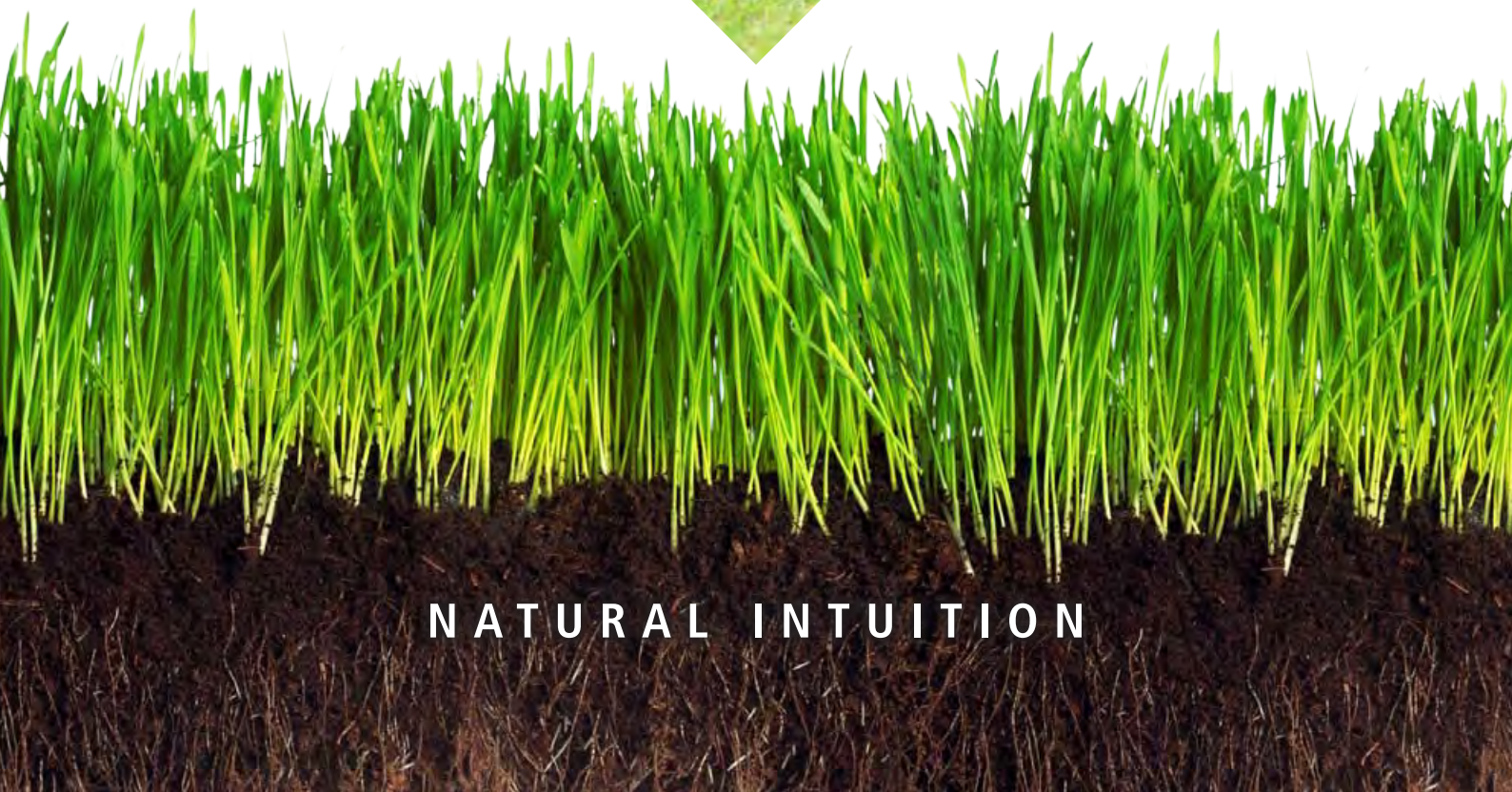


Redexim



NATURAL INTUITION

Redexim



WELCOME

For more than 40 years Redexim has been at the forefront of research and development in the professional turf maintenance sector. We have a proud history of supplying professional equipment to leading sporting venues around the world, from world cup pitches and olympic stadiums to championship golf courses, Redexim equipment plays a vital part in the maintenance of these facilities.

Redexim originally introduced the iconic Verti-Drain®, deep tine aerator to the market, revolutionising the approach to professional turf care.

Constant research and development has seen Redexim strive to bring innovation to the industry. Redexim are proud to market a complete range of complimentary equipment, including Overseeders, Topdressers, Scarifiers and Sweepers alongside the Verti-Drain®.

Redexim prides itself on knowing the market place and staying in touch with their customers. Over the last 20 years we have seen the introduction of artificial turf and recognising the importance of efficient maintenance Redexim have developed a full range of Artificial Turf equipment, from simple surface brushes to complete infill removal. Redexim have a range to suit this ever developing surface.

Based in the Netherlands with main offices in Australia, China, America and United Kingdom, Redexim boasts distributors in over 100 countries, ensuring first class customer service and excellent product support.

IT IS THE POLICY OF REDEXIM®

To provide its customers with robust and reliable equipment built to meet the needs of the professional user. It is also our aim to develop an ongoing relationship with our customers and wherever possible, will always make our staff available to discuss particular requirements. We would be happy to make arrangements for practical demonstrations of any item of equipment through our dealer network.

CONTACT US FOR A DEMONSTRATION

Our commitment is to fully satisfy the needs of our customers. For immediate assistance contact us at:
verti-drain@redexim.com



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A E R A T I O N

One of the challenges that face the turf care professional is the battle against compaction. We hear so much these days about compaction and its associated problems that it is important for our users to understand precisely what is

meant by compaction, how it affects our turf and what can be done to alleviate it.

First of all let us identify the problem. Plants have certain basic requirements if they are to thrive; food, water, warmth and light are all obvious and readily spring to mind. In addition to this they require the right growing medium. This is usually described as rootzone; the rootzone should be

open and contain a high proportion of air as healthy plants require oxygen within the root zone. These air gaps and pockets provide the pathways through which both water and air can easily move around and be stored. In addition this assists both drainage and irrigation. It is also through these cavities that the plant develops and extends its root system.

Compaction exists within the soil when it has been forced together; causing the air gaps and pockets to close. When compaction develops, the micro-environment within the soil begins to go into decline causing anaerobic conditions to develop within the soil.



Pedestrian Carrier



Pedestrian Carrier

Operation	Hydrostatic	Standard item Solid tines Ø12x150mm (½x6") Optional items Solid tines from Ø5x125mm (3/16x5") Hollow tines from Ø10x125mm (3/8x5") Rear roller / Turf hold down fingers / Core Collector Verti-Drain® 1513 can be connected to tractor or used with the carrier.
Weight	950kg (430kg+520kg) (2090lbs)	
Working width	1320mm (52")	
Working depth max	150mm (6")	
Engine (petrol)	32hp, air cooled	
Capacity at 55mm (2 1/8") forward hole pattern	2388m²/h (25790sq.ft/h)	



Carrier & Verti-Knife® 1600.



Carrier & Precision Brush.



Carrier & Verti-Cut 1300.



Carrier & Verti-Drain® 1513.

Carrier & Dew Brush.

Optional smooth tyres.

Carrier & Rink 1010.

Carrier & Speed Seed 1200.



