

SOIL ANALYSIS PRODUCTS



WATER ANALYSIS PRODUCTS



TURF NUTRITION ANALYSIS PRODUCTS



GRASS ANALYSIS PRODUCTS



MANAGEMENT PRODUCTS



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Legend:	
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Company History

Turf-Tec International was started by the late Tom Mascaro in 1976 to manufacture tools benefiting Golf Course Superintendents and Sports Turf Managers with everyday maintenance. John Mascaro, Tom's son, now heads Turf-Tec, and is carrying on the family tradition of introducing innovative testing equipment and tools to aid the Golf Course Superintendent, Sports Field Manager, Equine Industry and the Environmental Professional Engineer.



Tom was best known for owning West Point Products Corporation from 1932–1969 and for his invention of the Aerifier in 1946 and the Verti-Cut in 1955, along with over 100 other turf related inventions. With his insight, we have developed a line of diagnostic instruments for turf that, until now, were only available to researchers at universities. These instruments are simple to use yet give meaningful results.

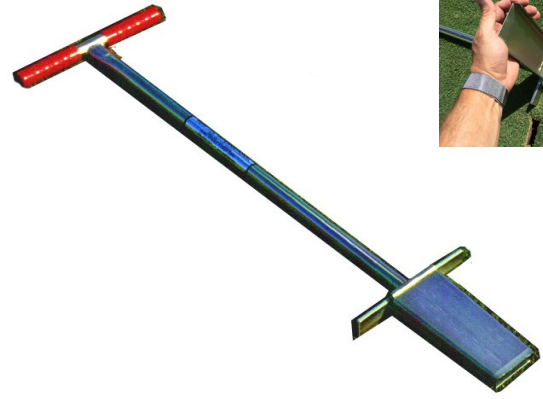
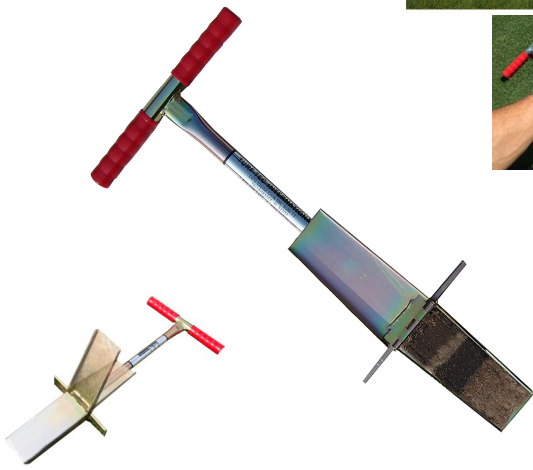
John has been President of Turf-Tec International since 1985 and has invented and developed many of its instruments and tools. He also seeks out only the

highest quality, rugged instruments that compliment our line of diagnostic tools. With an eye on the environment, John has also invented an entire line of infiltration test equipment designed for the Professional Engineer. Turf-Tec International has an additional, separate catalog with these instruments as well. John is also well known for his monthly articles called "John Mascaro's Photo Quiz" that appears in Golf Course Management (GCM) Magazine, the official publication of the GCSAA and SportsField Magazine, the official publication of SFMA.



Turf-Tec International is committed to developing new products and new techniques to keep turf and soil healthy, based upon time-proven methods of finding causes of problems rather than treating symptoms.

Our products are the highest quality, primarily made in the USA and fully warrantied. We look forward to your business.



**Mascaro Profile Sampler
(7 inches deep - 25 inches tall)**

**Heavy Duty Mascaro Profile Sampler
(7 inches deep - 38 inches tall)**

Part #: MPS1-S

Part #: MPS2-S

<http://store.turf-tec.com/mps.html>

<http://store.turf-tec.com/mpshdlit.html>



The Mascaro Profile Sampler is the best soil profile sampler on the market. The sample is extracted through a specially designed hinge opening in the cutter. The Mascaro Profile Sampler takes an undisturbed soil profile instantly, measuring 7 inches deep, 3 inches wide and ½ inch thick. Sample can be photographed and easily replaced without damaging the turfgrass surface. Overall length is 25 inches tall.

The Heavy Duty Mascaro Profile Sampler extracts a cross section of the soil profile with this 7 inch deep, 3 inch wide and ½ inch thick sampler. This heavy duty sampler has a 30 inch long handle with reinforced cutter blades allowing reliable use even in hard or rocky soils. An unmatched quality sample is extracted through a specially designed hinge opening in the cutter. Overall height is 38 inches tall.

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**12 Inch Deep Mascaro Profile Sampler
(12 inches deep - 31 inches tall)**

**Short Mascaro Profile Sampler
(Short Handle 7 inches deep - 19½ inches tall)**

Part #: SPS3-S

Part #: MPS1-S-Short

<http://store.turf-tec.com/mps12lit.html>

<http://store.turf-tec.com/mps-short.html>



The new and improved 12 inch deep, 3 inch wide, and ½ inch thick Mascaro Profile Sampler allows you to clearly inspect the soil profile. The sample is extracted through a specially designed hinge opening in the cutter. Now you can inspect USGA greens and sand-based athletic fields down to the gravel layer. This sampler is useful in examining the entire soil profile at one time without disturbing the surface. Overall length is 31 inches tall.

This is the same as the MPS1-S Mascaro Profile Sampler but this unit has a short handle welded onto the cutter blade. The sample is extracted through a specially designed hinge opening in the cutter. This soil sampler takes an undisturbed instant soil profile 7 inches deep, 3 inches wide and ½ inch thick. The short model is ideal for placing inside a briefcase or suitcase for traveling. Overall length is 19½ inches tall.

MADE IN USA

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Click or Scan QR Code for Price List

<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



**Tubular Soil Sampler
(15 inch deep sample - 21 inches tall)**

**Tubular Soil Sampler w/Step
(16 inch deep sample - 36 inches tall)**

Part #: TSS1-S

<http://store.turf-tec.com/tss1lit.html>



Part #: TSS2-S

<http://store.turf-tec.com/tss2lit.html>



This Tubular Soil Sampler extracts a core sample 15 inches deep and 3/4 inch wide. The rugged all steel design is a one piece welded unit made in the USA - not an import. The unit is chrome-plated for a long life and the Tubular Soil Sampler also has a replaceable cutting tip. Overall unit is 21 inches tall.

MADE IN USA

The Turf-Tec Tubular Soil Sampler is a 100% stainless steel sampler that has a step on the handle for easy insertion into the soil. The stainless design allows for laboratory analysis of clean soil samples. Foot peg is welded at 17 1/2 inches from bottom. The 36 inch Tubular Soil Sampler extracts a sample 16 inches deep by 3/4 inch wide. Overall unit is 36 inches tall.

MADE IN USA

TSS1A-A Tubular Soil Sampler Replacement Tip



**Tubular Soil Sampler w/step
(12 inch deep sample - 36 inches tall)**

**Pocket Tubular Soil Sampler
1/2 inch diameter sample 8 1/2 inch tall**

Part #: TSS2-12-S

<http://store.turf-tec.com/tss2-12-lit.html>



Part #: TSS3-S

<http://store.turf-tec.com/tss3lit.html>

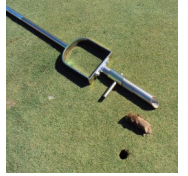


The Turf-Tec Tubular Soil Sampler is a 100% stainless steel sampler that has a step on the handle for easy insertion into the soil. Stainless design allows for laboratory analysis of clean soil samples. Foot peg is welded at 13 inches from bottom and extracts a core sample that is 12 inches deep. The 36 inch Tubular Soil Sampler extracts a sample 12 inches deep by 3/4 inch wide. Overall unit is 36 inches tall.

MADE IN USA

The Turf-Tec Pocket Tubular Soil Samplers extract a sample 1/2 inch diameter (13 mm). This tool is the smallest diameter tubular soil sampler in the business. The units 1/2 inch diameter sampling tube is made of Stainless Steel and extracts a 6 inch deep sample. The rugged but lightweight sampler is perfect for quick soil sampling of areas without leaving behind a large hole. The sampler is 1/2 inch in diameter & 3 inches wide & 8 1/2 inches tall.

MADE IN USA



Turf-Tec Tall Tubular Soil Sampler 1/2 inch diameter & 21" tall

Part #: TSS4-S
<http://store.turf-tec.com/tss4lit.html>



Turf-Tec Tall Tubular Soil Sampler - 1/2 inch diameter sampler (13 mm). This tool is the thinnest diameter tubular soil sampler in the business. It's made entirely of Stainless Steel. The unit removes a soil sample core - 6 inches deep with each insertion into the soil. Simply remove the unit from the ground, empty the soil and repeat the sampling process until the 21 inch depth is obtained. Overall height is 21 inches.

MADE IN USA

Plug Popper Soil Sampler (1 1/2 inch diameter by 50 inches tall)

Part #: PLUGPOP-01-S
<http://store.turf-tec.com/plug-popper-lit.html>



The Plug Popper features a patented piston design and a stainless steel sampling tip that allows you to take a plug that is 1 1/2 inches in diameter and 4 inches deep. After the plug is removed, simply push down on the ejection foot peg to eject the sample. The probe can also be used to assist in seedling planting and fertilizer tablet applications. The soil probe is constructed of zinc-coated steel and stainless steel for durability and long life. Take samples without bending over! Overall height is 50 inches.

MADE IN USA



Brass Sieve Set for Sand 8 inch diameter - USGA Specifications

Part #: BS1-S
<http://store.turf-tec.com/bs1lit.html>



Test your own sand with a complete set of six Brass Sand Sieves. Excellent for new greens, sports field construction, testing topdressing sand, and bunker sands as well as being helpful in testing existing soil profiles. The set provides a full USGA breakdown. The sand set includes a top, 2.0, 1.0, 0.5, 0.25, 0.15 and 0.05 mm sizes as well as a bottom pan. Set is 8 inches in diameter and are solid brass with bronze screens.

