

Soil Tester CIST/883/Golf SDI Course Ground Harness Tester



Tools to monitor the surface hardness and properties in a golf course introduction

CIST / 883's Golf Course Tester, designed and produced by SDI, provides a simple and straightforward measure of intensity changes on the test course, determining the surface uniformity of an area. This device consists of a vertical catheter and two 0.5kg hammer probes operated alone in the catheter. We provide 1 golf ball size dome probe with a system, 1 flat top probe. During testing, after the probe is released, it falls freely into the catheter and hits the ground and then slows down. The deceleration rate is determined by the stiffness of the surface impact area of the golf course. The reader is clamped to the catheter, and the displayed reading can be seen at the top during use. Single-button operation design, simple to use.

Data recording performance

The instrument has wireless data transmission components and has airborne data recording and data storage functions. Users can use the computer software provided by the instrument to download the test results from the site to the computer by wireless. Wireless operation greatly improves the reliability of the system.

Surface test

The hardness of the sports field or golf lane is easy to measure, and the display and stored results are very useful for predicting the bounce and turnover of the ball during playing games. Changes in fairway hardness may be influenced by construction processes (e. g. compaction, stability), or environmental influences (e. g. changes in moisture content). It is determined by many factors, such as the compactness and stability of the surface in the construction process, such as humidity changes in environmental impacts, and specific uses in specific locations. The instrument provides a fast and accurate method for detecting hardness variables, and helps to determine the uniformity of a region. The simplest example of an application is to help identify soft surface points or hard surface areas.

Operation principle

This device consists of a pair of 0.5kg sensing probes. Both probes are shown on the right. The probe on the left is hemispherical and has the same diameter as the golf ball. The probe on the right is flat and 50mm in diameter. The equipment is equipped with two probes, suitable for different test requirements. When used, the used probe is placed in the catheter and pulled by the cable. When released, the probe falls in the catheter and hits the ground and then decelerates, with the deceleration rate determined by the stiffness of the material in the impact area. Hardness values were recorded in Gm. The Gm value is an indicator of soil hardness.



Strong design

The CIST / 88 Clegg Impact Soil Tester is very strong and suitable for continuous use in wet, dirty, and severe environments. The CIST / 883 reader consists of high-hardness alloys that have proved to last for decades. The instrument works with two AA batteries and usually has a battery life of up to a year. CIST / 88 Clegg Impact Soil Tester solid. The complete set includes a wooden transport storage box.



How to test

Performing a single test is very straightforward and fast. During testing, the catheter was placed vertically on the ground and the digital reader was mounted on the catheter without hand-holding, and it was very easy to read the data. The probe is pulled up from the cable to the top of the catheter and then falls freely. The final reading is recorded with units and displayed in the screen. Shown on the right is a test example, with 107Gm values shown in the read.

test result

Surface stiffness or hardness is related to whether the ball can bounce and roll quickly. During the play season, due to the water change, the growth and wear of the lawn, we can easily monitor the stiffness change. Hardness changes due to moisture changes, grass growth, and surface wear (depending on the season) can also be easily monitored. Generally, a reading below 75 indicates a soft surface, and a reading of around 100 indicates that the surface is well controlled, perfect for excellent hitting and accurate play. The test data is recorded in the instrument and can be downloaded wirelessly to the computer via Bluetooth

Function:

1. Data record characteristics;
2. Bluetooth wireless data transmission.

Specifications and the order code

CIST/883 spec:	Order code:- CIST/883/Golf/Stor/Blu
model:	CIST/883/Golf/Stor/Blu
Provided hammer head	Golf Hammer head: -dome-shaped, 42.7mm diameter, 0.5 Kg.Flat top hammer head: 50mm diameter, 0.5 Kg.
Selectable hammer weight	An additional 0.5kg hammer weight is attached to support the completion of the 1kg test
Value display (character number form)	The reader carries numerical units, clamped vertically on the catheter and easy to watch
Reading range	1 Gm Step can display up to 500 gravity□Gm□□ Up to 500 Gravities (Gm) in 1 Gm steps.
power	3V Low power supply: 2 "AA" battery packs, located in the battery holder at the bottom of the reader.Sealed up to IP67, usually for 12 months.
Battery grade	Displays on the switch button
Turn on and control	Single button, automatically closed from 5 minutes after the last reading.
Data store in the reader	Storage volume can store 10,000 reads.Each copy includes falling Gm readings, the time date of each test.
Data transmission mode	Bluetooth wireless data transmission, no cable required, freely connected to Microsoft XP or tablet.A Bluetooth USB Dongle is available.
Data type at transfer	CSV file type, used for operating within third-party software, such as Microsoft Excel™.Store, and output 9,999 copies□
system software	SDI provides computer software for easy data transfer, real-time test viewing, time and date settings, and configuration installation.Very easy to use.
Transportation storage box	Model # CIST / WTS / 09. Wooden boxes can provide additional protection in transport
Size & Weight (approx).	60 x 13 x 13 cm□The instrument weighs 2.9 Kg and contains the packaging weight of 8.5 Kg.
quality guarantee period	12 Months