

AerWay®



*Turf aeration so easy you can do it today
without disrupting play*



Five Year Factory Warranty
(See owner's manual for details)

Advanced Aeration Systems

AerWay® Options

Greens Express Smoothing Roller

The AerWay® Greens Express smoothing roller option allows the operator to lift the roller completely off the ground to leave the aeration holes open, or adjust tine penetration in less than one inch increments, or support the tined roller completely out of the ground for use exclusively as a smoothing roller.

The ability to vary the depth of tine penetration with each aeration ensures that an artificial barrier to water percolation will not develop. Research has shown that this can happen if aeration is done at the same depth each time.



Adjustable Roller Feature

On certain AerWay® models, the user has the ability to offset the rollers of the Shattertine® equipped units for renovation purposes.

This can be accomplished by changing two bolts on the out-board end of each roller. The manual unit has three positions of offset, 0, 2 1/2 and 5 degrees.

Liquid Ballast Tank

The new liquid ballast tank, standard on all AerWay® units, provides an easy and effective way to ballast the AerWay® for complete ground penetration. It comes complete with straps and an evacuation spout. The ballast tank should always be completely filled.

Tank Length	Total Ballast
47"	650 lbs
62"	860 lbs
77"	1,040 lbs
92"	1,250 lbs



Electric / Hydraulic Power Pack

This option can be added to any AerWay pull-type frame for use with power units that are not equipped with remote hydraulic outlets. The unit is operated with a switch from the operators seat to raise or lower the transport wheels.

AerWay Wing Models - 15' and 20' widths.

Maximize your aeration area application and minimize time with the largest aerator available in the market today. These AerWay units fold to a transport width under 8' for safe road transportation. They are available with all of the standard features and options, and can be fitted with any of the AerWay tines.



AerWay's "Advanced Aeration Systems" offer you low cost, low maintenance, long lasting options for turf aeration



Shattertine® for use on roughs, fairways, tees and sports fields.

Only patented AerWay® Shattertines® lift and fracture tough soil to increase air, water, and nutrient movement.

As the AerWay® moves over the surface of the ground, the unique angles and offsets of the shattertines® crack and shatter compacted soil 7 inches and deeper, resulting in increased water percolation, microbial activity and fertilizer utilization. Plants respond with stronger root systems and healthier top growth.



Sportstine® for use on sports fields, fairways, tees and approaches.

The Sportstine® is a 6 inch long, heavy-duty venting aeration tine that can be fitted to any AerWay® frame.

Its usage is fast, effective and economical. It can even be used mid-season when the need is greatest and the "window of opportunity" exists. Sportstine® lets you aerate and play right away.



Finetine® for use on greens, tees, approaches, and fine turf.

The AerWay® deep Finetine® relieves surface compaction and penetrates up to 6 inches.

It can be combined with the Greens Express smoothing roller on most AerWay® frames for a fast venting aeration of greens and tees without any disruption of play, and there is no clean up. Eighteen greens can typically be aerated in about three hours.



Coring Tine® is ideal for use on fairways and sports fields where coring cultivation is desired.

The Coring Tine® is used for dethatching and to prepare the soil for topdressing and overseeding. This is a 3/4" diameter, 4" long tine that can be used at high speed. They are available on 4", 5" and 6" centers and can be fitted into a variety of AerWay frames.



Super Finetine® for use on greens, tees, approaches, and fine turf.

The Super Finetine® is designed to be used as a thatch management tool.

The Super Finetine® accomplishes venting aeration through the thatch layer to maintain infiltration rates between verticutting and coring treatments. The Super Finetine is available with tine centers as close as 3" x 3" and it can be retrofitted on any AerWay frame. It's fast and there is no disruption in play when used with the smoothing roller.

Dr. M.C. Engelke
Professor,
Texas A&M University

Dr. M.C. Engelke, Professor at Texas A&M University and a consulting agronomist, is a strong proponent of frequent aeration, especially for heavy traffic areas on playing fields and golf courses.

In a recently published article he is quoted as saying "... venting aeration should be done throughout the growing season in a two week cycle... venting is generally deeper... and doesn't remove soil from the turf. Venting creates channels for water and oxygen to be delivered deeper into the soil profile and



aids in relieving stress during extreme heat and in excessively wet areas. It typically doesn't disrupt the playing surface". AerWay's Advanced Aeration System tines, both the Sportstine® and Finetine®, yield these venting benefits.



Greg Elliot, Head Groundskeeper,
San Francisco Giants

I use the AerWay on a regular basis for venting purposes. The play of the game and routine maintenance cause surface compaction, reducing the amount of air that reaches into the soil. By constantly opening the soil, we are able to improve playing conditions with minimal soil disruption. We use the AerWay to bridge the gap between coring cultivations to keep our field at the top of its game.