MADE IN USA

Brass Sieve Set for Gravel 8 inch diameter - USGA Specifications

Part #: BS2-S
<http://store.turf-tec.com/bs2lit.html>



Test your own drainage gravel or synthetic field base material with a complete set of five Brass Gravel Sieves. Excellent for new greens and sports field construction. This set provides a full USGA breakdown of gravel size aggregate. The gravel set includes a top, 3/8, 1/2, 3/4 inch and 2.00 mm sizes as well as a bottom pan. Sets are 8 inches in diameter and are solid brass with stainless steel or bronze screens.

MADE IN USA



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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec Acrylic Sieve Set

Sand Penetrometer

Part #: AS1-S

Part #: PN5-S

<http://store.turf-tec.com/aslit.html>

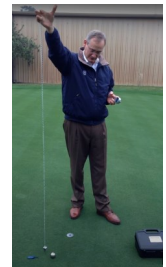
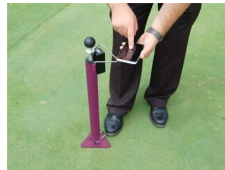
<http://store.turf-tec.com/pn5lit.html>



The Turf-Tec Acrylic Sieve Set has 5 clear acrylic cylinders, 2 inches in diameter. The set comes with 20 assorted mesh sizes from 4.75 mm to 0.05 mm and includes the sizes for a USGA particle analysis along with cover, a bottom and a frame calibrated in percentages. Screen sizes: 1.18, 1.00, 0.85, 0.71, 0.60, 0.50, 0.425, 0.25, 0.15, 0.125, 0.10, 0.075, 0.063, 0.050 mm.

Use the Sand Penetrometer to determine the likelihood of having fried egg lie development in your sand traps. With the easy to use Sand Penetrometer, you can test your bunker sand right on your own golf course. Units come fully calibrated with easy to follow instructions. Simply insert the tool into the sand, press down on the handle and read the scale.

MADE IN USA



Field Scout TruFirm Tester

Precision Putting Green Digital Firmness Meter

Part #: TRUFIRMBT-1-S

Part #: GFM-01-S

<http://store.turf-tec.com/tru-firm-lit.html>

<https://store.turf-tec.com/gfm-01.html>



Based on technology developed by the USGA, the Field Scout TruFirm offers an easy method to measure the firmness of golf greens and bunker sands. The unit uses a golf ball shaped impact hammer and the mass is dropped from a consistent height and the maximum turf penetration value is recorded and correlated to the surface firmness. The lower the penetration value, the firmer the turf. The logged data can be sent via Bluetooth to a mobile device with the free app. This allows analysis of greens over nine segments to evaluate trends and compare sections of each green. The unit also works with SpecConnect paid app.

The Precision Putting Green Firmness Compaction Meter allows you to test the firmness on golf green surfaces simply and easily by dropping a predetermined weighted steel ball onto the putting surface. After the weight is dropped, the surface penetration is measured with the depth gauge. The Precision Putting Green Firmness Compaction Meter allows you to create your own site-specific firmness standards. It is easy to use and maintain with a high quality battery operated digital gauge. Confirms results of watering and topdressing practices for PGA tournament requirements.

MADE IN USA

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Clegg Impact Tester 2.25 kg unit

Part #: PNCLEGG-S-2.25A-FCASE 2.25 kg Model 0 to 150 Gravities w/ factory case (Sports Fields)

Part #: PNCLEGG-S-2.25 2.25 kg Model 0 to 500 Gravities with factory case (Equine and baseball)

<http://store.turf-tec.com/clegg.html>



Clegg Impact Tester 0.5 kg unit

Part #	Description
PNCLEGG-S-0.5	Clegg Impact Soil Tester 0.5 kg Model with factory hard case (Golf Greens)

<https://store.turf-tec.com/products/PNCLEGG-S-05.html>



The 2.25 kg Clegg Impact Tester is used to determine the hardness of all types of sports fields and playing surface areas. Readings are in Gravities (gMax), CIT's and F355 Equivalent and has a wireless Bluetooth display, GPS enabled tablet with data logging and mapping.

The PNCLEGG-S-2.25-A is a 2.25A kg Model used for testing natural grass & synthetic turf athletic fields and reads from 0 to 150 Gravities, 0 to 15 CIT's or 0 to 218 - F355 gMax equivalent readings. This model is the same model that is used to test all National Football League (NFL) Stadium Fields before games. App also converts readings to F355 equivalent. The 150 gMax reading on this unit is sufficient for maximum impact readings in the ASTM F355 range after using the conversion formula. 200 g's on F355 Impact Tester = 135 g's on Clegg Impact Tester.

The PNCLEGG-S-2.25 is a 2.25 kg Model used for Equine testing on Dirt, Turf, Synthetic and Grass racetracks, arenas, equestrian areas and all equine areas. It conforms to standards testing for Horse Racing Integrity and Safety Act (HISA) for the racetrack safety program.

The principle behind the Clegg Impact Soil Tester or Clegg Decelerometer, is to obtain a measurement of the deceleration of a free falling mass (hammer) from a set height onto a surface to determine hardness. The impact of the hammer produces an electrical pulse, which is converted and displayed on the GPS enabled tablet in gravities "gMax", tens of gravities "CIT" or F355 equivalent units. Reference ASTM test methods ASTM 1936, ASTM F355, D5874 and F1702. The Clegg offers the convenience of rapidly testing compaction variations over large areas.

MADE IN USA

The Clegg Impact Tester 0.5 kg Model is used for testing Golf Greens, approaches and bunker sand. The hammer is lightweight so it will not damage putting green surfaces during testing.

Readings are in Gravities (gMax), CIT's and F355 Equivalent and has wireless Bluetooth display, GPS enabled tablet with data logging and GPS mapping.

This unit gives firmness readings in gMax which shows the deceleration of the impact hammer as it interacts with the golf greens surface. By pairing the gMax readings with moisture readings, you can achieve uniform surface firmness on each greens surface for each putting green on the entire course. These readings have been studied for many years and multiple scientific studies exist showing the use of gMax for golf green firmness. In addition, the unit is accurate and results are repeatable. Since the Bluetooth enabled tablet GPS maps each drop, a quick visual representation of the course can be seen on the tablet. Results of the testing can also be exported into an CVS format and emailed directly from the tablet to others.

The principle behind the Clegg Impact Soil Tester or Clegg Decelerometer, is to obtain a measurement of the deceleration of a free falling mass (hammer) from a set height onto a surface to determine hardness. The impact of the hammer produces an electrical pulse, which is converted and displayed on the GPS enabled tablet in gravities "gMax", tens of gravities "CIT" or F355 equivalent units. Reference ASTM test methods ASTM 1936, ASTM F355, D5874 and F1702. The Clegg offers the convenience of rapidly testing compaction variations over large areas.

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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Triax Touch gMax Impact Tester & Hard Case

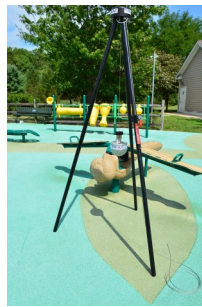
Part #: PN-TRIAX-GMAX-01-S

<https://store.turf-tec.com/products/pn-triax-gmax.html>



The Triax Touch gMax Impact Tester is used to measure the impact safety of artificial and natural turf playing surfaces in compliance with standards including ASTM F1936 and ASTM F355. The impact hammer is cylindrical shaped with a flat bottom and has a weight of 20.0 pounds. The hammer is dropped in a guide tube from a fixed height of 24 inches and results are displayed on the wireless handheld tablet. Drop test data can also be transferred from a removable SD card onto the Triax software on a PC or laptop computer.

MADE IN USA



Triax Touch HIC Impact Tester with tripod and hard case

Part #: PN-TRIAX-HIC-01-S

<https://store.turf-tec.com/products/pn-triax-hic.html>



The Triax Touch HIC Impact Tester with tripod is used to measure the impact attenuation of surfaces under and around playground equipment in compliance with worldwide ASTM standards for safety. The unit has a hemispherical shaped impact hammer with a weight of 10.1 pounds. The hammer is dropped from an adjustable height tripod and the hammer can be dropped from variable but consistent heights. Readings of HIC (Head Impact Criteria), height of drop, angle of impact, with a time and date stamp, and drop test data are displayed on the handheld control unit and can be transferred from a removable SD card onto the Triax software on a PC or laptop computer.

MADE IN USA



FieldTester (3A Model) v4 ASTM FIFA Impact Tester with Clegg Hammer Equivalents

Part #: PN-FieldTester-3A-V4

<https://store.turf-tec.com/pn-fieldtester.html>

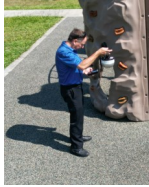
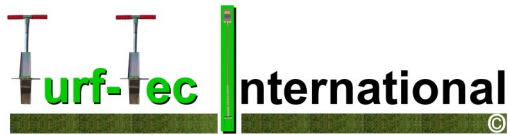


The Deltec FieldTester (3A Model) V4 FIFA Impact Tester with Clegg Hammer Equivalents is a lightweight, simple, and quick test device that measures gMax, Force Reduction, Vertical Deformation, Energy Restitution and also gives Clegg Hammer (CIST/gMax) equivalent readings. It is useful in measuring athletic field surface safety and playability as well as surface uniformity for football, soccer, baseball, softball, polo, lacrosse and almost any indoor sport. The unit conforms to ASTM, FIFA and CEN/TS test procedures for measuring the safety of natural and synthetic sports field playing surfaces. It is easy to carry and operate. It has a built-in universal axial speed sensor and uses a spring and foot plate similar to the 3A Artificial Athlete testing device, and it produces comparable test results.