AERATION VERTI DRAIN®



Verti-Drain® 7110

Working width	1.0m (39")
Weight	360kg (792lbs)
Working depth max	150mm (6")
Capacity at 55mm (2 ½") forward hole pattern	1980m²/h (21300sq.ft/h)
Capacity at 125mm (5") forward hole pattern	4500m²/h (48437sq.ft/h)
Tractor required	13hp, lift cap 410kg (902lbs)

The 7110 requires a tractor with a minimum of 13hp, which makes this high speed Verti-Drain® versatile and suitable for limited access areas.

Standard items for 7110, 1513 & 1517 Solid tines Ø12x150mm (½x6"). Storage stand, quick heave adjustment lever, toolbox with tools, operators manual.
Optional items Solid tines from Ø5x125mm (3/16"x5") to Ø12x150mm (½"x6"). Hollow tines from Ø10x125mm (3/8"x5") to Ø18x150mm (¾"x6") Turf hold down fingers / Windrow kit / Rear roller (Rear roller standard for 7110, 1513 & 1517).



Verti-Drain® 1513

Working width	1.3m (51")
Weight	433kg (952lbs)
Working depth max	150mm (6")
Capacity at 55mm (2 ½") forward hole pattern	2388m²/h (25700sq.ft/h)
Capacity at 125mm (5") forward hole pattern	5427m²/h (58415sq.ft/h)
Tractor required	20hp, lift cap 500kg (1100lbs)

Mundsley Golf Club, founded in 1901, was designed with the help of the legendary 6 times Open Champion Harry Vardon. The club has just taken delivery of a new Verti-Drain® (1513) – a very fast lightweight aerator.

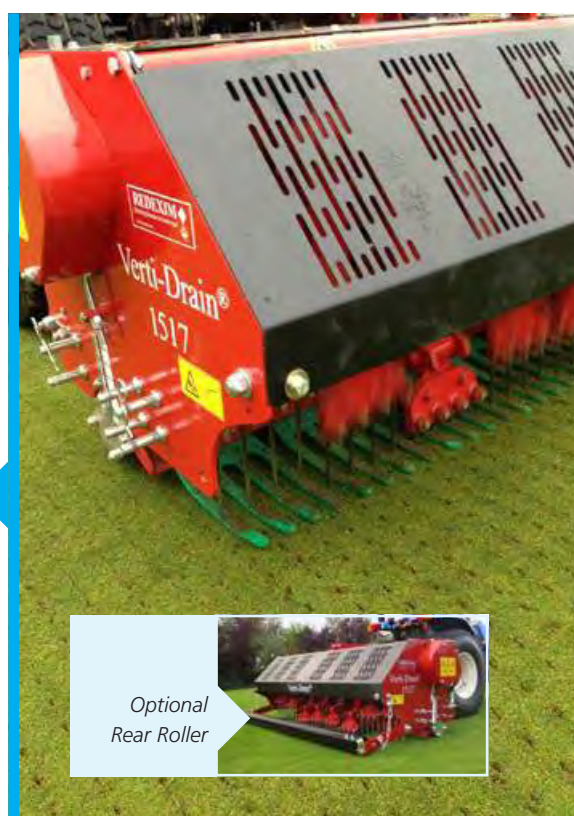
Head Greenkeeper Tim Gee's team particularly liked the speed of the machine whilst being able to cover the ground in a much shorter time frame.

They were also surprised by the good selection of tines available, and that changing a tine was only a five minute job. Depending on the weather they like to aerate once a month on the greens and tees. "Now that we have the new Verti-Drain® (1513) the minor water-logging we have in the lower area of the course will no longer be a problem", said Tim.

From Turf Professional

Verti-Drain® 1517

Working width	1.76m (69")
Weight	529kg (1166lbs)
Working depth max	150mm (6")
Capacity at 55mm (2 ½") forward hole pattern	3136m²/h (33759sq.ft/h)
Capacity at 125mm (5") forward hole pattern	7128m²/h (76725sq.ft/h)
Tractor required	28hp, lift cap 680kg (1496lbs)



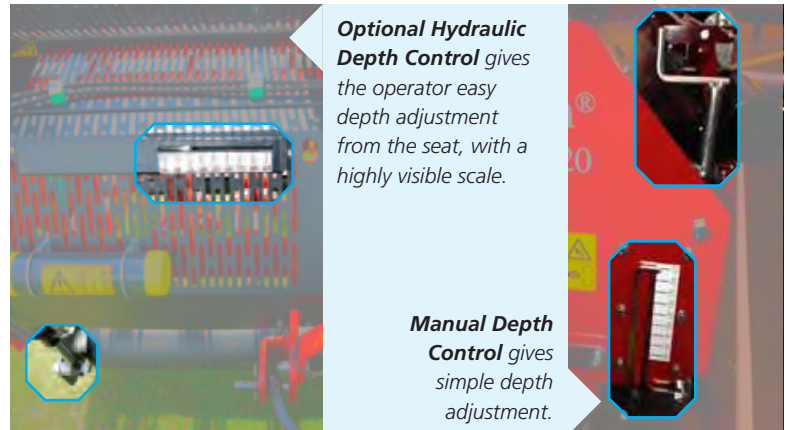
Optional
Rear Roller





Verti-Drain® 2216

Working width	1.6m (63")
Working depth	225mm (9")
Weight	840kg (1848lbs)
Capacity at 65mm (2 ½") forward hole pattern	2796m²/h (30196sq.ft/h)
Capacity at 130mm (5 ½") forward hole pattern	5592m²/h (60394sq.ft/h)
Min. Tractor required	45hp, lift cap 1050kg (2310lbs)



Verti-Drain® 2220

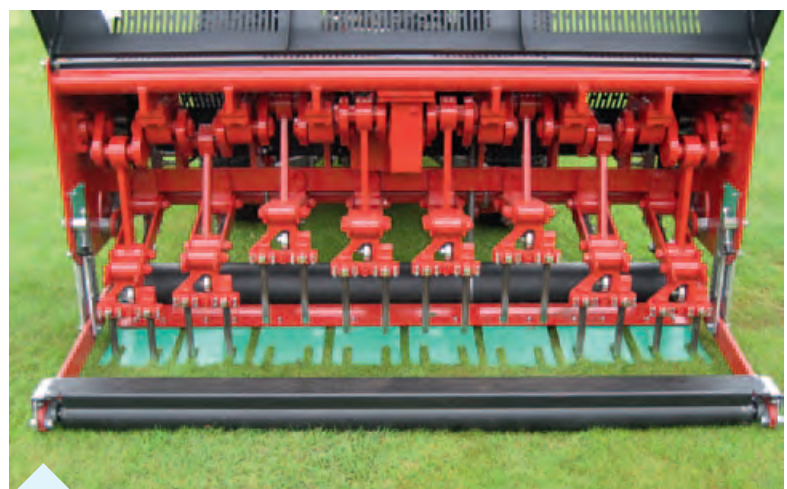
Working width	2.08m (82")
Working depth	225mm (9")
Weight	1030kg (2266lbs)
Capacity at 65mm (2 ½") forward hole pattern	3728m²/h (40262sq.ft/h)
Capacity at 130mm (5 ½") forward hole pattern	7456m²/h (80525sq.ft/h)
Min. Tractor required	50hp, lift cap 1300kg (2860lbs)

Standard items for 2216 & 2220 Solid tines Ø18x225mm. Adapters for tines with Ø24mm to Ø18mm. Front rollers with scrapers, PTO with slipclutch. Storage stand, toolbox with tools.

Optional items Solid tines from Ø5x125mm (3/16" x5") to Ø24x225mm (1" x9"). Hollow tines from Ø10x125mm (3/8" x5") to Ø32x225mm (1 ¼" x 9") Turf hold down fingers/ Windrow kit/ Rear roller/ Adapters for different tine diameters.



