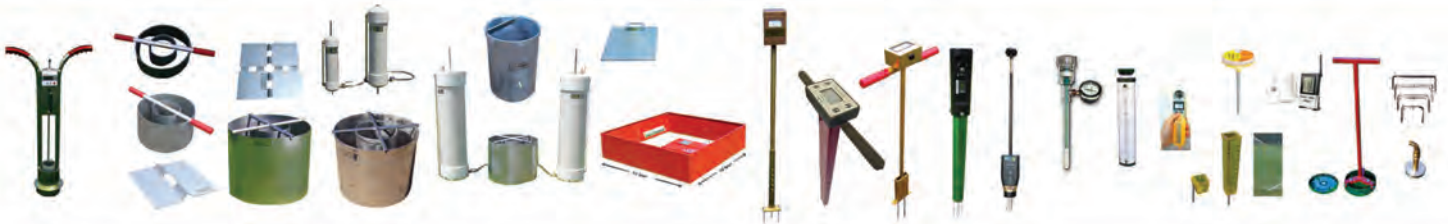


## SOIL ANALYSIS PRODUCTS



## WATER ANALYSIS PRODUCTS



## TURF NUTRITION ANALYSIS PRODUCTS



## GRASS ANALYSIS PRODUCTS



## MANAGEMENT PRODUCTS



# TABLE OF CONTENTS

## SOIL ANALYSIS PRODUCTS

Soil Sampling Tools - Soil Profile Samplers	3
Mascaro Profile Sampler (7" deep)	3
Heavy Duty Mascaro Profile Sampler	3
Mascaro Profile Sampler (12" deep)	3
Short Mascaro Profile Sampler	3
Tubular Soil Samplers	4
21 inches Tall	4
16 inches Deep w/step	4
12 inches Deep w/step	4
Pocket 8½ inches Tall	4
½" Diameter	5
Plug Popper Soil Sampler	5
Testing Sieves	5
Brass Sieve Set for Sand	5
Brass Sieve Set for Gravel	5
Acrylic Sieve Set	6
Sand Penetrometer	6
Soil Compaction Testers & Penetrometers	6
Clegg Impact Soil Tester	6
Soil Compaction Tester/Dial Penetrometer	7
Digital Soil Compaction Tester	7
FieldScout TruFirm Tester	7
Penetrometer	7
Thermometers	8
Infrared Turf Thermometer	8
Infrared Turf Thermometer with probe	8
Pocket Digital Thermometer	8
Digital Thermometer	8

## WATER ANALYSIS PRODUCTS

Infiltration Test Equipment	9
Heavy Duty Infiltration Rings	9
Heavy Duty Tall Infiltration Rings	9
Infiltrometer	9
Sky-Master Wind & Weather Meter	10
Moisture Sensors & Meters	10
Turf-Tec Analog Moisture Sensor	10
Turf-Tec Digital Moisture Sensor	11
FieldScout TDR350 Digital Moisture Sensor	11
FieldScout TDR150 Handheld Digital Moisture Sensor	11
POGO Mini Soil Moisture Sensor	12
POGO II Soil Moisture Sensor VWC	12
Evapotranspiration (ET) Gauge	12
Model R Irrrometer-Tensiometer	12
Light Meter	13
Sprinkler Uniformity/Precipitation Gauges/Trimmers	13
Precipitation/Uniformity Gauge	13
Trim-Clean Sprinkler Head Trimmer	13
Donut Trimmer Edging Blades	13
Aqua-Quicks	13

## TURF NUTRITION ANALYSIS PRODUCTS

Stress Detection Glasses	14
NASA Turf Stress Detection Glasses	14
Turf Stress Detection Camera Lens Filter	14
Turf Stress Detection Glasses	14
pH & EC Meters	15
Analog pH Meter	15
Direct Soil pH Pen	15
FieldScout pH Meter pH400	15
pH Pen by Hannah	15
pH Calibration Liquid	16
Spot On Spray Nozzle Calibrator	16
EC Meter Probe for Soil & Water	16
EC Pen	16

## GRASS ANALYSIS PRODUCTS

Macroscopes & Accessories	17
Macroscopes	17
Macroscope Computer Camera Attachment	17
Macroscope Light Table	17
IPM Scope	17
Insect Flotation Sampler	18
Turf Height of Cut Measurement & Infill Depth Gauges	18
Turfchek II Rough Height Cut Gauge	18
Height of Cut Prism Gauge (Inch & Metric)	18
Height of Cut Prism Gauge (FIFA Metric)	18
Professional Model Infill Depth Gauge	19
Economy Infill Depth Gauge	19

## MANAGEMENT PRODUCTS

Turf Repair	19
Ball Mark Repair Tool	19
Miltona Hexagon Plugger	19
Duich Ball Mark Plugger	20
Tubular Turf Plugger	20
WeedAway Weed Removal Tool	20
FIFA Test Equipment	20-21
Ball Roll Ramp and Ball Rebound Device	20
Shear Strength Testers	21
Toma Shear Strength Tester	21
Turf-Tec Shear Strength Tester	21
Diagnostic Kit	21



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# Turf-Tec International 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 in everyday maintenance. John Mascaro, Tom's son, now heads Turf-Tec, and is carrying on the family tradition of introducing innovative tools to aid the Superintendent, Sports Turf Manager and the 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 and SportsTurf Magazine.



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 warranted. We look forward to your business.



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

Part#	Link	QR
MPS1-S	<a href="http://store.turf-tec.com/mps.html">http://store.turf-tec.com/mps.html</a>	

The Mascaro Profile Sampler is the best soil profile sampler on the market. The sample is extracted through a specially designed hinge opening 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.  
**MADE IN USA**



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

Part#	Link	QR
MPS2-S	<a href="http://store.turf-tec.com/mpshdlit.html">http://store.turf-tec.com/mpshdlit.html</a>	

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 the reinforced cutter blades allowing reliable use even in hard or rocky soils. An unmatched quality sample is extracted through a specially designed hinge opening the cutter.