The FieldTester comes with a wireless measurement application that is compatible with iOS and comes with all the items necessary to perform testing including an iPod for use with the device. The FieldTester application generates fast results that are stored in the application immediately after the measurement, and are also displayed on the tablet screen. Deltec FieldTester (3A Model) V4 FIFA Impact Tester with Clegg Hammer Equivalents allows you to monitor the quality of the maintenance of various sports and playing surfaces and measure the desired technical characteristics. The tool is user-friendly and easy to move from test area to test area with a overall weight of approximately 22 lbs (10 kilos).

Vertical Deformation measures the vertical compression of the surface.
Force Reduction measures the percentage of shock absorption that the surface provides as compared to concrete (0%).
Energy Restitution is the energy returned to the lower extremities of an adult running athlete as compared to concrete.

MADE IN EUROPE



GofactorGO Playground Impact Tester with hard Case

Turf-Tec Penetrometer

Part #: PN-GoFactorGO-S
<https://store.turf-tec.com/products/pn-gfactorgo-s.html>



Part #: PN1-S
<http://store.turf-tec.com/pn1it.html>



The GofactorGO Wireless Playground Impact Tester is a simple tool designed to test surfaces where playground equipment exists and children or athletes play. It is intended to be used to measure the impact attenuation of surfaces under and around playground equipment for safe playing surfaces. The 10.1 pound Impact Tester has a head shaped form and when dropped, wirelessly sends peak gMax, HIC (Head Impact Criteria), height of drop, angle of impact with a time and date stamp to the handheld control unit and drop test data can also be transferred from a removable SD card into the Triax software on a PC or laptop computer.

The Turf-Tec Penetrometer is a gravity operated instrument used to determine soil compaction. The unit is calibrated in percentages from 0-100% to determine the need for aeration and to monitor soil compaction. A weighted shaft is raised then dropped from a known height and a blunt penetrating point enters the soil, showing the percentage of air space in the soil. This Penetrometer shows the surface compaction of the soil and the hardness of the surface. It can also be used to determine consistency between greens and sports fields before tournaments in relation to ball bounce. It also gives readings predicting ball roll based on surface compaction.

MADE IN USA



Digital Soil Compaction Tester

Turf-Tec Soil Compaction Tester Dial Penetrometer

Part #: PN-COMP-DIG-S
<http://store.turf-tec.com/pn-comp-dig-lit.html>



Part #: PN-COMP1-S
<http://store.turf-tec.com/pn-comp1-lit.html>



The Digital Soil Compaction Tester is a digital version of the Dial Penetrometer used for testing hard pans in the soil. It uses an electronic force sensor that eliminates changing tip size for different soil types. The LCD display reads in PSI or kPa PLUS showing compaction severity with green/yellow/red color code. It is rugged and meets ASABE S313.3 Soil Compaction Standard. Overall height is 37½ inches tall.

The Soil Compaction Tester/Dial Penetrometer is a simple tool used to measure hard pans in the soil. It uses downward pressure to determine soil compaction in PSI at different depths in the soil profile. It shows if you have layers or hard pans in the soil up to 27½ inches (70 cm) deep. This unit also comes with two tips: one for hard soils and one for softer soils. Overall height is 35 inches tall.

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Click or Scan QR Code for Price List
<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Digital Thermometer - Spot On

Infrared Turf Thermometer (w/laser)

Part #: DT3-S

Part #: IR1-S

<http://store.turf-tec.com/products/DT3-S.html>

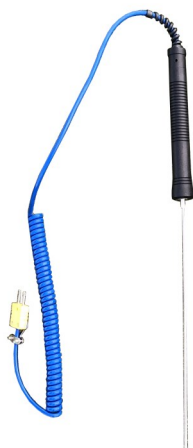
<http://store.turf-tec.com/ir1lit.html>



The Turf-Tec Spot On Digital Soil Thermometer is a strong, specially designed soil thermometer that has a 36 inch tall shaft and a 4 inch tall temperature probe. This unit easily measures temperature in the thatch, mat, and the soil rootzone. It is extremely rugged and the height of the Turf-Tec Spot On Digital Soil Thermometer read out scale is three feet above the turf for easy reading.

The Turf-Tec Infrared Thermometer is easy to use, and since it does not have to make contact with the turf, it's a quick way to assess turfgrass stress. Displays Fahrenheit or Celsius. Simply point the laser at the area, pull the trigger and read the LCD screen. This thermometer is also Ideal for synthetic turf to ensure player safety.

MADE IN USA



Infrared Turf Thermometer with detachable soil probe (Fahrenheit & Celsius)

Pocket Digital Thermometer (Fahrenheit & Celsius)

Part #: IR2-S

Part #: DPT2-S

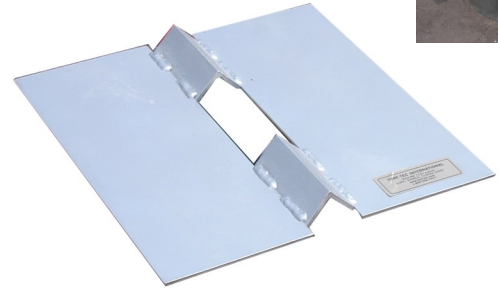
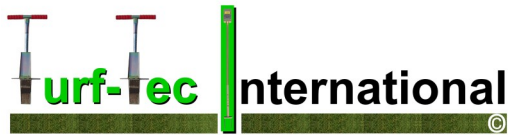
<http://store.turf-tec.com/ir2lit.html>

<http://store.turf-tec.com/dpt-lit.html>



The Turf-Tec Infrared Turf Thermometer with probe is easy to use, and since it does not have to make contact with the turf, it is a quick way to access turfgrass stress. Using an infrared thermometer will eliminate potential damage and contamination. The Turf-Tec Infrared Turf Thermometer with probe is easy to use, just pull the trigger, aim the laser and the temperature is displayed on the large, backlit display. This new unit also comes with a temperature probe so you can also test the soil temperature with one compact unit. Unit includes hard case.

The Pocket Digital Thermometer is easy to carry and tells the soil temperature within 10 seconds. Unit is very durable with a temperature range of -40F to 300F (-40C to 150C). Readings are taken from the tip of the probe, so you can check different levels in the soil profile. Ideal for quick temperature readings for pre-emergence weed control accuracy. Unit folds up to protect the 3/4 inch long probe.



Turf-Tec Infiltrometer

Turf-Tec Driving Plate for 6 & 12 inch Rings

Part #: IN2-W

Part #: IN6-W

<http://store.turf-tec.com/in2lit.html>

<http://store.turf-tec.com/IN6lit.html>



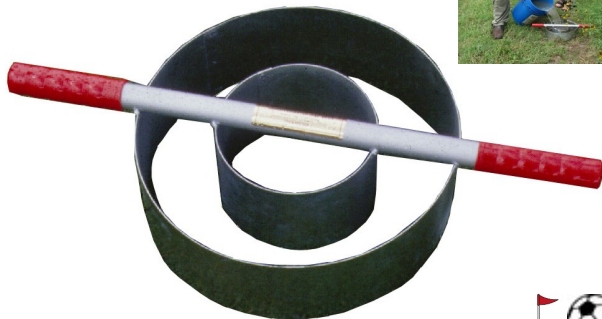
The Turf-Tec Infiltrometer is ideal for determining water infiltration rates right on the turfgrass area in a matter of minutes. The unit determines soil porosity and its ability to drain water. Use it to determine how long to irrigate, when to aerify and also where diseases will occur. Areas can be monitored periodically to determine whether infiltration is staying constant or decreasing. This tool is the most useful instrument in determining soil health and overall grass performance. By using infiltration rates, you can determine the amount of pore space in the soil profile. It is also useful in determining how soon a sports field or golf green will be playable after a rain event.

Driving Plates for IN7 and IN8 rings. The new driving plate for the Turf-Tec 6 & 12 inch Infiltration Rings allow the rings to be hammered into the ground with ease of insertion. The specially designed plate fits directly overtop the center handle assembly on the IN7-W and IN8-W Model Infiltration Rings. The driving plates are made of 1/4 inch thick steel and are welded together to provide strength. The driving plates can be used with a hammer or with the jacking method allowing an even distribution of weight for proper soil insertion.

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Additional infiltration rings available on our website



Turf-Tec Heavy Duty Infiltration Rings (6 & 12 inch diameter and 4 inches tall)

Turf-Tec Heavy Duty Tall Infiltration Rings (6 & 12 inch diameter and 7 inches tall)

Part #: IN7-W

Part #: IN8-W

<http://store.turf-tec.com/in7lit.html>

<http://store.turf-tec.com/in8lit.html>



The Turf-Tec Infiltration Rings allow for field infiltration rates to be measured directly in the soil. It has a 6 inch inner ring and a 12 inch outer ring. A welded gripped handle is attached to galvanized rings to allow easy insertion into the soil and to ensure proper centering of the rings. When inserted into the soil down to a two inch depth, it will allow two inches of water to be on the soil surface. These rings are constructed out of sturdy 16 gauge galvanized steel.

The Turf-Tec Heavy Duty Tall Infiltration Rings allow infiltration rates to be measured directly in the soil. This tool conforms to the Pennsylvania Stormwater Best Management Practices (BMP) Manual. The Turf-Tec Heavy Duty Tall Infiltration Rings have a 6 inch inner ring and a 12 inch outer ring with a 7 inch height, which allows 5 inches of water to be on the soil surface when installed two inches deep. A gripped rubber handle is welded across the rings to keep them concentric and allow easy insertion into, and removal from, the soil.