Double damping draw rod offer these high speed units smooth operation.



For large, compacted areas the Verti-Drain® 2220 with a working width of 2.08m is ideal.

AERATION VERTI DRAIN®



Verti-Drain® 7212

Working width	1.2m (47")
Working depth	variable to 250mm (10") max
Weight	484kg (1064lbs)
Capacity at 65mm (2 ½") forward hole pattern	1200m²/h (12960sq.ft/h)
Capacity at 165mm (6 ½") forward hole pattern	3000m²/h (32400sq.ft/h)
Min. Tractor required	17hp, lift cap 568kg (1250lbs)

Standard items for 7212 & 7215 Solid tines Ø12x250mm (½x10"), front & rear rollers with scrapers, PTO with slip clutch, storage stand, central quick adjustment lever, tool box with tools.

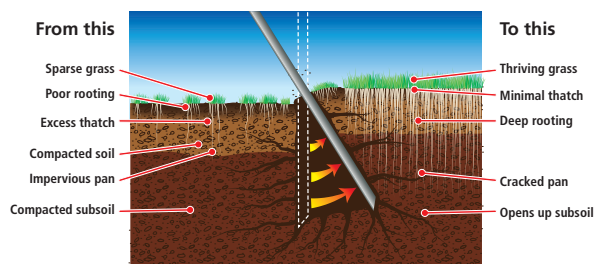
Optional items Multi tine heads, Solid tines: from Ø5 to Ø18mm, Hollow tines: from Ø10 x 125mm (3/8x5") to Ø24 x 250mm (1x10"), Cross Tines/ Core collector/ Turf hold down fingers/ Rotating brush.



Verti-Drain® 7215

Working width	1.56m (61")
Working depth	variable to 250mm (10") max
Weight	582kg (1280lbs)
Capacity at 65mm (2 ½") forward hole pattern	1870m²/h (20196sq.ft/h)
Capacity at 165mm (6 ½") forward hole pattern	4680m²/h (50544sq.ft/h)
Min. Tractor required	23hp, lift cap 700kg (1540lbs)

The 72 Series Verti-Drains are well suited to lower hp tractors where access is restricted or a lighter footprint is required. These highly productive machines are easily adjusted and work to a maximum depth of 25cm (10") and use 12mm or 19mm (½" or ¾") tines or mini-tines which are often used for Summer aeration.





The Verti-Drain® 7316 is an efficient machine for use on sportfields and all areas of the golf course. With penetration depths of up to 300mm(12") it will aerate up to 4,200m²/h (45,360 sq ft/hr) on fairways.

The Verti-Drain® 7416 is light enough for application on golf greens, while robust enough for hard soils. It penetrates the soil up to 350mm (14").



Verti-Drain® 7316

Working width	1.6m (63")
Working depth	variable to 300mm (12") max
Weight	697kg (1533lbs)
Capacity at 65mm (2 ½") forward hole pattern	1400m²/h (15120sq.ft/h)
Capacity at 165mm (6 ½") forward hole pattern	3640m²/h (39312sq.ft/h)
Min. Tractor required	27hp, lift cap 825kg (1815lbs)

Standard items for 7316 Solid tines Ø12x250mm (½x10"), front & rear rollers with scrapers, PTO with slip clutch, storage stand, central quick adjustment lever, tool box with tools.

Optional items Multi tine heads, Solid tines: from Ø5 to Ø18mm, Hollow tines: from Ø10 x 125mm (3/8x5") to Ø24 x 250mm (1x10"), Cross Tines/ Core collector/ Turf hold down fingers/ Rotating brush.

Needle Tines in the Summertime

In the hot summer months, when many golf courses see the highest number of rounds, aerators equipped with needle tines can open thousands of holes in a soil profile to help reduce or relieve long-term compaction problems. Needle tines, also known as pencil tines, can be one of the least-disruptive cultural practices used on greens. These treatments help provide passageways so water can move to the root zone, which improves drainage and irrigation

time and costs. Another benefit is that increased root growth means that turf plants can draw on water and nutrients located deeper within the soil and have a higher chance of survival in extreme conditions.



Verti-Drain® 7416

Working width	1.6m (63")
Weight	900kg (1980lbs)
Working depth max.	up to 350mm (14")
Capacity at 65mm (2 ½") forward hole pattern	1360m²/h (14688sq.ft/h)
Capacity at 195mm (7 2/3") forward hole pattern	4200m²/h (45360sq.ft/h)
Tractor required	35hp, lift cap 1050kg (2310lbs)

Standard items for 7416 Solid tines Ø18x300mm (¾"x12") for 7416, 7516 and 7521 / Solid tines Ø24x400mm (1"x16") for 7526. Front & Rear roller / Toolbox with tools / PTO with slip clutch / Storage stand integrated in machine.

Optional items Solid tines from Ø5x125mm (3/16"x5") to Ø24x225mm (1"x9"). Hollow tines from Ø10x125mm (3/8"x5") to Ø32x225mm (1 ¼"x 9"). Turf hold down fingers/ Windrow kit/ Rear roller/ Adapters for different tine diameters.

AERATION VERTI DRAIN®

Verti-Drain®	7516	7521	7526
Working width	1.6m (63")	2.1m (83")	2.6m (102")
Weight	1161kg (2554lbs)	1399kg (3077lbs)	1643kg (3614lbs)
Working depth max.	up to 400mm (16")	up to 400mm (16")	up to 400mm (16")
Capacity at 65mm (2 ½") forward hole pattern	1120m²/h (12096sq.ft/h)	1470m²/h (15876sq.ft/h)	1820m²/h (19656sq.ft/h)
Capacity at 195mm (7 2/3") forward hole pattern	3360m²/h (36288sq.ft/h)	4410m²/h (47628sq.ft/h)	5460m²/h (58968sq.ft/h)
Tractor required	45hp, lift cap 1350kg (2970lbs)	55hp, lift cap 1650kg (3630lbs)	65hp, lift cap 1900kg (4180lbs)

Verti-Drain® 7516



Standard items for 7516, 7521 & 7526 Solid tines Ø18x300mm (¾"x12") for 7416, 7516 and 7521 / Solid tines Ø24x400mm (1"x16") for 7526. Front & Rear roller / Toolbox with tools / PTO with slip clutch / Storage stand integrated in machine.

Optional items Solid tines from Ø5x125mm (3/16"x5") to Ø24x225mm (1"x9"). Hollow tines from Ø10x125mm (3/8"x5") to Ø32x225mm (1 ¼"x9"). Turf hold down fingers/ Windrow kit/ Rear roller/ Adapters for different tine diameters.

Verti-Drain® 7521



Verti-Drain® 7526 comes into its own in large open spaces including fairways, race tracks and large sports fields.

Verti-Drain® 7516 is a heavier model, penetrating up to 400mm (16") deep and is designed for hard areas.

Verti-Drain® 7521 This unit with a 2.1m working width is widely used by contractors and golf clubs.

Verti-Drain® 7526



Verti-Drain®	7621	7626
Working width	2.1m (83")	2.6m (102")
Weight	1744kg (3836lbs)	1994kg (4386lbs)
Working depth max.	400mm (16")	400mm (16")
Capacity at 65mm (2 ½") forward hole pattern	1620m²/h (17496sq.ft/h)	2000m²/h (21600sq.ft/h)
Capacity at 195mm (8") forward hole pattern	4850m²/h (52380sq.ft/h)	6010m²/h (64908sq.ft/h)
Tractor required	55hp, lift cap 2000kg (4400lbs)	65hp, lift cap 2300kg (5060lbs)

Verti-Drain® 7621



Standard items for 7621 & 7626

Solid tines Ø24x400mm (1"x16") / Front & Rear roller / 3-speed shuttle gearbox / Toolbox with tools / PTO with slip clutch / Storage stand integrated in machine.