Overall length is 38 inches tall.  
**MADE IN USA**



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

Part#	Link	QR
SPS3-S	<a href="http://store.turf-tec.com/mps12lit.html">http://store.turf-tec.com/mps12lit.html</a>	

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 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.  
**MADE IN USA**



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

Part#	Link	QR
MPS1-S-SHORT	<a href="http://store.turf-tec.com/mps-short.html">http://store.turf-tec.com/mps-short.html</a>	

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 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**

SPORTS TURF SPECIFIC ITEM  
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**Tubular Soil Sampler  
(15 inch deep sample - 21 inches tall)**

Part#	Link	QR Code
TSS1-S	<a href="http://store.turf-tec.com/tss1lit.html">http://store.turf-tec.com/tss1lit.html</a>	

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 3/4 inch by 21 inches tall.

**MADE IN USA**

Part#	Accessory	Image
TSS1A-S	Tubular Soil Sampler Replacement Tip	



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

Part#	Link	QR Code
TSS2-S	<a href="http://store.turf-tec.com/tss2lit.html">http://store.turf-tec.com/tss2lit.html</a>	

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 3/4 inch by 36 inches tall.

**MADE IN USA**



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

Part#	Link	QR Code
TSS2-12-S	<a href="http://store.turf-tec.com/tss2-12-lit.html">http://store.turf-tec.com/tss2-12-lit.html</a>	

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 allows a clean 12 inch deep core sample. The 36 inch Tubular Soil Sampler extracts a sample 12 inches deep by 3/4 inch wide.

Overall unit is 3/4 inch by 36 inches tall.

**MADE IN USA**



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

Part#	Link	QR Code
TSS3-S	<a href="http://store.turf-tec.com/tss3lit.html">http://store.turf-tec.com/tss3lit.html</a>	

The Turf-Tec Pocket Tubular Soil Sampler extracts a sample 1/2 inch diameter (13 mm). This tool is the smallest diameter tubular soil sampler in the business. It's entirely made of stainless steel and is incredibly sturdy. The unit is the ideal sampler for keeping in your glove compartment or utility vehicle - so you are never without a sampler.

Overall unit is 1/2 inch diameter by 3 inches wide by 8 1/2 inches tall.

**MADE IN USA**

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**Turf-Tec Tall Tubular Soil Sampler**  
(1/2 inch diameter by 21 inches tall)

Part#	Link	QR
TSS4-S	<a href="http://store.turf-tec.com/tss4lit.html">http://store.turf-tec.com/tss4lit.html</a>	

The Turf-Tec Tall Tubular Soil Sampler extracts a sample 1/2 inch diameter (13 mm). This stainless steel sampler is the thinnest diameter tubular soil sampler in the business. The unit removes soil sample cores 6 inches deep at a time. Simply remove from the ground, empty the soil and repeat the sampling process until the 21 inch depth is obtained.

Overall unit is 1/2 inch diameter by 21 inches tall.

**MADE IN USA**



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

Part#	Link	QR
PLUGPOP-01-M	<a href="http://store.turf-tec.com/plug-popper-lit.html">http://store.turf-tec.com/plug-popper-lit.html</a>	

The Plug Popper features a patented piston design that allows you to take a 1 1/2 inch by 4 inch deep plug with the stainless steel sampling tip. After the plug is removed, simply push down on the ejection foot peg to eject the sample. In addition to soil sampling, 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 ever bending over!

Overall Height is 50 inches tall.

**MADE IN USA**



**Brass Sieve Set for Sand**  
(8 inch diameter-USGA specifications)

Part#	Link	QR
BS1-S	<a href="http://store.turf-tec.com/bs1lit.html">http://store.turf-tec.com/bs1lit.html</a>	

Test your own sand with a complete set of brass sand sieves. Excellent for new greens, sports field construction, testing topdressing sand, and bunker sands as well as helpful in testing existing soil profiles. This set will give you a full USGA particle breakdown including 2.0 mm, 1.0 mm, 0.5 mm, 0.25 mm, 0.15 mm and 0.05 mm sizes. Top and bottom pans are also included.

Set is 8 inches in diameter, solid brass with bronze screens.

**MADE IN USA**



**Brass Sieve for Gravel**  
(8 inch diameter-USGA specifications)

Part#	Link	QR
BS2-S	<a href="http://store.turf-tec.com/bs2lit.html">http://store.turf-tec.com/bs2lit.html</a>	

Test your own gravel with a complete set of brass gravel sieves.

Excellent for new greens, sports field construction, testing topdressing sand, and bunker sands as well as helpful in testing existing soil profiles. A full USGA gravel breakdown including 5/8 inch, 1/2 inch, 3/8 inch, 1/4 inch and 2.00 mm. Top and bottom pan also included. Set is 8 inches in diameter, solid brass with

bronze screens.

**MADE IN USA**

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### Turf-Tec Acrylic Sieve Set

Part#	Link
AS1-S	<a href="http://store.turf-tec.com/aslit.html">http://store.turf-tec.com/aslit.html</a>

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, 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.



### Sand Penetrometer

Part#	Link
PN5-S	<a href="http://store.turf-tec.com/pn5lit.html">http://store.turf-tec.com/pn5lit.html</a>

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**



(Optional Hard Case)

### Clegg Impact Soil Tester

Part#	Link
PNCLEGG-S-0.5	<a href="http://store.turf-tec.com/clegg.html">http://store.turf-tec.com/clegg.html</a> 0.5 kg Model
PNCLEGG-S-2.25	2.25 kg Model - 0 to 1000 Gravities
PNCLEGG-S-2.25A	2.25 kg Model - 0 to 150 Gravities
CASE-CLEGG-TSHEAR	Optional hard case for Clegg
CASE-CLEGG-FACTORY	Optional hard case for Clegg (Pelican)

The new Bluetooth Clegg Impact Tester is used to determine the likelihood of a sports field player getting a concussion on a sports turf area. It can be used on natural and artificial turf fields, as well as playgrounds and horse tracks. The principle behind the Clegg Impact Soil Tester 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 wireless tablet (included) in units of gravities (G or Gmax). The readings are recorded in the app along with date, time and GPS coordinates.