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International



WATER ANALYSIS PRODUCTS

Turf-Tec Analog Moisture Sensor	
Part #: MS1-W	
http://store.turf-tec.com/mslit.html	



Turf-Tec Digital Moisture Sensor	
Part #: MS6-W	
http://store.turf-tec.com/ms6-lit.html	


The Turf-Tec Analog Moisture Sensor is one of the most necessary tools on the golf course or sports field. The Moisture Sensor is calibrated in percentages and read outs are immediate. Check moisture at any level from 1 inch to 4 inches deep. Quick adjustable base allows easy depth adjustment for readings above the root zone, in the root zone and below the root zone. By monitoring moisture in the soil, you can be sure the correct amount of irrigation is being applied each time you water. Unit will also identify dry spots before they become visually apparent without causing damage to stressed turfgrass. Water movement problems, like layers, are easily detected with the variable depth feature. Readings are in percentages from 0-100%. Tournament officials also recommend monitoring moisture before a tournament to ensure uniformity from green to green and different areas on an athletic field like goal mouths and red zones.

From the inventors of one of the first portable moisture sensors available to the turfgrass industry comes the new Turf-Tec Digital Moisture Sensor. The Turf-Tec Digital Moisture Sensor has been developed to determine soil moisture at different levels in the soil profile. The unit has an adjustable foot which allows you to determine moisture localized at the 1, 2, 3 or 4 inch depth without changing probes. This will ensure you can determine the soil moisture above, below and in the turfgrass rootzone for maximum water savings and plant health. Simply slide the adjustable foot to the desired depth, insert the Turf-Tec Digital Moisture Sensor into the soil and press the read button. The read out is a percentage of soil moisture that is held within the air space in the soil. This state of the art unit is designed to work in all soil types and salinity ranges as the unit is fully adjustable to match moisture percentages for different soil types and organic matter content. The probes are also easily replaceable. The Turf-Tec Digital Moisture Sensor uses a newly designed electrical conductivity sensing circuit that gives quick and reliable readings of soil moisture.

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Moisture Sensor Replacement Parts	
TTMP75-W	Turf-Tec MS1-W Replacement Probe 
TTMP26-W	Turf-Tec MS1 Replacement 4" Spikes (Set of 2) 

MS6-P001	Turf-Tec Digital Moisture Sensor Probes (Set of 2) 
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Field Scout TDR 150 Handheld Digital Moisture Sensor (w/case) - NO PROBES

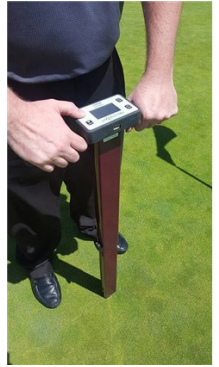
Part #: MSFS-TDR150-W (Also See Probes)

<http://store.turf-tec.com/msfs-tdr150.html>



The Field Scout TDR 150 Digital Moisture Sensor with case has two volumetric water content modes; one for standard soils and one for higher clay soils. With new enhancements, the TDR 150 provides significant improvements in performance and measurement accuracy. Improved measurement of soil moisture VWC (Volumetric Water Content), measures EC (Electrical Conductivity), measures Soil Surface Temperature, data logger and option to add on Bluetooth and GPS. Handheld design allows for easy transportation and storage. Unit connected by 5 ft. cable. **Probes sold separately.**

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Field Scout TDR 350 Digital Moisture Sensor w/ 1 set Probes and Soft Case

Part #: <http://store.turf-tec.com/msfs-tdr350.html>
MSFS-TRD350-1.5 - Field Scout TDR 350 with 1.5 in probe set
MSFS-TRD350-3.0 - Field Scout TDR 350 with 3.0 in probe set
MSFS-TRD350-4.8 - Field Scout TDR 350 with 4.8 in probe set
MSFS-TRD350-8.0 - Field Scout TDR 350 with 8.0 in probe set

The Field Scout TDR 350 displays VWC (Volumetric Water Content) soil moisture readings, EC (Electrical Conductivity) measurement, turf surface temperature measurement, a backlit display, integrated Bluetooth, internal GPS and data logging in addition to offering the proven time-domain measurement technology that turf professionals have come to trust in the Field Scout TDR brand. This unit takes into account EC readings and integrates that reading into the TDR results, giving consistent readings no matter the soil EC level. Mapping software required for GPS mapping (Not included but optional).

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Field Scout TDR 250 Digital Moisture Sensor VWC% Only - NO PROBES

Part #: MSFS-TDR250-W (Also See Probes)

<https://store.turf-tec.com/products/msfs-tdr250.html>



New for 2021 the Field Scout TDR 250 Digital Moisture Sensor is a slimmed down version of the TDR 350. This simple to use moisture sensor displays the measurement of soil moisture in VWC (Volumetric Water Content). It does not have all the features of the TDR 350 as it does not record GPS, EC or Temperature. It gives basic VWC readings. Unit accepts 1.5, 3.0, 4.8 & 8.0 inches deep probes – Sold separately. The unit also displays soil type, battery, has a backlit display and data logging capabilities. Measurements can be set to match TDR 350. It is not compatible with SpecConnect or Field Scout App. **Probes sold separately.**

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Probes

- MSFSFP01- Replacement Probes 1.5 inch (3.8 cm)**
- MSFSFP03- Replacement Probes 3.0 inch (7.5 cm)**
- MSFSFP04- Replacement Probes 4.8 inch (12 cm)**
- MSFSFP05- Replacement Probes 8.0 inch (20 cm)**



Replacement Parts

- MSFS1-CASE- Replacement Soft Carrying Case**
- MSFS1-SC- SpecConnect 1 year Subscription 1-3 Devices**
- MSFS1-SC4- SpecConnect 1 year Subscription 4-7 Devices**
- MSFS1-SC8- SpecConnect 1 year Subscription 8+ Devices**
- MSFS-IR-TEMP1-W- Infrared Temperature Sensor for TDR 350**
- MSFS-SPACER- Rod Spacer for 1/2" & 1" Depth (1.5" Rods Sold separately)**



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WATER ANALYSIS PRODUCTS



Spot On Soil VWC Moisture Meter with 1.5 and 2.4 inch rods

<https://store.turf-tec.com/products/MSTDR-SPOT.html>

Part #: MSVWC-SPOT

The new Spot On Soil VWC Soil Moisture Meter gives continuous reading of VWC (volumetric water content) in a moisture sensor for quick moisture readings (no button pressing required).

The unit also measures and displays salinity (EC) in ms/cm. EC reading taken at the same time as VWC Moisture Readings ensure moisture readings are consistent in different soil types and salinity ranges. The unit can also be set to display large format VWC Moisture or display VWC Moisture, EC and surface temperature on the same screen.

The Spot On VWC Moisture Meter also allows you to see the average readings of the last several readings taken. The unit comes complete with both 1.5 and 2.4 inch probes that are rubber mounted to resist bending in dry or rocky soils. This unit has a brand new ultra-high frequency (100 MHz) measuring circuit that provides accurate moisture measurements in a variety of soil types and salinity levels.

MADE IN USA

Replacement Probes

MSVWC-SPOTP01 - Two 1.5 inch (3.80 cm) Rods for Spot On VWC Moisture Meter

MSVWC-SPOTP03 - Two 2.4 inch (6.09 cm) Rods



Turf-Tec Model R Irrrometer - Tensiometers

<http://store.turf-tec.com/irrometer-lit.html>



- IRR6-W - 6 inch Model Deep Irrrometer
- IRR12-W - 12 inch Model Deep Irrrometer
- IRR24-W - 24 inch Model Deep Irrrometer
- IRR36-W - 36 inch Model Deep Irrrometer
- IRRKIT-W - Irrrometer Service Kit* (Required)

The Model R is the standard one-piece Irrrometer for general use with irrigated row, tree, and field crops, but can also be used in greenhouse and nursery applications or for monitoring Vadose Zones. Insert it into the soil and after 24 hours, the ceramic block will reach equilibrium with the soil and give the moisture level. Leave it installed in the soil and you can periodically check to see when your crops or trees need additional irrigation. *Note: 1 Service Kit Required to Set Up

MADE IN USA



Evapotranspiration (ET) Gauge

Part #: ETG1-W

<http://store.turf-tec.com/etgagelit.html>



This Evapotranspiration Gauge easily shows the amount of water needed for irrigation by reading the sight glass. All you add is distilled water. Daily readings can be taken to save water. The top of the unit is constructed from a ceramic plate that is covered with a green cloth fabric to emulate the turfgrass canopy. As water evaporates off the top of the ET Gauge, the sight glass on the side indicates the Evapotranspiration level. Irrigation can be applied based upon actual simulated turfgrass usage. The unit comes with mounting bracket and full instruction manual on calculating ET rates.

MADE IN USA



Kestrel Wind & Pocket Weather Meter

Kestrel Wet Bulb Heat Stress Tracker Wind Meter & Weather Meter

Part #: WIND2-M

<http://store.turf-tec.com/products/WIND2-M.html>



Part #: WIND3-M - Non-Bluetooth Unit

Part #: WIND3-BT-M - Bluetooth Unit

<http://store.turf-tec.com/products/WIND3-M.html>



The Kestrel Wind & Pocket Weather Meter is designed as a full wind and weather meter. It can measure environmental variables such as temperature, wind speeds, altitude, barometric pressure & trends and has a backlit display. This rugged meter provides a complete range of reliable weather measurements. This unit is an ideal weather instrument for Sports Turf Managers, Golf Course Superintendents, Environmental Engineers, and all Certified Pest Control Operators (CPCO). It has an external temperature sensor with a waterproof casing. The highly sensitive and user-replaceable impeller technology provides accurate wind speed info. A hard slide-on case, lanyard, and battery are included.