Jerry Richard, Golf Course Superintendent,
Oxford Golf and Country Club (Craigowan),
Woodstock, Ontario

"Aeration, while it is one of the most despised operations by golfers, is probably the single most beneficial cultivation practice that you can do on turf, especially high traffic, low mowed turf. The benefits include compaction relief and subsequently reduced stress to turf, improved drainage, added oxygen to the soil, deeper roots, incorporation of topdressing materials, break down of surface tension and relief from hydrophobic soil conditions and more effective and efficient nutrient uptake by the plant. The AerWay has proved to be both rugged and fast in doing our fairways and roughs."



The causes and results of compaction

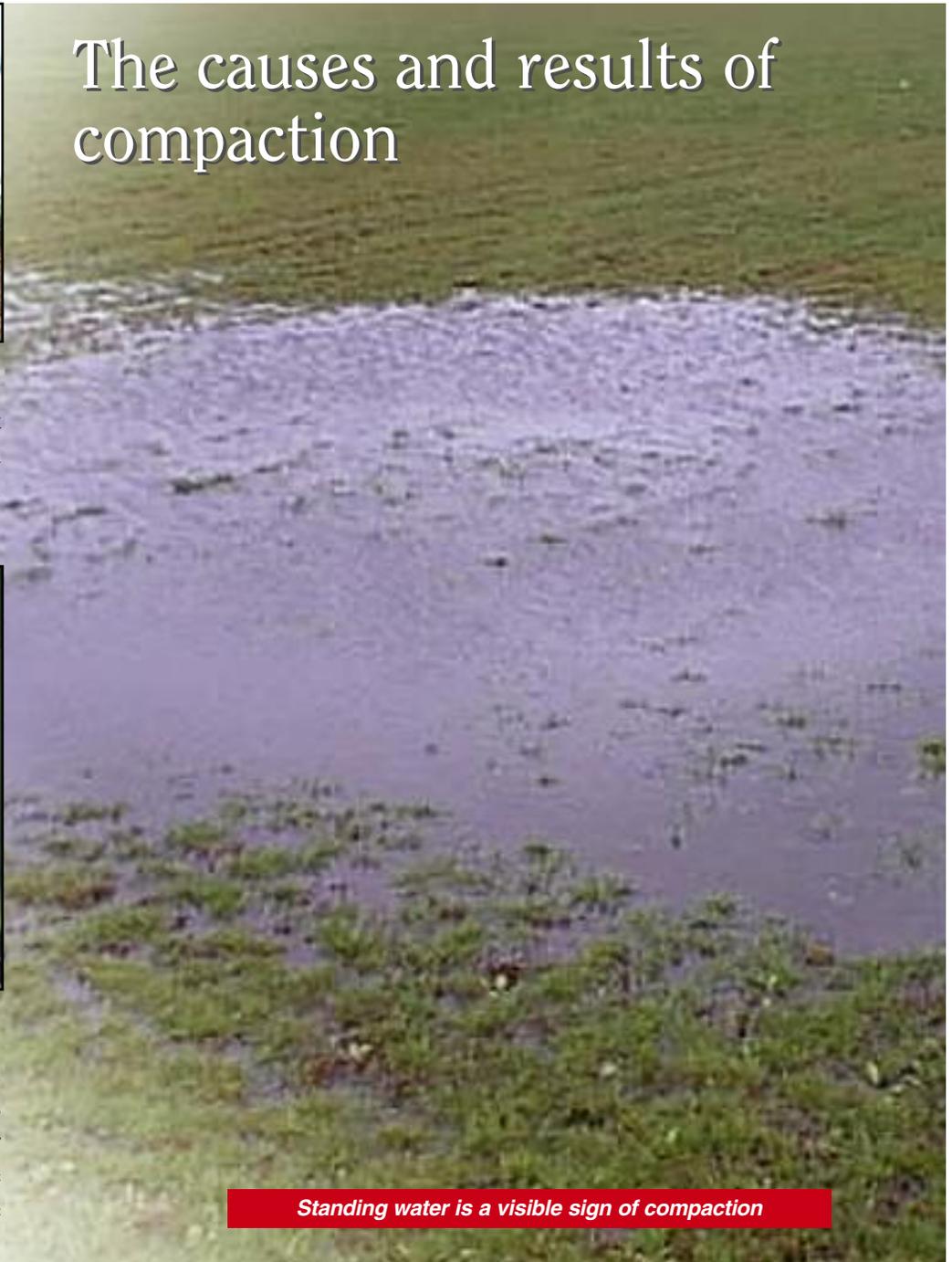
Rainfall

Heavy rainfall disturbs the smallest particles on the surface and forces them into pore spaces near the surface, creating layers of compaction.