Readings can be emailed and shared with tablet or converted to an Excel spreadsheet. The 2.25 kg model 0 to 150 Gravities is mostly used for athletic fields as it has a +/-1% or 1.5 g accuracy and is ideal for safety testing. The 0 to 150 Gravities 2.25 kg unit is also ideal for testing natural and artificial turf area and race tracks.

The 2.25 kg 0 – 1000 g unit is used in baseball, softball fields and tennis courts and clay as well as turfgrass areas. This unit also has a +/-1% or 10g accuracy. Price includes level, charger, cables and android compatible tablet for displaying readings saving and sending data to your computer.

**Hard case is optional but recommended.**  
**MADE IN USA**

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**Turf-Tec Soil Compaction Tester / Dial Penetrometer**

Part#	Link	QR
PN-COMP1-S	<a href="http://store.turf-tec.com/pn-comp1-lit.html">http://store.turf-tec.com/pn-comp1-lit.html</a>	

The Soil Compaction Tester / Dial Penetrometer is a simple tool 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.

**MADE IN USA**



**Field Scout TruFirm Tester**

Part#	Link	QR
TRUFIRM-1-S	<a href="http://store.turf-tec.com/tru-firm-lit.html">http://store.turf-tec.com/tru-firm-lit.html</a>	

Based on technology developed by the USGA, the FieldScout TruFirm offers a quick, easy method to measure the firmness of golf greens and bunker sands. The TruFirm utilizes a golf ball shaped impact hammer to simulate golf ball impacts. 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. Measurements are instantaneous and logged data can be sent via Bluetooth to a mobile device for plotting specific greens. A free app allows users to analyze greens over nine distinct segments to evaluate trends and monitor sections of green relative to one other. Also works with SpecConnect paid app.  
**MADE IN USA**

- SPORTS TURF SPECIFIC ITEM
- GOLF TURF SPECIFIC ITEM



**Digital Soil Compaction Tester**

Part#	Link	QR
PN-COMP-DIG-S	<a href="http://store.turf-tec.com/pn-comp-dig-lit.html">http://store.turf-tec.com/pn-comp-dig-lit.html</a>	

The new Digital Soil Compaction Tester is a digital version of the Dial Penetrometer 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.



**Turf-Tec Penetrometer**

Part#	Link	QR
PN1-S	<a href="http://store.turf-tec.com/pn1it.html">http://store.turf-tec.com/pn1it.html</a>	

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 aerification and to monitor soil compaction. A weighted shaft is simply 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 will show the surface compaction of the soil or the hardness of the surface. The Turf-Tec Penetrometer is also useful to determine consistency between greens before tournaments in relation to golf ball bounce. Will also give readings predicting ball roll on fairways and approaches.  
**MADE IN USA**



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**Infrared Turf Thermometer  
(w/laser)**

Part#	Link
IR1-S	<a href="http://store.turf-tec.com/ir1lit.html">http://store.turf-tec.com/ir1lit.html</a>

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 Celsius or Fahrenheit. Simply point the laser at the area, pull the trigger and read the LCD screen. This is the ideal tool for testing surface temperature on artificial turf for player safety.



**Infrared Turf Thermometer  
(w/probe)**

Part#	Link
IR2-S	<a href="http://store.turf-tec.com/irlit.html">http://store.turf-tec.com/irlit.html</a>

The Infrared Thermometer is easy to use. Since it does not have to make contact with the turf, it's a quick way to assess turfgrass stress. Simply point the laser at the area and read the LCD screen. Displays Celsius or Fahrenheit. This unit also comes with a detachable temperature probe, so you can test the soil temperature with one compact unit. Unit also comes with a hard plastic protective case. Probe length is 8 inches.



**Pocket Digital Thermometer  
(Fahrenheit & Celsius)**

Part#	Link
DPT2-S	<a href="http://store.turf-tec.com/dpt-lit.html">http://store.turf-tec.com/dpt-lit.html</a>

The Pocket Digital Thermometer is easy to carry and tells the soil temperature within 10 seconds. The temperature range is -40F to 300F (-40C to 150C). Unit is very durable with a 3¼ inch long probe. 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 probe.



**Turf-Tec Digital Thermometer  
(Fahrenheit & Celsius)**

Part#	Link
DT1-S	<a href="http://store.turf-tec.com/dtlit.html">http://store.turf-tec.com/dtlit.html</a>

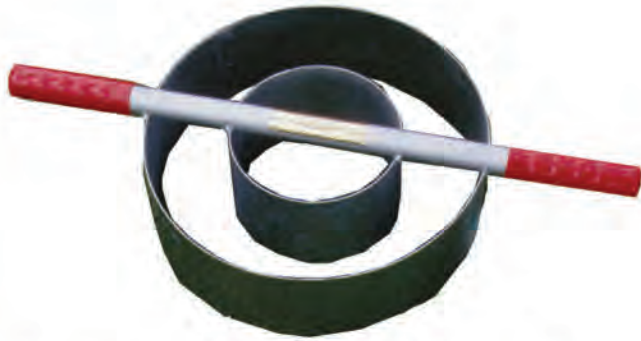
Monitors temperatures from 1 inch to 3 inches deep in the soil profile. Digital readout in Fahrenheit and Celsius. Digital thermometer has an adjustable foot to monitor temperatures in multiple levels of the root zone. The Turf-Tec Digital Thermometer is ideal for determining weed seed germination, when to overseed areas and monitoring soil temperature under green covers. It is also useful to diagnose wet wilt and dry spots.

Temperature range is -58 to 571F (-50 to 300C).

**MADE IN USA**

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

Part#	Link	QR Code
IN7-W	<a href="http://store.turf-tec.com/in7lit.html">http://store.turf-tec.com/in7lit.html</a>	

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 insure 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.

