123903, 12390 4, BS 1881 and ASTM C39 in terms of its technical properties taking into account client requirements. These also meet the requirements of CE norms for the safety and health of the operator. These compression testers are the results of continuous research to upgrade the testing machines with the latest technologies and conform to the latest standards EN 123903, 12390 4, BS 1881 and ASTM C39 in terms of its technical properties taking into account client requirements. These also meet the requirements of CE norms for health and safety of the operator. Especially suitable for onsite applications when electric power supply is not available. Hand Operated Hydraulic Power Pack enables even an inexperienced operator to perform the flexure tests onsite. These testers also meet the requirements of CE norms for health and safety of the operator. These flexure testing machines are the result of continuous research to upgrade the testing machines with latest technologies to conform to the latest standards EN 123905, EN 12390 6, EN 1338, EN 1340, BS 1881, ASTM C78, C293 and C496 in terms of its technical properties taking into account client requirements. These also meet the requirements of CE norms for health and safety of the operator. Concrete flexural test 300kn 13.We constantly study and research new projects, and some of our products have won patents. We constantly study and research new projects, and some of our products have won patents.

The machine adopts micro flow valve, highprecision pressure sensor, and computer automatic constant loading control, which ensures high control precision and good reliability, it also uses electric screw lift to adjust the test space; the operation is easy and convenient.Updated daily.Updated daily.A wide variety of manual concrete compression testing machines options are available to you, such as hydraulic, electronic. There are 609 suppliers who sells manual concrete compression testing machines on Alibaba.com, mainly located in Asia. The top countries of suppliers are India, China, and India, from which the percentage of manual concrete compression testing machines supply is 1%, 98%, and 1% respectively. Compressive strength is usualy measured on a compression testing machine; These systems range from to ones with over 2000 kN to 3000 kN capacity. Measurements of compressive strength are affected by the specific test method and conditions of measurement. Compressive strengths are usually reported in relationship to a specific international standard. The Testmak HS series Automatic Compression Testing Machines are design to test the compression strength of concrete cube and cylinder specimens of different sizes. The rigid design provides stability and strength for a better using experience. Automatic compression machines with an LCD control unit that displays the data graphically of each test with the ability to save and recall the results of the tested specimens. Automatic mode or manual mode in which the user gets the ability to adjust the load rate and period manually are available. Suitable for CE security norms and compression machines are supplied in Class 1 starting from 50 kN. Upper and lower platens in accordance with international specifications. Surface hardness 55HRC, flatness tolerance 0.02 mm. Traceable certificate of surface hardness available on request. With the STOP and START buttons, the test will automatically stop or start.

Can do Automatic Load Rate upon Sample Type. Total load and also per area are given.Stops Automatically, when Test is completed. Test results can be send printer to with software or from the thermal printer. Can do calibration easily from 5 points. Computer and printer are not included in the price. Software The tests and calibration can be done and monitored with a computer by

connecting it to the machine. LCD Control unit can connecting with RS232 or USB port to the machine. Using the stateoftheart software provided by TESTMAK with the machine will help performing and managing the tests in a very easy and fast way. Reports can be generated automatically by the software and sent to printer. This equipment is the most simple, economicalPortable Model. Top and bottom Fiber cover. The machine is equipped withDigital 2000 KN x 1 KN least count. ASEW Compression Testing Machine conform to theDigital 2000 KN x 1 KN least countHand operated Loading unit 100 KN cap. with aType of Loading Third point. The engineering tolerances specified for moulds are very stringent and theMoulds not deformMade of cast iron. Made of Cast iron. Made of Cast iron Made of Cast iron Made of Cast iron Made of Cast iron. Made of CastIt works on the principle that theHence the harder the surface, the greater isSupplied completeThese are suitable for operation on 230 volts, 50Suitable for operation on 230 volts, 50Complete with graduated. This kind of compression testing machine is welcomed by labs, research and develop institues, inspection agency, and universities.This kind of compression testing machine is welcomed by labs, research and develop institues, inspection agency, and universities. Automated Operation The construction industry is often involved in a wide array of testing which requires a variety of testing equipment.