Optional items Multi tine heads: 8 (7621) or 10 (7626) units / Solid tines: from Ø8 to Ø24mm (¼"-1") / Hollow tines: from Ø10x125mm to Ø32x300mm / Bogey wheel kit.



Verti-Drain® 7621 has a 2.1m working width, requiring a tractor of at least 55hp with a lift capacity of 2000kg.

Verti-Drain® 7626



Depth adjustments for the 76 Verti-Drain® Series are made from the comfort of the operators seat, via the tractors hydraulic controls.



AERATION VERTI DRAIN® ACCESSORIES



Wheel Kit

A retro-fit bogey wheel system is available for easy transport. This also means that a tractor with less lift capacity is required.



Windrow Kit

The Windrow kit aligns the cores for easy collection.



Core Collector

The Core Collector uses a special two stage collecting system. A flexible rubber flap gathers the cores. Behind is a row of ground following aluminium fingers to ensure that all material is collected without the risk of damage to the turf.



Rotating Brush

A rotating brush on the rear of the Verti-Drain® incorporates sand into the holes, levels the ground or breaks up the cores. The brushes are segmented, so that it is ideally suited to process the material.



Turf hold down fingers

The turf hold down fingers ensure that, when verti-draining or coring, there is no danger of damage to the turf even with a shallow root system.



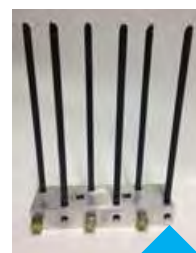
Rocket Tines

Rocket tines for the 76 series are used if a large amount of sand needs to be introduced into the topsoil. After topdressing has been spread, these thick tines "push" the sand into the soil. Then the soil is decompacted by using long, ø 24mm solid tines, with "kick" applied to the tines.



Multi Tine Head

These ø5mm tines are well suited for over-seeding or light summer aeration, making the most of irrigation.



Needle Tine Head

ø8mm needle tines, also known as pencil tines, can be one of the least-disruptive cultural practices used on greens.

Model Verti-Quake®	2510	2516	2521	3825
Working width	1.1m (43")	1.6m (63")	2.1m (83")	2.5m (87")
Working depth max.	250mm (10")	250mm (10")	250mm (10")	380mm (15")
Weight	520kg (1144lbs)	622kg (1368lbs)	690kg (1518lbs)	1729kg (3803lbs)
Tractor required, lift cap.	30hp, 650kg (1430lbs) lift cap.	35hp, 750kg (1650lbs) lift cap.	50hp, 850kg (1870lbs) lift cap.	80hp, 2000kg (4400lbs) lift cap.
3-point connection	cat 1 and 2	cat 1 and 2	cat 1 and 2	cat 2
Capacity (max)	1510m ² /h (16308sq.ft/h)	2400m ² /h (25920sq.ft/h)	3150m ² /h (34020sq.ft/h)	3780m ² /h (40687sq.ft/h)
Number of blades	12	18	24	30
Blade thickness	12mm (0.5")	12mm (0.5")	12mm (0.5")	15mm (0.6")

Optional items for 2510, 2516, 2521 & 3825 Coulter knives for keeping the slits open.

Verti-Quake® 2510



Verti-Quake® 2521



Verti-Quake® 2516



Verti-Quake® 3825



How does it work?

Decompaction of the soil takes place via offset blades. Their rotary motion, combined with the forward speed, sets up a wave action. Thus the soil is shattered laterally, and decompacted consistently from the surface to full working depth without surface damage.



The Verti-Quake® vastly improves drainage, root development, plus the uptake of moisture and nutrients. 4 Verti-Quake® models are available, with a working depth up to 550mm. The Verti-Quake® decompacts the soil via rotating off-set blades, shattering it laterally.



AERATION VERTI CORE®/EASY CORE



Verti-Core® 1600

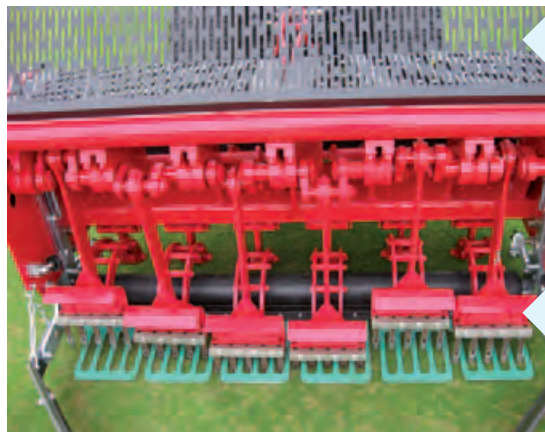
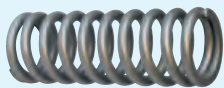
Working width	1.6m (63")
Working depth	125mm (5")
Weight	820kg (1804lbs)
Tractor recommended	45hp with 1000kg lifting capacity
Max. capacity	5760m ² (62,208sq.ft) (at hole spacing 11x11cm)

The Verti-Core® 1600 is a highly productive and low maintenance turf aerator. Robust construction combined with simple adjustments make the Verti-Core® reliable and easy to use.

Optional items for 1600 hollow+solid tines / core collector / windrow kit / hollow+solid tines / anti-vibration System.

Anti-vibration system

An optional anti-vibration system, containing a strong spring, can be added for stony conditions. This can be fitted to Verti-Drain® and Verti-Core® equipment.



A sturdy crank drives the tine arms.

Support arms enable the Verti-Core® to work in extremely tough conditions.

Special core deflectors keep the cores away from the machine.



Easy-Core 116

Working width	1.1m (43")
Working depth	70mm (3")
Weight	326kg (717lbs)
Tractor recommended	None: own engine 12hp
Max. capacity	7800m ² (84,240sq.ft) (at hole spacing 6½x17cm)

The Easy-Core 116 is powered by its own 12hp engine, it can be operated behind virtually any towing vehicle including ride on mowers.

The tines of these aerators penetrate the soil perfectly vertical, with the penetration depth limited they are able to run at high speeds.



Model Easy Core	104	108	208
Working width	360mm (14")	520mm (20")	520mm (20")
Working depth	70mm (3")	70mm (3")	70mm (3")
Weight	94kg (207lbs)	136kg (299lbs)	146kg (321lbs)
Engine	5½hp B.&Stratton*	5hp Honda	5½hp Honda
Engine drive	non-driven	non-driven	driven
Standard Hollow Tines	Ø22x16x70mm	Ø22x16x70mm	Ø22x16x70mm
Tine amount per set	4	8	8
Capacity (max)	2043m³/h (22064sq.ft/h)	2550m³/h (27450sq.ft/h)	2780m³/h (30024sq.ft/h)

Optional items for 104, 106, 108 & 208 Hollow Tines: Ø16x9 ½x70mm or Ø22x16x70mm or Ø45x38x70mm. Solid Tines: Ø9 ½x70mm or Ø22x70mm. Chariot-ride behind kit (for model 208 only) / Special air-filled tyres. * 5hp Honda engine is optional for model 104

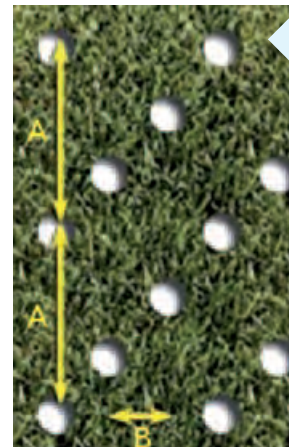


Models 104 and 108 are all non-driven, and contain respectively 4 and 8 tine arms, while model 208 is driven and contains 8 tine arms.