**MADE IN USA**



**Turf-Tec Infiltrimeter**

Part#	Link	QR Code
IN2-W	<a href="http://store.turf-tec.com/in2lit.html">http://store.turf-tec.com/in2lit.html</a>	

The Turf-Tec Infiltrimeter 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 become prevalent. Areas with the lowest infiltration rates are most susceptible to disease.

Turfgrass 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.

**MADE IN USA**

- SPORTS TURF SPECIFIC ITEM
- GOLF TURF SPECIFIC ITEM



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

Part#	Link	QR Code
IN8-W	<a href="http://store.turf-tec.com/in8lit.html">http://store.turf-tec.com/in8lit.html</a>	
IN8P-W	Infiltration Rings WITH port for IN12 Mariotte Tubes	

The Turf-Tec Heavy Duty Tall Infiltration Rings allow the field infiltration rates to be measured. This tool conforms to the new 2006 Pennsylvania Stormwater Best Management Practices 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. **MADE IN USA**

Part#	Link	Image
IN6-W	<a href="http://store.turf-tec.com/IN6lit.html">http://store.turf-tec.com/IN6lit.html</a>	
	Turf-Tec Driving Plate for 6 & 12 in. Rings	



**Sky-Master Wind & Weather Meter**

Part#	Link	QR Code
WIND1	<a href="http://store.turf-tec.com/wind-lit.html">http://store.turf-tec.com/wind-lit.html</a>	

This easy to use, pocket-size weather station features complete wind speed functions, humidity, dew point, altitude, barometric pressure with 16 hour graph, temperature, wind-chill, heat index and includes a severe weather audio alarm. Sky-Master is water resistant, floats, threaded for tripod mounting and comes with a lanyard. It is an excellent way to check wind speed before spraying or irrigating turfgrass areas. The unit also closes up into the jack knife style protective case. Heat index feature is useful for assessing the safe playability of athletic fields.

One year warranty.



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### Turf-Tec Moisture Sensor

Part#	Link	QR Code
MS1-W	<a href="http://store.turf-tec.com/mslit.html">http://store.turf-tec.com/mslit.html</a>	

The Turf-Tec 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 variable depth feature. Readings are in percentages from 0-100%. Tournament officials also recommend monitoring moisture before a tournament to insure uniformity from green to green and different areas on an athletic field like goal mouths and red zones.

**MADE IN USA**



### Turf-Tec Digital Moisture Sensor

Part#	Link	QR Code
MS6-W	<a href="http://store.turf-tec.com/ms6-lit.html">http://store.turf-tec.com/ms6-lit.html</a>	

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 insure 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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Part#	Moisture Sensor Replacement Parts	Image
TTMP75-W	Turf-Tec Replacement Probe	
TTPM26-W	Turf-Tec Replacement 4" Spikes, set of 2	

Part#	Turf-Tec Digital Moisture Sensor Probes (set of 2)	Image
MS6-P001	Turf-Tec Digital Moisture Sensor Probes (set of 2)	

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### FieldScout TDR 350 Digital Moisture Sensor w/soft case

Part#	Link	QR Code
MSFS-TDR350-1.5	<a href="http://store.turf-tec.com/msfs-tdr350.html">http://store.turf-tec.com/msfs-tdr350.html</a>	
MSFS-TDR350-3.0	Field Scout TDR 350 with 3.0 in. spike set	
MSFS-TDR350-4.8	Field Scout TDR 350 with 4.8 in. spike set	
MSFS-TDR350-8.0	Field Scout TDR 350 with 8.0 in. spike set	

The FieldScout TDR 350 is the next generation to the TDR 300 series. The new enhancements to the TDR 350 include EC (Electrical Conductivity) measurement, turf surface temperature measurement, an improved back lit display, integrated Bluetooth, and internal GPS, in addition to offering the proven time-domain measurement technology that turf professionals have come to trust in the FieldScout 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)*

Part#	TDR 350 Replacement Parts
MSFSP01	Replacement Spikes 1.5 inch (3.8 cm)
MSFSP03	Replacement Spikes 3.0 inch (7.5 cm)
MSFSP04	Replacement Spikes 4.8 inch (12 cm)
MSFSP05	Replacement Spikes 8.0 inch (20 cm)
MSFS1-CASE	Replacement Soft Carrying Case
MSFSSC-W	SpecConnect 1 year Subscription 1-3 Devices
MSFSSC4-W	SpecConnect 1 year Subscription 4-7 Devices
MSFSSC8-W	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)



### FieldScout TDR 150 Handheld Digital Moisture Sensor (w/case)

Part#	Link	QR Code
MSFS-TDR150-W	<a href="http://store.turf-tec.com/msfs-tdr150.html">http://store.turf-tec.com/msfs-tdr150.html</a>	

The FieldScout 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 (Volumetric Water Content), Measures EC (Electrical Conductivity), Measures Soil Surface Temperature, Data logger and Option to add on Bluetooth and GPS. Hand-held design allows for easy transportation and storage. Units connected by 5 ft. Cable. Spikes sold separately.

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Part#	TDR 150 Replacement Parts
MSFSP01	Replacement Spikes 1.5 inch (3.8 cm)
MSFSP03	Replacement Spikes 3.0 inch (7.5 cm)
MSFSP04	Replacement Spikes 4.8 inch (12 cm)
MSFSP05	Replacement Spikes 8.0 inch (20 cm)
MSFS-TDR150GPS-W	Bluetooth & GPS Upgrade



### POGO Mini Soil Moisture Sensor VWC w/Bluetooth (EC & Temperature)

Part#	Link	QR Code
POGO-MINI-2-W	<a href="http://store.turf-tec.com/pogo-mini-2.html">http://store.turf-tec.com/pogo-mini-2.html</a>	

The new Pogo Mini Moisture Sensor is a cost effective alternative to moisture sensing for those people who just want a spot reading of Volumetric Water Content (VWC) along with EC (salinity) and canopy temperature without the additional mapping features of the full version POGO. It still contains the high quality POGO sensor that instantly measures moisture on the spot and displays it on a smart phone or tablet that is within the Bluetooth range. The POGO mini moisture sensor has consistent accuracy without the need to ever calibrate. The durable sensor is made with marine grade stainless steel probes and comes with a two year warranty.