MADE IN USA

This unit is ideal for FIFA and professional athletes, trainers and coaches. It ensures you meet local & regional sports requirements for player, participant and employee safety measurements for heat stress. Unit has a Wet Bulb Global Temperature (WBGT) reading and Thermal Work Limit (TWL) with on-screen and flashing LED alarm when conditions enter the caution and danger zones. The unit also displays natural wet bulb temperature and black globe temperature and has a 5-year warranty. The Bluetooth model allows you to use a free app or download data to your computer.

MADE IN USA



Light Meter for Quantum PAR - Spot On

Light Meter (Daylight Indicator)

Part #: LIGHT-DLI-W

<http://store.turf-tec.com/light-meter-lit.html>



Part #: LIGHT-PAR-W

<https://store.turf-tec.com/products/LIGHT-PAR-W.html>



This simple water resistant light meter measures light intensity levels every 4 seconds over a 24 hour period by measuring Photosynthetically Active Radiation (PAR). Simply place it on the green, tee, fairway area, sports field or stadium to be tested and 24 hours later, it will display your Daily Light Integral (DLI). One light indicates poor turf potential while four lights indicates excellent growing conditions. Battery included.

MADE IN USA

The Turf-Tec Light Meter for Quantum PAR by Spot On is an affordable light meter that provides scientifically accurate Photosynthetic Active Radiation (PAR) light readings. This meter is designed for measuring PAR light indoors and outdoors regardless of light source type. It works well for Golf Greens, Sports Fields, Stadiums, Greenhouses, Agricultural Fields, and for R&D applications requiring reliable plant growth light readings.

MADE IN USA



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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec Precipitation/Uniformity Gauge

Pitot Tube Digital SpotOn Irrigation Pressure Tester

Part #: PUGS2-W

<http://store.turf-tec.com/puglit.html>



Part #: PITOT-01

<https://store.turf-tec.com/products/pitot-01.html>



This set of 20 calibrated gauges will indicate how much water each sprinkler head is applying as well as showing the uniformity of the coverage. Simply set out the gauges between the sprinkler heads and run your irrigation cycle for 15 minutes. Precipitation and Uniformity Gauges can be set up in a head to head layout or in a grid pattern. Sold in a set of 16 large gauges and 4 small gauges for a total of 20 gauges and 20 stainless steel support spikes. Gauges are calibrated in 1/10th of an inch and millimeters.

MADE IN USA

This handy handheld digital Pitot Tube measures water pressure right at the irrigation nozzle. Simply turn the digital irrigation nozzle tester on, place the 90 degree opening into the irrigation stream of water at the head and read the gauge. The digital read out on the Spot On Pitot Tube Irrigation Nozzle Pressure Tester instantly reads the irrigation flow pressure. This tool can be used in irrigation audits and also to ensure irrigation head pressure is optimal.

MADE IN USA



Donut Trimmer Edging Blades w/ Throttle Stop (Set of 6 blades)

Turf-Tec Trim-Clean Sprinkler Head Trimmer

Part #: DTB___-M (size) available in 6, 7 or 8 inch

<http://store.turf-tec.com/dteblit.html>



Part #: TCLEAN___-M (size) 5, 6, 7 or 8 Inch

<http://store.turf-tec.com/trim.html>



The Donut Trimmer is a U-shaped rotary edging blade specially designed for use on most commercial weed eaters. These edging blades easily trim around sprinkler heads, yardage markers and storm drains as well as edging cart paths, railroad ties and bunkers in minutes. The blades come in three different sizes: 6 inch, 7 inch and 8 inch diameters. By selecting the proper size blade, you can perform trimming tasks that most other trimmers find impossible. The ease of operation allows turfgrass managers to maintain well tailored turfgrass areas at a very reduced labor cost. Six blades per package and throttle stop. **MADE IN USA**

This tool is simply inserted over sprinkler heads and heavy gauge serrated stainless steel blade is rotated to cut grass and stolons around head. Unit has interchangeable heads that allow 5", 6", 7" or 8" (12.5, 15.0, 17.5 & 20 cm) blades to be attached to the 32 inch heavy duty handle. Note: inch size is outside diameter so units trim about 1/8" smaller. Trim Clean is sold with one handle and one cutter blade. Please specify cutter blade size when ordering. **MADE IN USA**

Accessories

TCLEANB___-M (Size)
Replacement Blade 5, 6, 7 or 8 Inch Diameter





NASA Turf Stress Detection Glasses (kit)

Part #: TSDG1-N
<http://store.turf-tec.com/tsdq-lit.html>



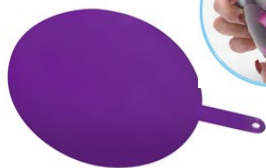
Turf Stress Detection Glasses

Part #: TSDG5-N
<http://store.turf-tec.com/tsdq5-Lit.html>



NASA space technology has given you the ability to spot stressed turf close up or at a distance. With these new Turf Stress Detection Glasses, you can spot problem areas on your grass before they become visually apparent. These stress glasses give you plenty of time to react to correct any unhealthy conditions because problems are spotted much sooner than without the glasses. Set includes stress detecting glasses, carrying case, micro-filter cloth and extra sun protection pop-in lens.

With these Turf Stress Detection Glasses, you can spot problem areas on your grass or plants before they become visually apparent. These stress glasses give you plenty of time to react to correct any unhealthy conditions because problems are spotted much sooner than without the glasses. They are excellent to see drought stress, diseases and insect activity and for IPM scouting. Also see mowing areas on semi dormant turf. On athletic fields you can see logos and lines previously painted without laying out the field again.



NASA Turf Stress Detection Camera Lens Filter

Part #: TSDL1-N
<http://store.turf-tec.com/TSDL1-N.html>



With the Turf Stress Detection Camera Lens Filter, you can photograph problem areas on your turfgrass before they become visually apparent. Simply hold the lens filter up to any camera lens or smartphone and shoot the photograph through it.



NASA Turf Stress Detection Glasses (Over Glasses)

Part #: TSDG-Over-N
<http://store.turf-tec.com/TSDG-Over-N.html>



With the Turf Stress Detection Over Glasses you can have all the features of the high quality Turf Stress Detection Glasses (TSDG1) with the ability to be able to wear your prescription glasses underneath these over glasses.

turf stress detection guide

disease		fusarium patch disease
		pythium blight disease
		yellow patch (rhizoctonia)
		brown patch
		anthracnose
water		get a jump on broken or poor-performing sprinklers
		highly efficient spot watering saves time and labor costs
invasion		poa grass invasion identified BEFORE it takes over
		superior weed location and spraying saves time and money
		accurate evaluation of sick or dying trees for treatment or removal
		early warning of high traffic activity allows preemptive action to aid healing
maintenance		checks mower cut quality (and blade sharpness)



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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec Analog pH Meter

Direct Soil pH Pen (with Calibration Fluid) For soil and water

Part #: PH1-N

<http://store.turf-tec.com/phlit.html>

The easy-to-use Turf-Tec pH Meter is a field instrument that works directly in the soil and is adjustable from 1-4 inches deep, so pH readings can be taken at different levels in the soil profile. The probe is extended out to the desired testing depth and inserted into the soil. The pH meter takes 60 seconds to give readout and is accurate to +/- 1.0 pH point. Unit is also ideal for monitoring under trees for surface soil pH.

MADE IN USA

TTMP90-W Turf-Tec PH1-N Replacement Probe

TTMP26-W Turf-Tec PH1-N Replacement 4" Spikes (Set of 2)

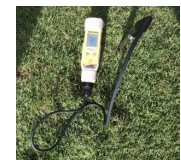


Part #: PHDS2-N

<http://store.turf-tec.com/phds1lit.html>

This pH pen gives the pH reading directly in a soil sample without having to mix a slurry. Simply pull a soil sample out of the ground, press the Direct Soil pH Pen's flat surface electrode into the soil and read the meter. The unit also measures pH in liquids like irrigation water and spray tanks and even floats! Memory recalls 15 sequential readings, has automatic temperature compensation and displays pH and temperature. Complete with 4.01 & 7.01 pH calibration fluids. Unit is accurate to +/- 0.10 pH point.

Part #: PHDS2-SEN-N - Replacement Sensor for PHDS2-N



pH Pen Calibration Liquid (Bottles) 1 - 7.01 & 1 - 4.01 (30ml each)

EC Meter Probe for Soil & Water (with 1.41 mS/cm Calibration Fluid and Hard Case)

Part #: PH-CAL2-N

<http://store.turf-tec.com/ph-cal2-n/>

PH-CAL2-N pH Pen Calibration Liquid includes 1 - 30 ml bottle of pH - 7.01 and 1 - 30 ml bottle of pH - 4.01

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Part #: ECM-1-N

<http://store.turf-tec.com/eclit.html>

The Field Scout Soil EC Meter with Probe permits instant, accurate measurement of salts directly in the soil as well as in water or nutrient solutions. Use this portable EC Meter with Probe to measure soil salinity on golf greens, fairways and athletic fields right on the spot, without conducting tedious soil sampling and soil preparation. The 8 inch long probe reads directly from the soil so there is no need to pull samples with this easy to use meter. Unit comes with hard case and 1 bottle of Conductivity Standard.