Pneumatic tyres are optional.

There are 3 models in the Easy-Core range. A simple but effective aerator. When soil compaction is relieved, this leads to better root growth and improved drainage. This aids thatch control, and stimulates the density of the turf.



Hole spacing:
Easy Core 104
A = 15cm, B = 9cm

Easy Core 108 + 208
A = 17cm, B 6½cm

AERATION MULTI SPIKE & LEVEL SPIKE

Model	Multi-Spike 1200	Level-Spike 1700	Level-Spike 2200
Working width	1.35m (53")	1.8m (71")	2.4m (94")
Road width	1.45m (57")	1.86m (73")	2.47m (97")
Weight	402kg (884lbs)	410kg (902lbs)	504kg (1108lbs)
Tractor required	Min. 18hp	Min. 35hp	Min. 45hp
Working depth	up to 250mm (10")	up to 250mm (10")	up to 250mm (10")
Number of mounting discs	9	12	16
Standard supplied with	36 truckster knives + rear roller	48 deep slit knives	64 deep slit knives
Knives/coring tines number	Standard/Maximum	Standard/Maximum	Standard/Maximum
- Truckster knives	36/54	48/72	64/196
- Deep Slit knives	36/54	48/72	64/196
- Fine Slit knives	192/192	264/264	360/360
- Twisted Deep Slit knives	36/54	48/72	64/196
- Hollow Coring tine	54/108	72/144	96/192
Four knife sizes + spoon tines			
	Max. working depth		Thickness
Deep Slit Knife	250mm		5mm
Truckster Knife	200mm		3mm
Fine Slit Knife	100mm		3mm
Twisted Deep Slit Knife	250mm		5mm
Hollow Tine	125mm		26mm Ø
Twisted Deep Slit knives are designed in a twisted form so that a more aggressive slicing job can be done.			
Optional items for 1200, 1700 & 2200 wheelkit & weight transfer system, rear roller.			



The Multi-Spike 1200 can be utilised with a wheel kit for transport (above left). In this configuration the Multi-Spike can be used in conjunction with virtually any prime mover which has basic flow and return hydraulics.

The Multi-Spike and Level-Spike open the soil with different size knife options.

The optional weight transfer system ensures that the weight of the tractor is transferred on to the knives in hard soil conditions.





The Verti-Knife® uses discs of different diameters which penetrate through the soil, up to a depth of 150mm. The movement of air, water and nutrients is encouraged throughout the critical root zone area. This results in vastly improved root density and rooting depth.



The double axle with discs for intense surface aeration.



The optional wheel kit ensures that small tractors or utility vehicles can operate the Verti-Knife® 1600.

Model	Verti-Knife® 1600		
Working width	1.6m (63")		
Road width	2.0m (79")		
Weight	350kg (770lbs)		
Tractor required	Min. 25hp		
Working depth	surface aeration 40mm (1.6")	intense surface aeration 40mm (1.6")	deep aeration 25-150mm (1"-6")
Number of mounting discs	15 30 6		
Standard supplied with	discs + axles for intense aeration + rear roller		

Optional items for 1600 & 2500 Deep aeration axle set.

3 FUNCTIONS		
The Verti-Knife® has 3 basic functions and positions. By interchanging the different axles and discs:		
Position 1 Surface Aeration		
Working depth	10-40mm	The 15 minidiscs (working depth up to 40mm) are ideally used when roots are shallow, and when minimal surface disturbance is required
Disc diameter	200mm	
Disc thickness	3mm	
Number of discs	15	
Disc Spacing	100mm	
Position 2 Intense Surface Aeration		
Working depth	40mm	A cassette of 30 minidiscs can be adjusted to a working depth up to 40mm, for very intense aerification. Disc spacing is only 50mm.
Disc diameter	200mm	
Disc thickness	3mm	
Number of discs	30	
Disc Spacing	50mm	
Position 3 Deep Aeration		
Working depth	25-150mm	Six discs with a large diameter of 450mm, at 300mm spacings, penetrate the soil up to 150mm. Disc spacing is 300mm.
Disc diameter	450mm	
Disc thickness	4mm	
Number of discs	6	
Disc Spacing	300mm	

Model	Verti-Knife® 2500
Working width	2.5m (98")
Road width	2.82m (111")
Weight	2242kg (4943lbs)
Tractor required	Min. 80hp
Working depth	80mm (3.2")
Standard supplied with	72 discs on 2 axles, 35mm slit distance

The robust Verti-Knife® 2500 is ideal to aerate large areas quickly, the durable discs cope with the hardest of conditions.





OVERSEEDING

The provision of favourable germination and establishment conditions are essential to the success of any overseeding operation if high mortality rates are to be avoided.

With soil temperatures of 12°C and above, a moist, well-aerated seedbed, close seed/soil contact and reduced shade from existing grasses are primary requirements for rapid development.

Intermittent germination or entire failure is often a consequence of poor seed/soil contact, inadequate surface drainage and/or insufficient seedbed preparation. Whilst the presence of thatch can severely

inhibit seed germination, compaction and restricted soil aeration can also dramatically suppress seedling establishment. Soil aeration and thatch control must form part of a routine maintenance programme so that optimum conditions are provided. If you neglect these priorities until just prior to overseeding you can easily jeopardise the end result.

If you are trying to adjust the species compositions, applications of any form of nitrogen should be withheld for at least a month prior to overseeding and the application of a growth regulator prior to overseeding can help with the establishment of new seedlings.



OVERSEEDING SPEED SEED

Speed-Seed	WB	1200	1600	2100	2400
Working width	0.61m (24")	1.2m (47.2")	1.6m (63")	2.1m (83")	2.4m (94")
Weight	247kg (543lbs)	383kg (842lbs)	460kg (1010lbs)	613kg (1348lbs)	704kg (1548lbs)
Number of holes	940 per m ² (783 per sq.yd) or 1840 per m ² (1533 per sq.yd) with optional 2nd spiked roller				
Hopper capacity	10kg (22lbs)	168ltr (6cu.ft)	225ltr (8cu.ft)	300ltr (10.7cu.ft)	336ltr (12cu.ft)
Seed-density	fully adjustable for any type of seed				
Tractor required	own engine, 6½hp	20hp+450kg (990lbs) lift.	30hp+550kg (1210lbs) lift.	35hp+800kg (1760lbs) lift.	40hp+850kg (1870lbs) lift.
Ground speed	up to 5km/h	up to 10km/h (6mph)			

Optional items for 1200, 1600, 2100 & 2400 2nd spiked roller and dirt scraper for spiked roller.

Optional item for WB dirt scraper for spiked roller.

Speed-Seed WB



The self-propelled Speed-Seed WB carries out all overseeding needs on fine turf areas, and is fitted with a 6½ hp engine, a mechanical drive with a forward speed of up to 5 km/h. The rear brush sweeps the seed into the mass of holes – leaving a groomed finish.

Speed-Seed



The Speed-Seed models are ideal to over-seed large areas quickly. When both the front and rear roller are equipped with the individual cast rings, a total of 1840 holes per m² can be achieved.