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### POGO-PRO+ Soil Moisture Sensor VWC w/Bluetooth (Includes EC & Temperature)

Part#	Link	QR Code
POGO2-GPS-W	<a href="http://store.turf-tec.com/POGO-PRO-PLUS.htm">http://store.turf-tec.com/POGO-PRO-PLUS.htm</a>	
POGO-PRO+	Pogo II with WiFi and integrated GPS	
	POGO With integrated GPS Bluetooth and hard case	

The new Pogo-Pro+ VWC Moisture Sensor allows you to find moisture levels, EC and temperature of your turf and soil. You simply insert the Pogo Pro+ VWC Moisture Sensor into the soil and press read on your cell phone or tablet and the VWC (Volumetric Water Content) Moisture percentage, Soil EC and Soil Temperature in F/C are displayed instantly via Bluetooth. Readings can be read and discarded or saved into a downloadable database. GPS location with purchase of additional mapping subscription allows you to create overlay maps for soil moisture readings in real time. Also available in WiFi version with display (POGO2).  
**MADE IN USA**



### Evapotranspiration (ET) Gauge

Part#	Link	QR Code
ETG1-W	<a href="http://store.turf-tec.com/etgagelit.html">http://store.turf-tec.com/etgagelit.html</a>	

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.  
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### Turf-Tec Model R Irrrometer - Tensiometer

Part#	Link	QR Code
IRR6-W	<a href="http://store.turf-tec.com/irrometer-lit.html">http://store.turf-tec.com/irrometer-lit.html</a>	
IRR12-W	6 inch Model Deep Irrrometer	
IRR24-W	12 inch Model Deep Irrrometer	
IRR36-W	24 inch Model Deep Irrrometer	
IRRKIT-W	Irrrometer Service Kit (Vacuum Hand Pump, 1 oz. Irrrometer Fluid, 25 Monthly Chart Forms)	
IRR-FLUID	Irrrometer refill fluid, 1 ounce concentrate	

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. Simply insert it into the soil and after about 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**  
**MADE IN USA**



### Light Meter (Daylight Indicator)

Part#	Link	QR Code
LIGHT-DLI-W	<a href="http://store.turf-tec.com/light-meter-lit.html">http://store.turf-tec.com/light-meter-lit.html</a>	

This simple water resistant light meter measures light intensity levels for turf every 4 seconds over a 24 hour period by measuring Photosynthetically Active Radiation. 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.

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### Turf-Tec Precipitation/Uniformity Gauge

Part#	Link	QR Code
PUGS2-W	<a href="http://store.turf-tec.com/puglit.html">http://store.turf-tec.com/puglit.html</a>	

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 and if any areas are being missed. 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 10th of an inch and millimeters.

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### Donut Trimmer Edging Blades

Part#	Link	QR Code
DTBSIZE-M	<a href="http://store.turf-tec.com/dteblit.html">http://store.turf-tec.com/dteblit.html</a>	

These sprinkler head trimming blades attach on your string trimmer and allow you to trim around sprinkler heads with one pass. They are made to fit right over the sprinkler heads for trimming. Blades come in 6, 7, 8 or 9 inch diameters. Six blades per package. Mix and match any size or get the set of six in one size. Please specify size when ordering.

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### Trim-Clean Sprinkler Head Trimmer

Part#	Link	QR Code
TCLEAN1-M	<a href="http://store.turf-tec.com/trim.html">http://store.turf-tec.com/trim.html</a>	

This tool is simply inserted over sprinkler heads and the heavy gauge serrated stainless steel blade is rotated by hand to cut grass and stolons around head. Unit has interchangeable heads that allows 5, 6, 7 or 8 inch blades to be attached to the heavy-duty handle. Trim Clean is sold with one handle and one cutter blade. Please specify cutter blade size when ordering. One tool will last many years of sprinkler head trimming.

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Part#	Price	Accessory	Image
TCLEAN-HEAD	\$80.00	Trim-Clean Replacement Blades	



### Aqua-Quicks w/90 Adapter

Part#	Link	QR Code
AQ650-1-M	<a href="http://store.turf-tec.com/aqlit.html">http://store.turf-tec.com/aqlit.html</a> Toro 630, 660, 730, 760, 830, 860, for 1" hose	
AQ650-3/4-M	Toro 630, 660, 730, 760, 830, 860, for 3/4" hose	
AQRB700-1-M	Fits all Rainbird 70 series, for 1" hose	
AQRB700-3/4-M	Fits all Rainbird 70 series, for 3/4" hose	

This device, made of solid aluminum, can turn a Toro or Rain Bird valve-in-head sprinkler into a 3/4 inch or 1 inch water source. Simply remove the sprinkler head drive and put the Aqua-Quick in its place, add snap ring and presto, Aqua-Quick.

Sold in sets of 2.

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### NASA Turf Stress Detection Glasses (kit)

Part#	Link	
TSDG1-N	<a href="http://store.turf-tec.com/tsdg-lit.html">http://store.turf-tec.com/tsdg-lit.html</a>	

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.



### Turf Stress Detection Glasses

Part#	Link	
TSDG5-N	<a href="http://store.turf-tec.com/tsdg5-Lit.html">http://store.turf-tec.com/tsdg5-Lit.html</a>	

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. On athletic fields you can even see logos and lines previously painted without laying out the field again or pulling out stencils.