Equipment traffic/Foot traffic

High traffic loads break down soil particles and forces them together. This reduces the pore space needed for air and water movement. The effect is worse in wet conditions when particles move more freely.



Standing water is a visible sign of compaction

Regular treatment with AerWay® can turn your soil around

The bottom line is that relieving soil compaction is the first step to increase soil productivity. Compaction relief is the single most cost-effective method for producing healthy turf grass.

Compaction Relieved

- n Increased pore space
- n Reduced bulk density
- n Increased gas exchange
- n Efficient nutrient movement
- n Optimum water content
- n Increased air content
- n Deeper root penetration

Soil Conditions

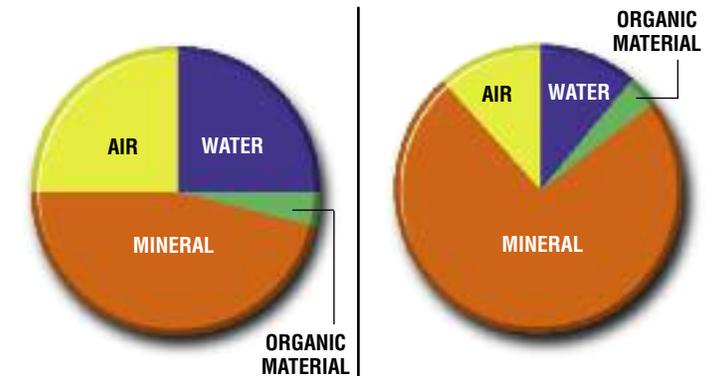
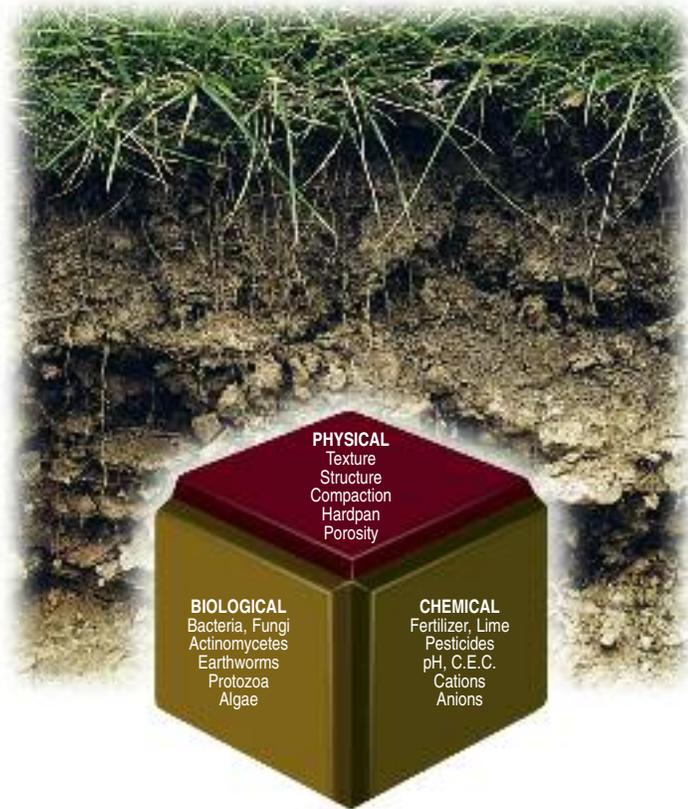
- n Increased water infiltration
- n Improved drainage
- n Reduced erosion
- n Greater root mass
- n Increased microbial activity
- n Less nutrient leaching
- n Reduced risk of injury

Plant Response

- n Even turf growth
- n Well developed plants
- n Deeper, healthier roots
- n Increased root mass
- n Better drought tolerance
- n Improved disease resistance
- n Decreased weed pressure

AerWay[®] goes to the heart of soil problems by relieving compaction

Compaction makes both wet and dry soil conditions more severe. It reduces the water holding capacity of soil which makes drought conditions worse, and inhibits drainage to make wet conditions more troublesome.