Speed-Seed

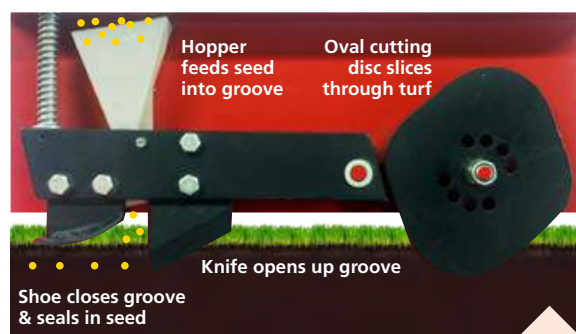


An optional scraper is available for the Speed-Seed to keep the spikes clean from soil. Extra weights can be added in tougher conditions to aid penetration.

OVERSEEDING VERTI SEED

Model	Verti-Seed 804	Verti-Seed 1204
	PTO driven	PTO driven
Working width	0.84m (33")	1.24m (49")
Weight	450kg (990lbs)	590kg (1298lbs)
Disc spacing	40mm (1 9/16")	40mm (1 9/16")
Cutting depth	0-30mm (0-1 1/4")	0-30mm (0-1 1/4")
Hopper Capacity	95ltr (21 gallon)	145ltr (32 gallon)
Seed density	fully adjustable for any type of seed up to 4grm/m ² (¼lbs/1000sq.ft)	
Tractor required	17hp, 600kg (1320lbs) lift cap.	22hp, 750kg (1650lbs) lift cap.
Ground Speed	up to 10km/h (6mph)	up to 10km/h (6mph)
Capacity	up to 6000m ² /h (7176sq.yd/h)	up to 10000m ² /h (11960sq.yd/h)

Optional items for 804 & 1204 Verti-Seed: Fine dosing kit for seeding up to 2grm/m² (0.4lbs/1000sq.ft).



The Verti-Seed's unique action first opens the turf using special oval shaped discs followed by small chisels. The seed is then fed through the seeding funnel and released just above the slit where the wind cannot blow it away. The seed is deposited in the furrow accurately and can be precisely adjusted to give you exact rates even for very fine seed, like bents and fescues. The furrow is then sealed by the seeding shoe. Each seeding element is independently sprung enabling the Verti-Seed to accurately seed on any ground contour.

The Verti-Seed is designed for the professional user who wants precision control of dosage and depth, ensuring maximum germination for all seed types. The Verti-Seed's

unique action provides direct seed contact with the soil which ensures good germination rates.

Verti-Seed



OVERSEEDING OVERSEEDERS

Model	Overseeder 1275 trailed	Overseeder 1575 trailed	Overseeder 1575LV trailed (light version)	Overseeder 2075 trailed
Working width	1.2m (47")	1.58m (62")	1.58m (62")	2.08m (82")
Weight	676kg (1487lbs)	1172kg (2578lbs)	825kg (1815lbs)	1507kg (3315lbs)
Disc spacing	75mm (3")	75mm (3")	75mm (3")	75mm (3")
Cutting depth	0-30mm (0-0.8")	0-30mm (0-0.8")	0-30mm (0-0.8")	0-30mm (0-0.8")
Hopper Capacity	168ltr (37 gallon)	225ltr (49 gallon)	225ltr (49 gallon)	300ltr (66 gallon)
Seed density	fully adjustable for any type of seed		fully adjustable for any type of seed	
Tractor required	35hp, 900kg (1980lbs) lift cap.	40hp, 1300kg (2860lbs) lift cap.	35hp, 950kg (2090lbs) lift cap.	50hp, 1600kg (3520lbs) lift cap.
Ground Speed	up to 10km/h (7.5mph)	up to 12km/h (7.5mph)	up to 12km/h (7.5mph)	up to 12km/h (7.5mph)
Capacity	up to 14400m ² /h (17222sq.yd/h)	up to 18900m ² /h (22604sq.yd/h)	up to 18900m ² /h (22604sq.yd/h)	up to 24909m ² /h (29791sq.yd/h)

Optional items for 1275, 1575, 1575LV & 2075 Verti-Seed: Fine dosing kit for seeding up to 2grm/m² (0.4lbs/1000sq.ft).

Overseeder



The Overseeder buries the seed up to 20mm ($\frac{3}{4}$ ") deep in the ground, safe from the beaks of hungry birds and out of the way of the wind. The amount of seed is controlled to a highly accurate degree and the Overseeder takes undulating ground firmly in its stride. This is thanks to individually mounted coulters that allow the seeder to work in difficult conditions.



Overseeder in transit.



The seed drops between the discs into the groove.

Minimal ground disturbance following overseeding.



Overseeder 1275 equipped with the optional wheel kit.



OVERSEEDING DISC SEEDERS

Model	Double Disc 1430	Double Disc 1830	Double Disc 2230
Working width	1.4m (55")	1.83m (72")	2.4m (94")
Weight	1314kg (2890lbs)	1594kg (3506lbs)	1870kg (4210lbs)
Disc spacing	30mm (1.18")	30mm (1.18")	30mm (1.18")
Cutting depth	5-30mm (0.25-0.8")	5-30mm (0.25-0.8")	5-30mm (0.25-0.8")
Hopper Capacity	230ltr (50 gallon)	300ltr (66 gallon)	360ltr (79 gallon)
Seed density	fully adjustable for any type of seed		
Tractor required	50hp, 3000kg at ball end (6,613lbs) lift cap.	60hp, 3600kg at ball end (7,936lbs) lift cap.	75hp, 4450kg at ball end (9,810lbs) lift cap
Ground Speed	up to 12km/h (7.5mph)	up to 12km/h (7.5mph)	up to 12km/h (7.5mph)
Capacity	up to 16920m ² /h (20236sq yd/h)	up to 21960m ² /h (26263sq yd/h)	up to 27000m ² /h (32291sq yd/h)

Disc Seeder



The Double Disc Overseeder delivers the seed into the soil via the discs, which cuts slits 3cm apart, ensuring maximum germination.

Optional trailed wheel kit.



Double discs provide a 3cm seed spacing.





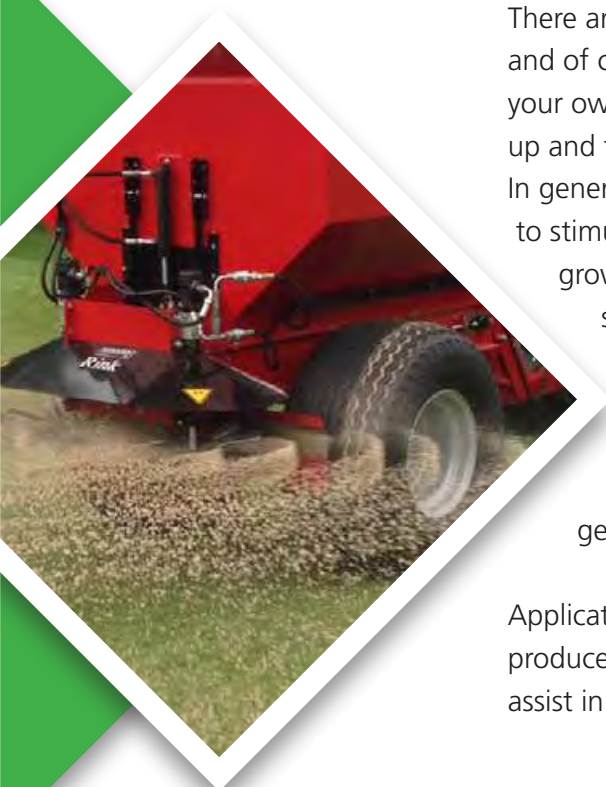
TOP DRESSING

There are many reasons to top dress and of course these can depend on your own circumstances, soil make up and types of grass are just two. In general terms people are looking to stimulate new root and shoot growth giving an improved sward, and to cover seed allowing it to make contact with soil and providing insulation for the seed and maximising germination rates.