### Turf Stress Detection Camera Lens Filter

Part#	Link	
TSDL1-N	<a href="http://store.turf-tec.com/tsdl1-n.html">http://store.turf-tec.com/tsdl1-n.html</a>	
TSDG-OVER-N	Over Glasses (Not pictured)	

Simply hold the lens filter up to any camera lens and shoot the photograph through it to see stressed areas in your photos. Useful for university research, plot evaluations and every day evaluations of turf. Works on cell phones as well.

### turf stress detection guide

	disease	water	invasion	maintenance

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**Turf-Tec Analog pH Meter**

Part#	Link	QR Code
PH1-N	<a href="http://store.turf-tec.com/phlit.html">http://store.turf-tec.com/phlit.html</a>	

The easy-to-use Turf-Tec pH Meter is a field instrument that works directly in the soil. The pH Meter foot is adjustable from 1-4 inches deep, so pH readings can be taken at different levels in the soil profile, above the root zone, in the root zone and below the root zone. This will allow a complete pH analysis of the entire root zone. This will aid in determining if incorrect pH within the soil layers are causing problems with nutrient uptake. Probe is simply extended out to desired testing depth and inserted directly into the soil. The pH meter takes only 60 seconds to give readout and is accurate to +/- 0.5 pH point. Unit is also ideal for monitoring surface soil under trees. Unit is lightweight and durable.

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Part#	Description	Image
TTMP90-W	Replacement Probe	
TTMP26-W	Replacement Spikes 4", set of 2	



**FieldScout pH Meter  
(w/stainless steel tipped probe)**

Part#	Link	QR Code
PH400-N	<a href="http://store.turf-tec.com/ph400-lit.html">http://store.turf-tec.com/ph400-lit.html</a>	

This new rugged digital pH Meter uses a stainless steel tipped probe with an embedded ISFET chip to measure pH directly in the soil up to a depth of 6 inches. Since you can test directly in the soil, there is no easier way to measure pH in the field. No mixing of slurries. And since the probe contains no glass it's rugged and can be stored dry. The USB port is well protected by a tightly sealed cover and the casing and battery door are fitted with rubber seals.

- Large, 3.2" LCD color display for easy measurements
- Intelligent calibration wizard simplifies calibration
  - Supports 1- and 2-point calibration
  - Light weight and compact design
- Powered by 3 rechargeable AA-batteries (AC adapter included)
- Meter includes case with cavity for sensor, batteries, and pH 4 and 7 standards

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**Direct Soil pH Pen**

Part#	Link	QR Code
PHDS2-N	<a href="http://store.turf-tec.com/phds1lit.html">http://store.turf-tec.com/phds1lit.html</a>	

Now, for the first time, there is a pH pen that gives soil 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 Direct Soil pH Pen also measures pH in liquids like irrigation water and spray tanks and unit even floats! Memory records and recalls 15 sequential readings, has automatic temperature compensation and displays pH and temperature. Complete with flat surface pH electrode, protective sensor cap, rinse bottle, batteries, 4.01 & 7.01 pH calibration fluid. Unit is accurate to +/- .10 pH point.

Part#	Accessory	Image
PHDS2-SEN-N	Replacement Sensor	



**pH Pen by Hannah**

Part#	Link	QR Code
PHEP5-N	<a href="http://store.turf-tec.com/phep5lit.html">http://store.turf-tec.com/phep5lit.html</a>	

The Hannah pH Electronic Pen is ideal for testing tank mixes to insure the proper pH of spraying solutions, it even floats! It is also useful in testing irrigation and lake water. The small handheld meter can also be used to measure soil pH by taking soil samples and mixing a slurry or paste. The pH pen electrode can then be placed into the soil slurry for soil pH readings. It has 0.1 accuracy, large LCD display and a one year warranty.

It is waterproof and even floats if dropped into water. Unit also has a replaceable electrode. Unit also needs to be calibrated periodically with PH-CAL-N Calibration Fluid.

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Part#	Accessory	Image
PHEP5-27-N	Replacement Sensor	





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### pH Calibration Liquid

Part#	http://store.turf-tec.com/ph-cal-n.html	
PH-CAL-N	5 - 10ml packets of pH 7.01 & 4.01	
PH-CAL-2-N	1 - 30ml bottles of pH 7.01 & 4.01	

PH-CAL-N is a box of 10 sealed aluminum packets (5 - 10 ml packets of 7.01 and 5 - 10 ml packets of 4.01 solution). These are used to calibrate any of our pH Meters or pH Pens.

PH-CAL-2-N is two 30 ml dropper bottles (one 7.01 and one 4.01 solution) for use to calibrate any of our pH Meters or pH Pens.



### EC Meter Probe for Soil & Water

Part#	Link	
ECM-1-N	http://store.turf-tec.com/eccli.html	

The FieldScout Soil EC Soil Meter with probe permits instant, accurate measurement of salts directly in the soil as well as water or nutrient solutions. Use this portable EC meter with probe to measure soil salinity directly 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.

Part#	Accessory	
ECM-CAL-N	EC Meter Conductivity Standard 2.76 mS/cm	

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### Spot On Sprayer Nozzle Calibrator



Part#	http://store.turf-tec.com/spot-on-calibrator.html	
SPOT-CAL-01	1 gallon per minute L/min	
SPOT-CAL-02	4 gallon per minute L/min	

The Spot On Sprayer Calibrator is a hand held sprayer calibration tool for measuring agricultural sprayer flow rate accurately in seconds. Measures in gallons per minute, ounces per minute or liters per minute. By simply placing the device under the spray nozzle, it starts measuring when the first sensor gets wet and ends measuring when the second sensor gets wet. The microcomputer then calculates flow rate automatically. This allows you to find your flow rates without having to do any complicated mathematical conversion formulas.

Available in 1 gpm or 4 gpm model.  
Measures in 0.01 GPM, 1 oz./min, 0.01 L/min increments.



### EC Pen by Oakfield

Part#	Link	
ECPEN-OAK-N	http://store.turf-tec.com/ec-oakton.html	

This waterproof microprocessor EC Tester offers push-button calibration and ±1% accuracy in a rugged waterproof housing. Never worry about losing your tester in a pond or tank; this tester even floats! It can be used in liquid or the probe can be inserted directly into a moist soil sample after the sample has been extracted from the ground.