MADE IN USA

ECM-CAL2-N Replacement Conductivity Standard 1.41 mS





Spot On - Sprayer Nozzle Calibrator	
SPOT-CAL-02-.02-2.25 gallon per minute (3.7 L/min) SPOT-CAL-05-.08-5.0 gallon per minute (19 L/min)	
http://store.turf-tec.com/Spot-On-Calibrator.html	
https://store.turf-tec.com/products/spot-cal-08.html	

Spot On - Mega Flow Meter Calibrator	
SPOT-CAL-06-.35 to 44 gallon per min(166 L/min)	
https://store.turf-tec.com/products/spot-cal-06.html	

The Spot On Sprayer Calibrators are hand held calibration tools for measuring sprayer flow rate accurately in seconds. Measures in gallons, ounces, or liters per minute. Place the device under the spray nozzle, and it starts measuring when the first sensor gets wet and ends measuring when the second sensor gets wet. The mini computer calculates flow rate automatically. No need for math conversion formulas. Ensures nozzles are

The Spot On Mega Flow Meter quickly and accurately checks irrigation nozzle flow and regulator function, pump flow, and safety showers up to 44 GPM. Its large flow capacity of 25 GPM to 44 GPM (1.30-166.0LPM, 80-9990L/hr) allows for many uses. The new internal collection cavity eliminates the need for preparation work, saving the user time. Its accuracy is +/-3% over the 0 to 30 GPM flow range.



Turf-Tec Insect Flotation Sampler	
Part #: IFS1-G	
http://store.turf-tec.com/ifs1-g-lit.html	

Ball Mark Repair Tool	
Part #: BMRT1-M	
http://store.turf-tec.com/Ballmark.html	

The Turf-Tec Insect Flotation Sampler can be inserted through the grass thatch into the soil. Simply insert it into the soil and fill the unit with water and a weak soap solution to identify and count insects and bugs. Within minutes insects will float to the surface where they can be removed or counted to make population level estimates and to perform insect identification.

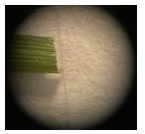
This tool is perfect for repairing ball marks on greens. The 30+ year old design cannot be matched for ball mark repair quality and putting green roll after repairs. Simply insert the 1/8th inch diameter stainless steel spikes of the ball mark repair tool into the golf green, squeeze the trigger and gently lift the tool and ball mark to the desired level. The soil is pressed together by the feet and lifting up the depression made by the golf ball restores the green to its original surface. Tool can be inserted at any depth which makes it ideal for using in the summer on cool season grasses.

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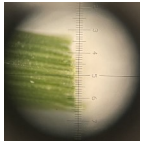
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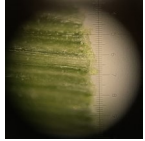
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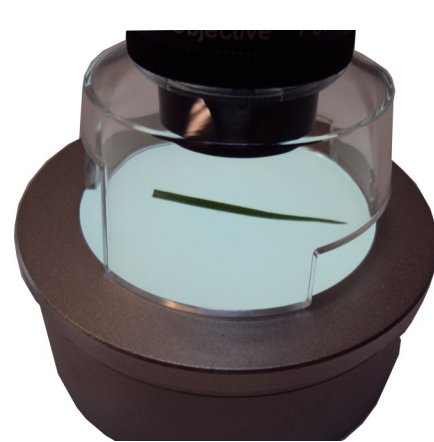
20X Power



40X Power



100X Power



Macroscope 20 -or- 40X -or- 100X Power Monocular Scope

MACR20-2-L - Macroscope 20X Power
 MACR40-2-L - Macroscope 40X Power
 MACR100-2-L - Macroscope 100X Power



https://store.turf-tec.com/MACR_size-2-L.html

Turf-Tec Macroscopic portable monocular microscopes offer superior image quality in simple, cost effective configurations and can be used in the field. They are available in three magnification powers, 20X, 40X and 100X power units. Unit bodies are constructed of solid aluminum, with aluminum and stainless steel parts and glass optics and are of the highest quality for long life. Each unit also comes with a pen light.

MACROSCOPE 20X offers a 5/16 (0.8 mm) field of view and is ideal for insect identification in turfgrass environments

MACROSCOPE 40X offers a 3/16 inch (0.4 mm) field of view and is ideal for disease diagnosis on turfgrass plants

MACROSCOPE 100X offers a 1/16 inch (0.15 mm) field of view and is ideal for disease diagnosis on turfgrass plants



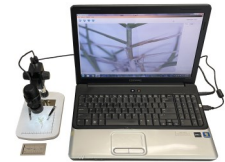
Macroscopic Light Table

Part #: MACRLT-L

<http://store.turf-tec.com/macrlt-lit.html>



This light table is used for the Macroscopic 25X and 45X scopes. It is versatile and can be used with a USB, 110 plug or the internal rechargeable battery. The unit is lightweight and offers a super bright LED with infinite levels of light illumination. The Macroscopic Light Table illuminates objects placed under the Macroscopic in a soft LED light from below.



Turf-Tec IPM Scope (640 x 480 Pixels)

Part #: IPM1-L - IPM Scope
 Part #: IPM-VID-L - IPM Scope Video Upgrade



<http://store.turf-tec.com/IPMScope-Lit.html>

The Turf-Tec IPM Scope combines advanced digital optics and LED lighting in a computerized microscope that fits in the palm of your hand. 40 - 140X magnification lets you zoom in on the fine details of insects and plant disease symptoms. Place the unit over the sample and view the image right on your computer screen. Capture images, easily add labels, take measurements and even draw right on the live image. The Turf-Tec IPM Scope comes with all the software required to capture and archive your still images. Video upgrade available.

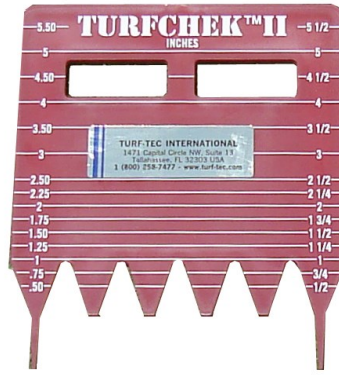
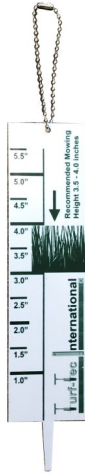
Turf-Tec USB Digital Microscope and Stand 20x & 300x - 5 Mega Pixel Camera

Part #: MACRCCA-2-L

<https://store.turf-tec.com/MACRCCA-2-L.html>



Turf-Tec USB Digital Microscope and Stand connects directly to any computer with a USB port and allows you to view and scan still images as well as video from 20x to 300x magnification and is a 5 mega pixel camera. USB camera can also be mounted in the sturdy stand or removed and used as a stand alone hand scope. Eight LED lights encircle the camera for excellent bright viewing. The LED lights can be adjusted for intensity of brightness.



**Turf-Tec Grass Lawn Height of Cut Gauge
3.5 - 4 Inch Version (Additional 10+ unit Disc)**

Turfchek II Rough Grass Height of Cut Gauge

Part #: HGLAWN-G

Part #: HGROUGH-METRIC-G

<http://store.turf-tec.com/products/hglawn.html>

<http://store.turf-tec.com/hq-rough.html>

The Turf-Tec Grass Lawn Height of Cut Gauge is designed for most home lawn grasses. The 1/8 inch thick gauge shows the proper cutting height for lawns (3.5 to 4.0 inches) for Tall Fescue, Bluegrass and St Augustine Grass. The unit is made of high impact plastic and shows grass height in 1/2 Inch increments from 1/2 to 5.5". Simply mow an area and push the bottom spike into the soil and look at the gauge. This will measure the actual height of the turfgrass so you can compare it with mower settings.

MADE IN USA

The Turfchek II is a Height of Cut Gauge designed for taller grass to determine the actual mowing height, right in the field. The unit is made of high impact plastic and shows inches on one side and millimeters on the other side. On the inch side, you can tell grass height in 1/4 inch increments from 1/2 -2 1/2 inches and then 1/2 inch increments from 2 1/2-5 1/2 inches tall. On the metric side, the Turfchek II shows height of cut in 6 millimeter increments from 6-60 mm and then 12 mm increments from 60-132 mm tall.

MADE IN USA

PRISM GAUGE			
10th Inch	100th Inch	10th Inch	Millimeters
1.000	0.100	40	4
1.100	0.110	45	4.5
1.200	0.120	50	5
1.300	0.130	55	5.5
1.400	0.140	60	6
1.500	0.150	65	6.5
1.600	0.160	70	7
1.700	0.170	75	7.5
1.800	0.180	80	8
1.900	0.190	85	8.5
2.000	0.200	90	9
2.100	0.210	95	9.5
2.200	0.220	100	10
2.300	0.230	105	10.5
2.400	0.240	110	11
2.500	0.250	115	11.5
2.600	0.260	120	12
2.700	0.270	125	12.5
2.800	0.280	130	13
2.900	0.290	135	13.5
3.000	0.300	140	14
3.100	0.310	145	14.5
3.200	0.320	150	15
3.300	0.330	155	15.5
3.400	0.340	160	16
3.500	0.350	165	16.5
3.600	0.360	170	17
3.700	0.370	175	17.5
3.800	0.380	180	18
3.900	0.390	185	18.5
4.000	0.400	190	19
4.100	0.410	195	19.5
4.200	0.420	200	20
4.300	0.430	205	20.5
4.400	0.440	210	21
4.500	0.450	215	21.5
4.600	0.460	220	22
4.700	0.470	225	22.5
4.800	0.480	230	23
4.900	0.490	235	23.5
5.000	0.500	240	24
5.100	0.510	245	24.5
5.200	0.520	250	25
5.300	0.530	255	25.5
5.400	0.540	260	26
5.500	0.550	265	26.5