Applications of top dressings help to produce firm fast surfaces and also assist in the breaking down of any

thatch. Firm fast greens will require regular top dressings to provide the necessary resilience.

Heavy applications of predominately sandy materials on sports pitches can help to shape the camber of the surface and improve drainage. Suitable top dressings can be used to connect the surface with the drainage layers beneath by brushing them into Verti-Drain® holes. Existing soils can be improved and even exchanged by applications of suitable top dressings following a hollow coring programme.



TOP DRESSING RINK

Model Rink	SP950 pedestrian	TB950 trailed	1204	1205	1005	1010	1210
	Self-propelled		for Cushman Turf Truckster	for John Deere Prologator/ Toro Workman	3-point hitch version		
Spreading width	0.95m (37")	0.95m (37")	1.80m (71")	1.80m (71")	1.50m (59")	1.50m (59")	1.80m (71")
Spreading thickness	0.3 to 10mm	0.3 to 10mm	0.3 to 10mm	0.3 to 10mm	0.3 to 10mm	0.3 to 10mm	0.3 to 10mm
Weight	280kg (616lbs)	190kg (418lbs)	300kg (660lbs)	300kg (660lbs)	200kg (440lbs)	270kg (594lbs)	370kg (814lbs)
Hopper capacity level	0.33m³	0.33m³	1.0m³	1.0m³	0.75m³	0.75m³	1.0m³
Tractor size	self-propelled 6.5hp engine	Any pull vehicle			25hp +:	20hp +:	20hp+:
			double acting hydraulic valve and min. oil supply of:				
				12l/ min@120bar	12l/ min@120bar	20l/ min@140bar	20l/ min@140bar

Optional items Auxiliary tank and pump unit (Rink 1010,1210, 1520) / Own 13hp engine (Rink 1010, 1520) / 4 pivoting wheels (Rink 1520).

Rink SP950 Pedestrian



The Rink SP950 is powered by a 6.5hp engine, the weight of the machine is evenly distributed over 6 wheels in order to minimize ground pressure.



A Quad or ATV easily operates the Rink TB950 trailed.

Rink TB950 trailed



Rink TB950 trailed is a wheel driven topdresser and can be towed by virtually any vehicle. The brush and conveyor belt are driven by the 4 wheels (or optional by 2 wheels), ensuring a consistent application rate.



Simple metering for top dressing delivery.



Rink 1003 & 1005



These lightweight Dressers can easily be fitted to many different vehicles.

The Kubota RTV with the custom made Rink 1003 with 0.4m³ hopper capacity.



The Rink 1005 has a capacity of 0.75m³.

Rink 1204 & 1205



The Rink 1204 & 1205 hoppers are made of aluminium and can be mounted onto utility vehicles. They cover the tyre marks of the vehicle due to their large working width of 1.8m. Rink 1205 for the John Deere ProGator (above) and Toro Workman (below right).



Rink 1204 for the Cushman Turf Truckster.

Rink 1010



The floatation tyres minimise ground pressure and the lightweight hopper is made of aluminium to avoid corrosion.

Rink 1210



The Rink 1210 has low sides, for easy refilling and ensures the operator has a good rear view.

The Dry-sand plate ensures extra accurate spreading.



TOP DRESSING RINK

Model Rink	1520	1622	3045
Spreading width	1.40m (55")	2.0m (79")	2.0m (79")
Spreading thickness	0.3 to 40mm	0.3 to 40mm	0.3 to 40mm
Weight	950kg (2090lbs)	1062kg (2336lbs)	1950kg (4290lbs)
Hopper capacity level	2.0m³	2.2m³	4.5m³
Tractor size	25hp+: 25l/min@ 140bar	35hp +: 25l/min@ 140bar	65hp +: 40l/min@ 175bar

Optional items for 1520 Auxiliary tank and pump unit, 4 pivoting wheels

Rink 3045



The Rink 3045 has a capacity of 4.5m³.

Rink 1520



As an optional extra the Rink 1520 can be equipped with 4 small pivoting tyres.

The Rink 1520 has an extremely accurate spread.



Rink 1622



The Rink 1622 is extra wide (2m working width) so that less passes are needed.



DS550SP, is our latest topdresser, and the first ever pedestrian disc spreader on the market. It is powered by a 12hp engine and spreads topdressing material up to 12 meters wide.

The DS550 can be easily mounted onto a Cushman Turf Truckster.

Model Rink	DS550SP pedestrian	DS550 trailed	DS550 for Cushman Turf Truckster
Spreading width	2 to 12m (6½-40ft) variable		2 to 12m (6½-40ft) variable
Spreading thickness	0.5 to 15mm (0.02-0.60")		0.5 to 15mm (0.02-0.60")
Weight	500kg (1102lbs)	420kg (925lbs)	320kg (704lbs) incl subframe
Hopper capacity level	0.55cu.m (19½cu.ft)	0.55cu.m (19½cu.ft)	0.55cu.m (19½cu.ft)
Tractor size	self propelled, 18hp engine	25hp+:	utility vehicle with:
		Double acting hydraulic valve and min. oil supply of 25lt/min by 140 bar (2031psi)	



Model Rink	DS800 trailed	DS800 for J. Deere Progator + Toro Workman
Spreading width	2 to 12m (6½-40ft) variable	
Spreading thickness	0.5 to 15mm (0.02-0.60")	
Weight	460kg (1012lbs)	440kg (968lbs) incl subframe
Hopper capacity level	0.8cu.m (28cu.ft)	0.8cu.m (28cu.ft)
Tractor size	25hp+: Double acting hydraulic valve and min. oil supply of 25lt/min by 140 bar (2031psi)	utility vehicle with oil pump with oil pump with min.oil supply of 25lt/min at 140 bar (2031psi)

The Rink DS800 can be mounted to either a Toro Workman or John Deere Progator.



DS550, 800 trailed. These disc spreaders have a hopper capacity of 0.55m³, 0.8m³. The operation of the belt and spinners is carried out from the tractor seat.

The pivoting axles take undulations in their stride.



TOP DRESSING RINK

Model Rink	DS1200 towed
Spreading width	2 to 12m (6½-40ft) variable
Spreading thickness	0.5 to 15mm (0.02-0.60")
Weight	490kg (1078lbs)
Hopper capacity level	1.2cu.m (42cu.ft)
Tractor size	25hp+: Double acting hydraulic valve and min. oil supply of 25lt/min at 140 bar (2031psi)

Optional items for DS800 Towed, DS2000 Towed, DS3800 Towed
Conveyor belt.



Optional
an electrical control panel, carried to the operators seat, controls the belt and spinner feed.



Belt and spinner speed controls allow for fine adjustment.



Model Rink	DS2000 towed
Spreading width	2 to 15m (6½-49ft) variable
Spreading thickness	0.5 to 15mm (0.02-0.60")
Weight	820kg (1804lbs)
Hopper capacity level	2.0cu.m (70cu.ft)
Tractor size	35hp+: Double acting hydraulic valve and min. oil supply of 25lt/min at 140 bar (2031psi)



Optional the cross conveyor weighs 150Kg and has a length of 3m and the width of the belt is 30cm.