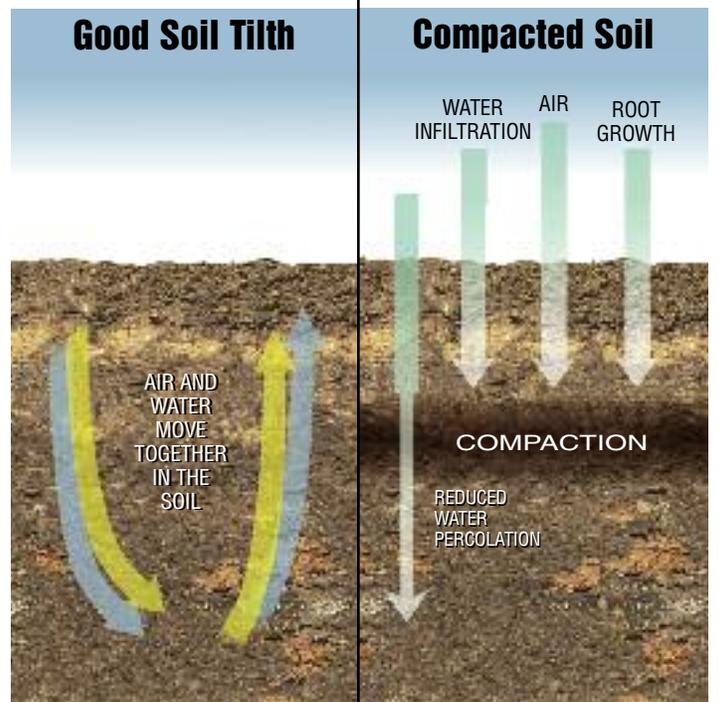
Soil basics

Three systems, physical, biological and chemical, work together to make soil productive. Soil scientists agree that the physical condition of soil is the key to efficient biological and chemical activity, which in turn determines how much plant life the soil can support.

Soil tilth: Why compaction is the Turf Manager's #1 enemy

Soil tilth is a measurement of the balance between basic soil elements: mineral, air, water, and organic matter. The proper balance of these elements increase soil production by allowing efficient interaction of all the soil systems. Air and water balance in the soil is the key to good root growth.

Compaction stresses plants because air and water are “squeezed” from the soil. Biological and chemical activities which depend on air and water become severely restricted. Root growth is impaired, turf production suffers.



Air and water move together

Correcting compaction makes a dramatic improvement in soil tilth. It is the most basic step you can take to improve turf grass production. That's because air and water move together in the soil profile. With proper air / water balance in the soil, all the biological and chemical systems work at peak efficiency.

AerWay® increases soil tilth for efficient root growth



Mechanical aeration with AerWay® is the answer

Aeration, by definition, is the movement of air into, and through the soil profile. Air, by itself, cannot accomplish this - it must be moved by an external force. The external medium is water. WATER, moving through the soil, displaces the carbon dioxide out of the pore spaces and pulls air into the vacuum created as it moves deeper into the soil profile. Therefore, aeration is accomplished by managing water.

Water management is generally measured by its infiltration and percolation rates. Infiltration is the rate at which water enters the soil, while percolation is the rate at which it passes through the soil. Deep aeration, typically 6" to 10", once or twice a year, using the AerWay Shattertine, estab-

lishes percolation. Infiltration rates can be maintained by venting aeration with the AerWay Sportstine or Finetine. This is a fast, effective, low cost method to keep the soil surface open and minimize compaction without disrupting use of the turf area. As surface compaction is a continuous problem, caused by both use (foot traffic) and maintenance (mowing), venting aeration should be scheduled every 2 to 3 weeks to be effective.

AerWay - effective aeration - where you need it - when you need it.

Selecting an AerWay® is like designing your own aerator

It's easy. Simply choose your frame style, select the appropriate tine and add the options for your application.



3-point Hitch

Standard Category 1, or 2 three-point hitch (depending on size) for basic sports turf and fairway aeration.

Model	Hp required	Weight (approx.)
45"	15-22 hp	977 lbs
60"	20-30 hp	1143 lbs
75"	25-35 hp	1223 lbs
90"	30-40 hp	1398 lbs

Standard Features:

- n Bolt-on replaceable tines
- n Built-in frame stands, ballast tank

Options:

- n Shattertine®, Sportstine®, Finetine®, Coring Tine or Super Finetine®
- n Greens Express Smoothing Roller kit
- n 5" tine spacing (Sportstine® & Finetine® ONLY)
- n Single or two roller
- n Super Finetine® 3", 4", 5", 6" Tine spacing
- n Coring Tine 4", 5", 6" Tine spacing

Hydraulic Tag-Along

Designed for use with tractors or utility vehicles. Pneumatic turf tires make transport convenient.

Model	Hp required	Weight (approx.)
45"	18-25hp	1194 lbs
60"	25-35 hp	1437 lbs
75"	30-40hp	1587 lbs
90"	35-50hp	1753 lbs

Standard Features:

- n Bolt-on replaceable tines
- n Ballast tank
- n Wheels/hydraulics
- n Safety lock out

Options:

- n Electric / hydraulic power pack
- n Shattertine®, Sportstine®, Finetine®, Coring Tine or Super Finetine®
- n Clevis or ball
- n Coring Tine 4", 5", 6" Tine spacing
- n 5" tine spacing (Sportstine® & Finetine® ONLY)
- n Greens Express Smoothing Roller kit
- n Single or two roller
- n Super Finetine® 3", 4", 5", 6" Tine spacing

Holland reserves the right to alter specifications without notice or obligation



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