PRISM GAUGE	
10th Inch	Millimeters
40	4
45	4.5
50	5
55	5.5
60	6
65	6.5
70	7
75	7.5
80	8
85	8.5
90	9
95	9.5
100	10
105	10.5
110	11
115	11.5
120	12
125	12.5
130	13
135	13.5
140	14
145	14.5
150	15
155	15.5
160	16
165	16.5
170	17
175	17.5
180	18
185	18.5
190	19
195	19.5
200	20
205	20.5
210	21
215	21.5
220	22
225	22.5
230	23
235	23.5
240	24
245	24.5
250	25
255	25.5
260	26
265	26.5



**Height of Cut Prism Gauge with Case
(Inches and Metric)**

**FIFA Height Of Cut Prism with Case
(FIFA) Metric Unit**

Part #: HGPLRISM-G

Part #: HGPRISM-FIFA-G

<http://store.turf-tec.com/hg-prismlit.html>

<http://store.turf-tec.com/HGPRISM-FIFA-G.html>

The unit is made from solid glass and stainless steel and is designed to tell the actual height of cut the mower is making on the turfgrass area as well as the quality of cut and smoothness of the surface. The unit includes a hard case. The measuring lines show 1/8, 1/16, 1/10 of an inch (.002 lines) and 1 mm intervals. View measures grass up to 1 1/2 inches (40 mm) tall. Measure height of cut down to 1/100th of an inch in the field. Prism Gauge can also be used for measuring the pile or fiber height in synthetic turf fields to determine if infill is at the correct height for player safety and proper maintenance.

MADE IN USA

The unit is made from solid glass and stainless steel and is designed to tell the actual height of cut the mower is making on the turfgrass area as well as the quality of cut and smoothness of the surface. The unit includes a hard case. The prism scale lines match FIFA testing guidelines showing 1-millimeter increments in a 175 mm length and 40 mm height. Unit also has an area with 1/10th of an inch (.002 lines) for reference. Unit shows mower quality and smoothness of the surface and can be used for measuring the pile or fiber height in synthetic turf fields to determine if infill is at the correct height for player safety and proper maintenance.

MADE IN USA



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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec Professional Model Infill Depth Gauge for Synthetic Turf

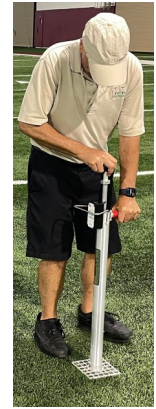
Part #: IDG1-M

<http://store.turf-tec.com/idg1-lit.html>



The Professional Model Infill Depth Gauge is specifically designed to easily and accurately measure the depth of your infill material on synthetic turf athletic fields. This precision unit is solid aluminum and has three stainless steel spikes. By determining the depth of the infill rubber, or rubber and sand topdressing on synthetic turf sports fields, you can ensure consistent depth from one area to another and provide the safest playing surface possible.

MADE IN GERMANY



Mascaro Infill and Cleat Depth Tester

Part #: MICDT-M

<https://store.turf-tec.com/products/micdt-m.html>



The new Mascaro Infill and Cleat Depth Tester (MICDT) is designed as a testing instrument that will measure infill depth, as well as cleat depth penetration, on synthetic turf. The device also measures cleat depth penetration on natural grass playing surfaces. Measuring infill on synthetic turf is an important process to prolong the life and playability of the turf. Measuring infill also ensures the playability of the surface and determines if it matches the optimum factory specifications. Measuring cleat depth also determines the consistency of the surface and how the athletes may perform on the area. In addition to displaying the readings in hundredths of an inch increments on the LCD screen, the unit also uses Bluetooth technology. By utilizing the free version of the SpecConnect App, you can record the readings in the app as you go. By subscribing to the paid version of SpecConnect, you can also GPS map the area you are testing. For testing infill depth on synthetic turf simply place the unit on the area to be tested, press down on the handle and the unit will display and record the infill depth in 100th of an inch increments. For testing cleat depth, install the cleat depth foot, raise the center shaft up until it hits the stop, and drop the shaft. **MADE IN USA**

Turf-Tec Economy Model Infill Depth Gauge for Synthetic Turf

Part #: IDG2-M

<http://store.turf-tec.com/idg2-lit.html>



The Economy Model Infill Depth Gauge can be used to easily and accurately measure the depth of your infill material on synthetic turf athletic fields. Unit is constructed from durable plastic and has a single stainless steel spike. By determining the depth of the infill rubber, or rubber and sand topdressing on synthetic turf sports fields, you can ensure consistent depth from one area to another and provide the safest playing surface possible.

MADE IN USA

Replacement Parts

MICDT-CLEAT-FOOT - Mascaro Infill and Cleat Depth Tester Cleat Foot with 2 Cleats

MICDT-INFILL-FOOT - Mascaro Infill and Cleat Depth Tester Infill Depth Foot

MICDT-09-Cleat - Mascaro Infill and Cleat Depth Tester Replacement Cleats





7" x 3 inch deep model



**Miltona Hexagon Plugger
7 inches by 2 or 3 inches deep models**

**Miltona Adjustable Depth Hex-Plugger with
Powerstroke Handle**

Part #: PLUG-HEX-7IN- (2" or 3")

<http://store.turf-tec.com/hex-plugger-lit.html>



Part #: PLUG-HEX-9IN-M

<https://store.turf-tec.com/products/plug-hex-9in.html>



This tool makes it easy to remove and replace sod and soil. The six-sided plugs line up perfectly for seamless turf repair. This tool cuts a hexagon shaped piece of turfgrass 7 inches across and to a depth of 2 inch or 3 inches deep depending on model ordered. The hexagon design allows the plugs in the repaired area to interlock and remain in place even on sloped areas. Several of the cut segments (plugs) will stack within the body of the repair tool. The bottom of the cut segment can be trimmed to ensure level replacement of turf. Unit includes trowel for leveling off bottom to ensure a perfect repair. **MADE IN USA**

The Miltona Adjustable Depth Hex Plugger 9 inch model with ejector handle takes a 9 inch diameter hexagon shaped plug out of the ground and can be adjusted to cut plugs from 2 to 5 inches in depth. It comes complete with the Powerstroke ejector handle to make ejection easier when working with deep cut plugs. The handle also has two settings that let you change the ejection force. The six-sided plugs line up squarely for seamless repairs of damaged turf. The hexagon shape causes the plugs in the repaired area to interlock and remain in place even on sloped areas. **MADE IN USA**



Duich Ball Mark Plugger

Turf-Tec Tubular Turf Plugger

Part #: BMP1-M

<http://store.turf-tec.com/duich.html>



Part #: TTP1-M

<http://store.turf-tec.com/ttplit.html>



This plugger is specially designed for removing ball marks or other small blemishes or weeds out of putting greens. The hardened cutter blade removes a turf plug 1½ inches in diameter by 2½ inches deep and has rubber spacers to allow shallower plugs to be removed from the golf green and deeper plugs to be removed from the turfgrass nursery so that the plugs are perfectly level and playable right after insertion. The hollow handle fills up with 12 plugs and the plugs are simply ejected out the top.

The Tubular Turf Plugger removes grass plugs 2½ inches wide by 2½ inches deep. The hollow handle fills up with 12 plugs, and the plugs are simply ejected out the top by turning the unit upside down. Cutter blade is case-hardened steel and is replaceable. This tool is ideal for filling in thin or dead areas, plugging out weeds and transplanting and establishing new grass varieties. Studies indicate plug size is ideal for quickest turfgrass establishment. This tool is heavy duty and designed to last a lifetime. **MADE IN USA**

MADE IN USA

MADE IN USA

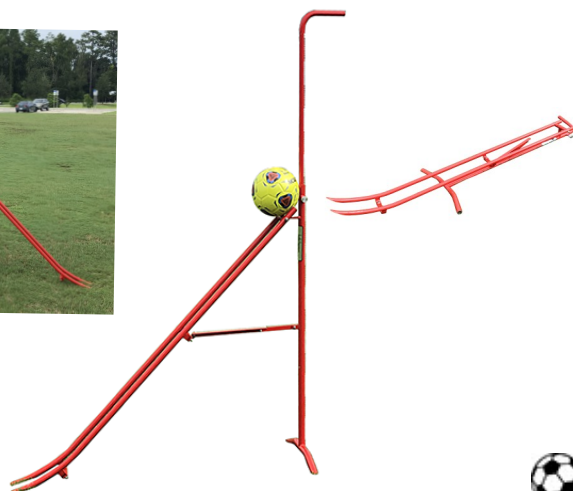
Part# **Replacement Part**
TTPB1-M - TTP1-M Replacement Cutter Blade





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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec WeedAway Weed Removal Tool

Ball Ramp – Ball Roll and Ball Rebound Tool

Part #: WEED1-M



Part #: BALL-ROLL-01-M



<http://store.turf-tec.com/weed1-lit.html>

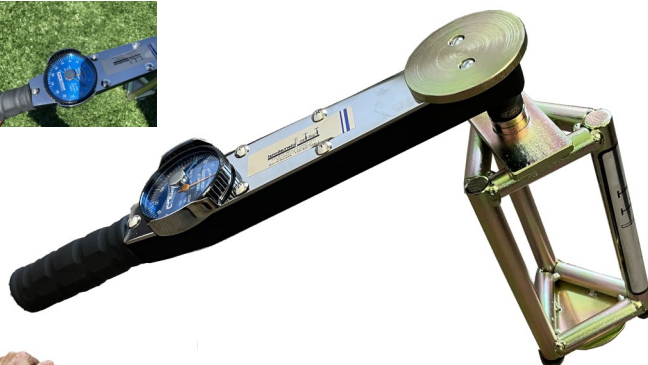
<http://store.turf-tec.com/ball-roll.html>

This unit is a heavy duty weed removal tool designed to twist weeds out of turfgrass areas. It is made of steel and also contains an ejection rod to remove the weed from the tool after popping the weed out of the ground. The tool uses either three 1/4 inch or 3/8 inch steel spikes to remove weeds without bending over. This tool not only removes the weed, but also twists off the entire root system. Unit comes with 1/4 inch & 3/8 inch spikes.