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**Macroscopes w/hard case**

Part#	http://store.turf-tec.com/macrlit.html	
MACR251-L	Macroscope 25x Power with hard case	
MACR451-L	Macroscope 45x Power with hard case	
MACR601-L	Macroscope 60x Power with hard case	

This portable microscope magnifies objects to 25, 45 or 60 times their size depending on the unit. Made from aluminum and solid glass optics, it incorporates a calibrated measuring reticle. Correctly identify disease, insects, or root problems right on your own desk, or in the field. Unit includes hard case.

- Use the 25X scope for insect identification.
- Use the 45X scope for insect and disease identification.
- Use the 60X scope for disease identification.



**Macroscope Light Table**

Part#	Link	
MACRLT-L	http://store.turf-tec.com/macrlit-lit.html	

Now for the first time, Turf-Tec is offering a light table for the Macroscope 25X, 45X and 60X scope units. This versatile unit can be used with a 110 volt plug, with a USB power cord or with the internal rechargeable battery. The unit is strong but lightweight and offers a super bright LED with infinite levels of light illumination. The Macroscope Light Table illuminates objects placed under the Macroscope in a soft LED light from below. Unit is operated by internal rechargeable battery or unit can plug into USB on computer or plugged into 110 volt AC power.

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**Macroscope Computer Camera Attachment**

Part#	http://store.turf-tec.com/maccca-l.html	
MACCCA-L	1.3M Pixel	
MACCCAMP-L	9.0M Pixel	

The Macroscope computer camera attachment is designed to attach on top of the Macroscope 25X, 45X or 60X models. This unit allows direct imaging of objects from the Macroscope to your computer. The unit plugs into a USB port on any desktop or laptop computer and the software allows you to see live images and capture the still images. Software included.

Part#	Accessory	
MACRCA-52-L	Photo SLR Camera Adapter, 52 mm	



**Turf-Tec IPM Scope (640x640 Pixel)**

Part#	http://store.turf-tec.com/ipmscope-lit.html	
IPM1-L	Turf-Tec IPM Scope (640x480 pixel)	
IPM-VID-L	IPM Video Upgrade	

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 Turf-Tec IPM Scope over the sample and comfortably view the image right on your computer screen, instead of straining to look into a tiny eyepiece. 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.



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### Turf-Tec Insect Flotation Sampler

Part#	Link	QR Code
IFS1-G	<a href="http://store.turf-tec.com/ifs1-g-lit.html">http://store.turf-tec.com/ifs1-g-lit.html</a>	

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 as well as being able to perform insect identification.

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### Turfchek II Rough Grass Height Cut Gauge

Part#	Link	QR Code
HGROUGH-METRIC-G	<a href="http://store.turf-tec.com/hg-rough.html">http://store.turf-tec.com/hg-rough.html</a>	

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 that shows height of cut in 6 millimeters increments from 6-60 mm and then 12 mm increments from 60-132 mm tall.

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### Height of Cut Prism Gauge with case (Inches and Metric)

Part#	Link	QR Code
HGPRISM-G	<a href="http://store.turf-tec.com/hg-prismlit.html">http://store.turf-tec.com/hg-prismlit.html</a> Inches and Metric	

The Grass Height Prism Gauge is made from solid glass 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 solid a glass prism in a stainless steel frame and a hard protective case. The graduated measuring lines show 1/8th, 1/16th, 1/10th of an inch (.002 lines) and 1 mm intervals. Overall view measures grass up to 1 1/8 inches (40 mm) tall. Now see your height of cut down to 1/100th of an inch right in the field as well as mower quality. Prism Gauge can also be used for measuring the pile or fiber height in synthetic turf fields to determine if enough infill is installed between the pad and the fibers for player safety and proper field maintenance.

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### FIFA Height Of Cut Prism with case (FIFA) Metric unit

Part#	Link	QR Code
HGPRISM-FIFA-G	<a href="http://store.turf-tec.com/HGPRISM-FIFA-G.html">http://store.turf-tec.com/HGPRISM-FIFA-G.html</a> FIFA Specification in Metric	

The FIFA Grass Height Prism Gauge matches FIFA Standards and is made from solid glass which is designed to tell the actual height of cut that the mower is making on the turfgrass area as well as the quality of cut and smoothness of the surface. Unit includes solid glass prism in a stainless steel frame with a hard protective case. Turf-Tec FIFA prism scale lines match FIFA testing guidelines showing 1-millimeter increments in a 175 mm length and a 40 mm height. Unit has a small area with 1/10th of an inch (.002 lines) for reference. You can see the height of cut at 1 mm increments as well as mower quality and smoothness of the surface. The unit can also be used for measuring the pile or fiber height in synthetic turf fields to determine if enough infill is installed between the pad and the fibers for player safety and proper field maintenance. **MADE IN USA**

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**Turf-Tec Professional Model Infill Depth Gauge for Synthetic Turf**

Part#	Link
IDG1-M	<a href="http://store.turf-tec.com/idg1-lit.html">http://store.turf-tec.com/idg1-lit.html</a>

The Professional Model Infill Depth Gauge is specifically designed to easily and accurately measure the depth of your infill material on artificial 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.



**Turf-Tec Economy Infill Depth Gauge for Artificial Turf**

Part#	Link
IDG2-M	<a href="http://store.turf-tec.com/idg2-lit.html">http://store.turf-tec.com/idg2-lit.html</a>

The Economy Model Infill Depth Gauge can be used to easily and accurately measure the depth of your infill material on artificial 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.

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**Ball Mark Repair Tool**

Part#	Link
BMRT1-M	<a href="http://store.turf-tec.com/duich.html">http://store.turf-tec.com/duich.html</a>

This Ball Mark Repair Tool is the best in the industry for repairing ball marks on golf greens. The time proven design has been around for over 30 years and cannot be matched for ball mark repair quality and putting green roll after repairs are made. Simply insert the 1/8th inch diameter stainless steel spikes of the ball mark repair tool into the golf green, squeeze the trigger and 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 northern grasses! There is no better tool for ball mark repair available.