In addition to simple compression testing, testing standards such as ASTM C39, ASTM C109, ASTM C469, ASTM C1609 are among the test methods that can be followed to measure the mechanical properties of a concrete specimen. This blog post covers the mechanical testing of concrete in lab environments, its automation, and ways of achieving it. At the end of the tests, strength reports are created either manually or by automatic analysis. Automation includes the automatic control of the machine as well as the automatic calculation of the tested properties. When a machine is servocontrolled, it is operated through a controller or its software. The test procedure to be run and the analyses to be calculated are entered in the system and results are automatically generated. Certain indicators also allow the use of concrete testing software. Test results can be transferred to a computer running a database program and automatically imported. Nevertheless, certain test standards governing the concrete industry require strain rate feedback that is not possible to achieve with manual operation. Certain ASTM standards, such as ASTM C39, specify or limit the loading rate to a certain value or a range in order to ensure consistency within and among laboratories. When equipped with the right digital indicator, the average loading rate can be calculated and reported according to ASTM C39 requirements even if the testing was performed on a manually controlled machine. In addition to other features specifically beneficial for the concrete industry, depending on the selected digital indicator, load and stress versus time data and curves can be generated. Digital indicators do not control the testing machines, so operators are required to manually adjust a valve to achieve the specified rates. Hence, it is not possible to accurately follow standards that require constant low speed testing with manually operated systems.

Servocontrol equipment with controllers that are used to control the movement of the machine is recommended for such testing. ADMET offers servocontrol testing systems made specifically for concrete testing as well as closedloop electromechanical and servohydraulic universal testing machines that can be used to run a variety of material tests. Furthermore, ADMET works to meet unique customer requirements and has the ability to engineer customized systems. The Pi indicator, which comes in three different models listed below, features a 16character display, three button keypad and exceeds ASTM E4 force accuracy requirements. ASTM test methods that can be run with the Pi model include ASTM C39, C78, and C109. In addition to all the ASTM standards run with the Pi, the PiR model is also capable of ASTM C293 calculations. It can be used to calculate ASTM C39, C78, C109, and C293. DFG reports the peak load and stress along with the specimen geometry, dimensions, date, time, and specimen number. Additional test report parameters often desired by testing labs include the average rate of loading and the cylinder correction factor that are automatically calculated, the operator ID, specimen weight and age, entered by the operator, and

the cylinder break type and cap type. The DFG comes with defined specimen geometries which are required to calculate the stress values such as cylinder, cube, beam center point loading, beam3rd point loading, round and crosssectional area. For concrete testing, the main advantage of the GaugeBuster 2 is that it has the optional auxiliary encoder and strain analog channels that allow further testing, such as ASTM C469, to be performed. ADMET offers the compressometertransducer assembly for ASTM C469, Poisson's ratio, and Young's Modulus testing. Once a manuallyoperated machine is equipped with the GaugeBuster 2 indicator purchased with the optional channels and the C469 assembly, axial and transverse strain can be calculated per ASTM C469.

The Printer Port option allows the GaugeBuster 2 to be directly connected to a printer in order to print data and results whereas the USB Flash Drive Port option allows saving test results, XY data, test settings, and calibration tables directly to a flash drive. These options are especially useful if a computer is not available next to the indicator at all times. GaugeSafe Basic provides numerical test results, while GaugeSafe Plus provides numerical values as well as graphs. GaugeSafe Live provides live test data as well as live graphs throughout the testing. Since not every user requires the same software features, ADMET offers the option to choose from the software package that fits their needs best. By replacing the manual controls on operational testing frames with the MegaForce Testing System, automatic control and operation in load, position, or strain control are enabled making it possible to run tests such as ASTM C1609 or EN 14651. Depending on the indicator chosen with the system, automated compressive strength test reports are generated, saving time as well as costs required to manually generate reports while decreasing the chance of errors. ADMET's versatile universal testing machines provide a lot of benefit as an allinone solution for any kind of concrete testing including tension, compression, and flexion with automated control and strainrate feedback. Some of the tests that fall into this category include ASTM C307, ASTM C469, ASTM C1609, and EN 14651. The servocontrol motor allows running tests at very slow net deflection rates. Consequently, higher capacity eXpert 2600 models equipped with MTESTQuattro software are often used for running complex testing standards such as ASTM C1609.