The Ball Roll and Ball Rebound Tool unit will perform FIFA Ball Roll Test and FIFA Ball Rebound Tests. For determination of Ball Roll (FIFA Test Method 03), a ball is rolled down the ramp on the device and allowed to roll across the athletic field surface. The distance the ball has travelled across the surface is measured and recorded. For the determination of Ball Rebound (FIFA Test Method 01), a ball is released from the Ball Roll and Ball Rebound Tool 2m above the turf surface and the height of its rebound from the surface is calculated. Unit is suitable for natural grass fields & synthetic turf fields. Rails also narrow for testing baseball, softball and cricket surfaces for ball roll and ball rebound.

MADE IN USA

Part# **Replacement Parts**
TTWA10-M - 3 inch by 1/4 inch spikes (set of 3)
TTWA11-M - 4 inch by 5/16 inch spikes (set of 3)



Turf-Tec Toma Shear Strength Tester

Turf-Tec FIFA Shear Strength Tester

Part #: TSHEAR1-M



Part #: TSHEAR1-FIFA-M



<http://store.turf-tec.com/tshearlit.html>

<https://store.turf-tec.com/TSHEAR1-FIFA-M.html>

This tool is a specially designed tool to test the stability of athletic field turfgrass root systems. Simply insert the tool into the turf, push down on the top, and pull the torque tool until the turf starts to tear. It is ideal to test newly sodded areas to see if they are ready for play. The unit also tests the type and depth of cleats that will perform best in your particular turfgrass root system and environment. Simply insert three cleats in the bottom of the tool, press down into the turf and twist the torque wrench until any slippage is detected, then read the scale. You can compare fields before tournaments or games to determine the proper type of cleats that the players should wear for that field on that particular day.

The new Turf-Tec FIFA Shear Strength Tester is a specially designed tool to test the stability of athletic field turfgrass root systems as well as footing on natural and synthetic turf surfaces. In addition, the Turf-Tec FIFA Shear Strength Tester also allows you to test the type of cleats that will perform best in your particular turfgrass root system, environment or infill synthetic turf surface. Using the Turf-Tec FIFA Shear Strength Tester allows you to know the correct cleat to wear during play and will not only ensure proper footing during play, but will also reduce slipping and may also create a safer playing environment for athletes.

MADE IN USA

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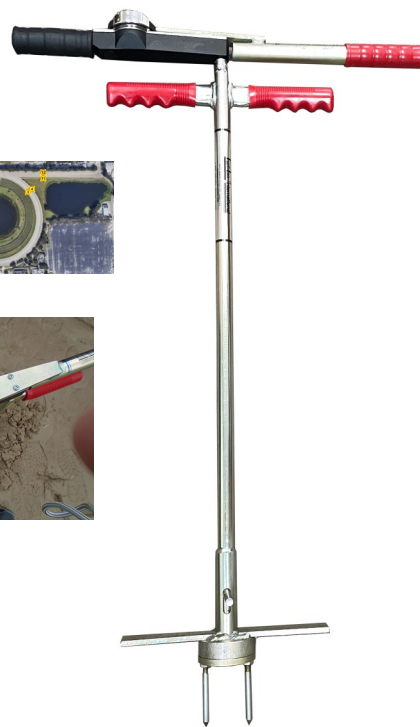
Shear Vane Foot



Testing with Cleats



Ejecting Grass



Turf-Tec Shear Strength Tester & Hard Case

Part #: TSHEAR2-M

<http://store.turf-tec.com/tshear2.html>



The Turf-Tec Shear Strength Tester, also known as a shear vane apparatus in scientific literature, is a specially designed tool to test the stability of athletic field and golf green turfgrass root systems.

On sports fields, in addition to shear vane testing, the Turf-Tec Shear Strength Tester can also test the type and depth of cleats that will perform best in your particular environment and turfgrass root system. Knowing the correct cleat will ensure proper footing during play and will also reduce slipping to create a safer playing environment for athletes. The unique design of the new Turf-Tec Shear Strength Tester with Shear Vane Foot allows the testing of the health of the root system and the turf's stability directly on athletic fields. Simply unscrew the shear vane testing foot and screw in the desired cleats to be used during play, then insert the tool into the soil. Press down and turn the tool until the turf starts to slip. This will provide a reading in Newton Meters as to the shear strength of the turf. Different cleat types and depths can be tested and compared to each other directly on the playing surface before matches or games. These tests will ensure the cleat choice is optimum for the field on that given day; regardless of field moisture, soil types, turf varieties or weather conditions. This is the tool used by professional stadiums to measure shear strength before every game.

Golf green root integrity can also be tested. Greens with lower shear strength values have less root mass and are therefore subject to more



Hard Case Included

Optional - Spacer foot for testing turf root establishment on golf greens

Part #: TSHEAR2-SPACER

<https://store.turf-tec.com/products/tshear2-spacer-foot.html>



Turf-Tec Shear Strength Tester & Hard Case

Part #: TSHEAR2-EQUINE-M

<https://store.turf-tec.com/products/tshear2-equine-m.html>



The Turf-Tec Equine Shear Strength Tester with hard case and Equine Foot is used for dirt and synthetic horserace tracks, polo fields, and horse arenas to test surface and base layer integrity and shear strength for proper and consistent footing.

Testing shear strength with the equine foot gives an indication of the amount of shear and shear strength potential of the area being tested. Equine area testing allows surfaces to be constructed and maintained in a uniform fashion. This testing equipment lessens the likelihood of injury on the surfaces by ensuring the entire surface has the same shear strength. Injuries occur when footing is different from one area to another as the animal loses or gains footing, causing instability.

For Horse Tracks, the Turf-Tec Shear Strength Tester conforms to standards testing for H.R. 133 Title XII - Horse Racing Integrity and Safety Act of 2020 for the Racetrack Safety Program (Stimulus BILL 116 HR 133 Public Law 116 - 68). It can be used on dirt, turf and synthetic racetracks. The Shear Vane foot can be added (Not included) to test Turf/Grass Racetrack surfaces.

On racetracks with dirt or synthetic material, first the cushion layer should be removed to the base layer and the Turf-Tec Shear Strength Tester with the equine foot should be inserted into the base material and shear strength tested.

After inserting the Turf-Tec Equine Shear Strength Tester into the cushion layer, turn the precision torque wrench with an open handed grip and read the scale in Newton Meters.



Hard Case Included

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<https://www.turf-tec.com/Prices/Turf-Tec-Price.pdf>



Turf-Tec Synthetic Turf Shear Strength Tester for Synthetic Athletic Field Turf & Hard Case

Part #: TSHEAR2-SYNTH-M

<https://store.turf-tec.com/tshear2-synth-m.html>



The Turf-Tec Synthetic Turf Shear Strength Tester has a specially designed foot for testing synthetic turf fields. This tool also has an extremely sensitive precision 0-9 Newton Meters wrench for exact readings on synthetic and infill surfaces. The instrument has a foot that has four hardened steel spikes that protrude below the foot, 1/2 inch (12.7 mm) and into the synthetic turf fibers and infill. This depth is optimal for testing synthetic shear strength values without damaging the turf or penetrating the synthetic turf backing material. The unit is useful in ensuring the surface is uniform and stable for playability and player safety.

For testing synthetic turf fields, the Turf-Tec Synthetic Turf Shear Strength Tester can also give an indication of the proper length cleats to be worn as well as ensuring the playability and footing is consistent across the entire playing surface. Just remove the Synthetic Turf Shear Strength Tester foot and insert four cleats (provided) into the holes at the base of the tool and test. Use the Turf-Tec Synthetic Turf Shear Strength to determine proper cleat length footing values and match those values with an infill depth gauge to also ensure the infill material is the same depth across the entire playing surface.

Also testing hardness of the surface with a Clegg Impact Tester to find out gMax readings will also show hardness of the playing surface. By having the cleat shear strength reading, the gMax reading and the infill depth reading consistent across the entire playing surface ensures playability and footing is consistent for synthetic turf safety.



MADE IN USA

Turf-Tec Diagnostic Kit w/Hard Case

Part #: DKIT1-M

<http://store.turf-tec.com/dkit-lit.html>



Turf-Tec International now offers a complete Diagnostic Kit for assessing turfgrass problems. The kit includes our most popular diagnostic tools so you can easily transport the tools from one area to another, remove them from the hard plastic protective case and do your testing. The Turf-Tec Diagnostic Kit is ideal for agronomists, sales representatives, consultants, researchers and anybody on the go. It can be checked as luggage for travel and fits easily in your utility vehicle. Now you can have your own traveling laboratory. Test for layers, compaction, moisture levels, stress, soil temperature, canopy temperature and overall turfgrass health. It is ideal for golf courses, sports fields, lawns, tracks, courts and any turf area.

Items included in Diagnostic Kit

- MPS1-S - Mascaro Profile Sampler (Full Size)
- MS1-W - Turf-Tec Moisture Sensor (Short)
- PN1-S - Turf-Tec Penetrometer (Full Size/Detachable)
- TSS3-S - Pocket Tubular Soil Sampler (1/2"x8 1/2")
- DPT2-S - Digital Pocket Thermometer C/F
- IR1-S - Infrared Thermometer w/Laser
- TSDG5-N - Turf Stress Detection Glasses





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