**MADE IN USA**



**Miltona Hexagon Plugger (7 inch by 2 inches deep)**

Part#	Link
PLUG-HEX-7IN-M	<a href="http://store.turf-tec.com/hex-plugger-lit.html">http://store.turf-tec.com/hex-plugger-lit.html</a>

This innovative tool will make it easy to remove and replace sod and soil, while the six-sided plugs line up perfectly for seamless turf repair. The Miltona 7 Inch Hexagon Turf Pluggers hexagon shape causes the plugs in the repaired area to interlock and remain in place even on sloped areas.

This tool will cut a hexagon shaped piece of turfgrass 7 inches across and to a depth of 2 inches. Several of the cut segments (plugs) will stack within the body of the repair tool.

The bottom of the cut segment can be trimmed or scalped to ensure level replacement of turf. Unit includes trowel for leveling off bottom to insure a perfect repair.

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- SPORTS TURF SPECIFIC ITEM
- GOLF TURF SPECIFIC ITEM



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### Duich Ball Mark Plugger

Part#	Link
BMP1-M	<a href="http://store.turf-tec.com/duich.html">http://store.turf-tec.com/duich.html</a>

This plugger is specially designed for removing ball marks or other small blemishes completely out of a putting green. The hardened cutter blade removes a turf plug 1½ inches in diameter 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. Excellent for the new ultra dwarf grasses. The unit also comes with three 1/8 inch thick rubber washers that fit over the cutter blade to allow shallower plugs to be removed from the golf green and deeper plugs to be removed from the turfgrass nursery so that no soil is needed to be added to the plugs on the golf green upon replacement. This will insure the plugs are perfectly level and playable right after insertion. This tool is also useful in removing Poa Annua and any undesirable turf or weeds from golf greens.

**MADE IN USA**



### Turf-Tec Tubular Turf Plugger

Part#	Link
TTP1-M	<a href="http://store.turf-tec.com/ttplit.html">http://store.turf-tec.com/ttplit.html</a>

The Tubular Turf Plugger removes grass plugs 2¾ 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 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. We have been manufacturing this same quality tool since the 1960's!

**MADE IN USA**

Part#	Accessory
TTPB1-M	Replacement Blade



### Turf-Tec WeedAway Weed Removal Tool

Part#	Link
WEED1-M	<a href="http://store.turf-tec.com/weed1-lit.html">http://store.turf-tec.com/weed1-lit.html</a>

The new Turf-Tec WeedAway is a heavy duty weed removal tool designed to twist weeds out of turfgrass areas. It is made of heavy duty gauge steel and also contains an ejection rod to remove the weed from the tool after popping the weed out of the ground.

The Turf-Tec WeedAway tool uses either three ¼ inch or ⅜ inch steel spikes to twist weeds from turfgrass areas without bending over. This is a heavy duty weed removal tool designed for the rugged maintenance of everyday use. This tool not only removes the weed, but also twists off the entire root system. Unit comes with ¼ inch & ⅜ inch spikes.

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Part#	Accessory
TTWA10-M	3 inch by ¼ inch spikes (set of 3)
TTWA11-M	4 inch by ⅜ inch spikes (set of 3)



### Ball Ramp – Ball Roll and Ball Rebound Tool

Part#	Link
BALL-ROLL-01-M	<a href="http://store.turf-tec.com/ball-roll.html">http://store.turf-tec.com/ball-roll.html</a>

The Ball Roll and Ball Rebound Tool unit comes fully assembled, simply unfold the unit, loosen the thumb screw located on the ball rebound side of the device and raise the measuring scale until the measuring label lines up and begin testing. 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 until it comes to rest. 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.

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**Turf-Tec Toma Shear Strength Tester**

Part#	Link	QR Code
TSHEAR1-M	<a href="http://store.turf-tec.com/tshearlit.html">http://store.turf-tec.com/tshearlit.html</a>	

The Turf-Tec Toma Shear Strength Tester 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 area to see if they are ready for play. The Turf-Tec Toma Shear Strength Tester 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 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 day.

**MADE IN USA**



**Turf-Tec Shear Strength Tester w/hard case**

Part#	Link	QR Code
TSHEAR2-M	<a href="http://store.turf-tec.com/tshear2.html">http://store.turf-tec.com/tshear2.html</a>	

The new Turf-Tec Shear Strength Tester is a specially designed tool to test the stability of athletic field turfgrass root systems with a scientifically tested shear vane foot. This tool is also known as a shear vane apparatus in scientific literature and is used on natural grass in many professional football and soccer stadiums. In addition, the Turf-Tec Shear Strength Tester can also test the type of cleats that will perform best in your particular turfgrass root system and environment. Tool comes complete as shown with shear vane foot, cleats and highly accurate torque wrench calibrated in Newton Meters (0-30 Nm) and includes a hard plastic protective case.

**MADE IN USA**

- SPORTS TURF SPECIFIC ITEM
- GOLF TURF SPECIFIC ITEM



**Turf-Tec Diagnostic Kit w/hard case**

Part#	Link	QR Code
DKIT1-M	<a href="http://store.turf-tec.com/dkit-lit.html">http://store.turf-tec.com/dkit-lit.html</a>	

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.

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The Turf-Tec Diagnostic kit comes with the following items, housed in a protective hard case (27"x16"x10")

Part#	Description
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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Here's a list of essential products that every Golf Course Superintendent or Sports Turf Manager should have in order to assess the health of their turfgrass areas they manage. By using these diagnostic tools, you will be able to find problems before they are visually apparent and treat the problem before turfgrass declines in quality and health.

List of essential diagnostic tools for the Golf Course Superintendent



List of essential diagnostic tools for the Sports Turf Manager





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