Model Rink	DS3800 towed
Spreading width	2 to 15m (6½-49ft) variable
Spreading thickness	0.5 to 15mm (0.02-0.60")
Weight	1800kg (3960lbs)
Hopper capacity level	3.8cu.m (125cu.ft)
Tractor size	60hp+ single acting valve or brake valve PTO driven

Model Easy-Spread	Rink Handspreader	1000TR	1500TR	2000TR	Rink 2020 drum spreader
Operation	Manual	trailed, on tyres	trailed, on tyres	trailed, on tyres	trailed, PTO driven
Working width	0.60m (24")	1m (39")	1.5m (59")	2.0m (79")	1.4m (55")
Spreading thickness	0.3 to 10mm (0-0.4")	0-10mm (0-0.4")	0-10mm (0-0.4")	0-10mm (0-0.4")	3.25mm
Weight (empty)	50kg (110lbs)	480 (1058lbs)	633kg (1392lbs)	796kg (1751lbs)	950kg (2090lbs)
Hopper capacity	100 litres	0.57m ³ (20.12qu.ft)	0.87m ³ (30.7qu.ft)	1.17m ³ (41.3qu.ft)	2.0m ³ (71qu.ft)
Tractor required		40hp + two double acting hydraulic outlet	45hp + two double acting hydraulic outlet	50hp + two double acting hydraulic outlet	25hp

The Easy-Spread TR series is a 1 man and tractor operation. The large hopper is hydraulically raised or lowered by powerful hydraulic cylinders for loading and spreading. A wheel transfer frame then takes the weight when transporting the heavy load.

Easy-Spread 1000TR, 1500TR & 2000TR



The Easy-Spread 2000TR carries the load over 7 tyres.

Rink 2020 Drum Spreader



The Rink 2020 is ideal for spreading coarse material.

The PTO driven Rink 2020 contains a drum at the rear and is ideal to spread coarse material.



Rink Handspreader



The Rink Handspreader is especially useful to spread the topdressing material in difficult to reach areas or tight spots.



SCARIFICATION, MOWING SWEEPING & COLLECTION

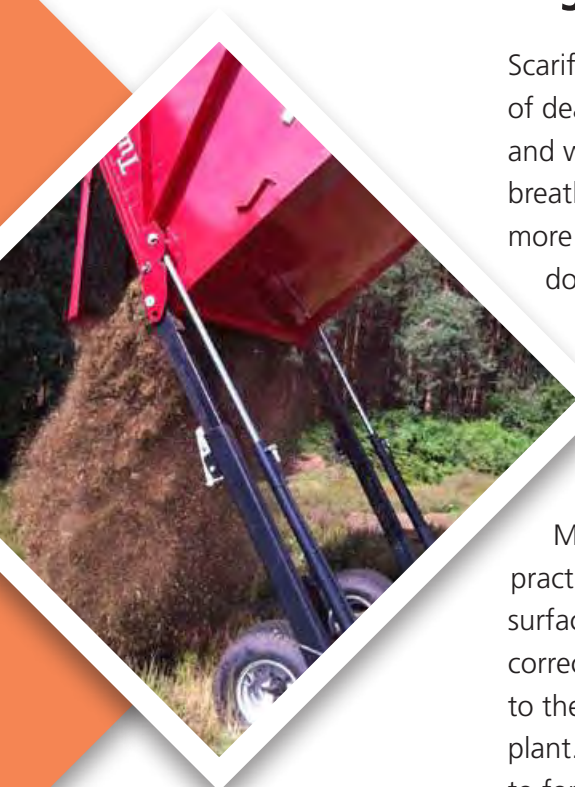
Scarification – rids the turf structure of dead and decaying organic matter and will of course allow the plant to breathe, allowing gaseous exchange more readily and maintain good downward movement of moisture and nutrients. This in turn gives a far more vigorous, uniform and all together more vibrant coverage.

Mowing – one of the most basic practices in the maintenance of a surface. Mowing performed to the correct height and frequency is key to the health and density of the plant. Cutting leaf tips induces plants to form new shoots, increasing

sward density. A healthy sward is more likely to withstand disease and additionally require less pest control.

Sweeping – the Turf Tidy is capable of being fitted with a brush rotor enabling this versatile machine to sweep on hard surfaces as well as sports surfaces giving a clean and tidy sweep leaving your surface in pristine condition.

Collection – ensuring all unwanted debris is taken away, preventing the risk of disease or unwanted species regaining a foothold is an essential part of any turf programme.



SCARIFICATION, MOWING SWEEPING & COLLECTION **TURF TIDY**

The Turf-Tidy is a versatile sweeping machine, incorporating de-thatching, verticutting and flail cutting.

The Turf-Tidy's fully floating head follows the grounds' contours ensuring accurate cutting and pick up. The excellent draft makes a clean sweep of leaves, pine needles, paper and grass clippings. The Turf-Tidy is supplied as standard with scarifier blades, but can also be equipped with different flail blades.

Model Turf-Tidy	2300	3000
Working width	1.4m (55")	1.8m (71")
Hopper capacity	2.3m³ (81cu.ft)	3.0m³ (106cu.ft)
Weight	1360kg (2998lbs)	1528kg (3369lbs)
Recommend min. tractor size		
-as sweeper	25hp	25hp
-as scarifier	35hp	45hp
-as flail mower	40hp	45hp
Tractor hitch	Trailed ring and pin	Trailed ring and pin
Tractor hydraulic requirements	1 single and 1 double acting outlet	1 single and 1 double acting outlet
PTO Speed	up to 540rpm	up to 540rpm
Tipping height	2170mm (85")	2170mm (85")

Standard items for 2300 & 3000 Set of scarifier blades, PTO shaft, front roller, draw bar.

Optional items for 2300 & 3000 Brush kit, front wheels, 2 extra rear wheels (to make total of 4) brush system (model 3000 only).

Turf-Tidy 2300



Easy access to the rotor for blade changing.



Brush head for sweeping hard surfaces.

Turf-Tidy 3000



Shown here in mowing configuration.

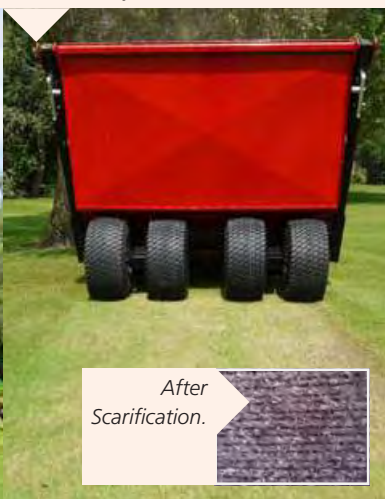


Special wind paddles ensure a better pickup of the debris when scarifying.

The tipping height of the hopper is 2.17m.



The Turf-Tidy 3000 (here busy scarifying) can be optionally equipped with 4 rear tyres.



After Scarification.



The Turf-Tidy model 3000 has the extra advantage of containing a fully floating head, following the ground contours and thus ensuring an accurate cut and collect.

SCARIFICATION, MOWING SWEEPING & COLLECTION VERTI-CUT

Vert-Cut 2000



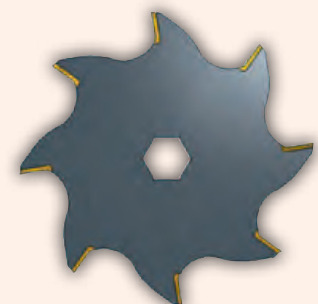
Model Verti-Cut	1300 Pto	2000
Weight	167kg (3674lbs)	422kg (928lbs)
Working width	1300mm (51")	2000mm (78")
Working depth	25mm (1")	10mm (0.4")
Tractor required	18hp at 540rpm Pto	30hp with min lift cap. 500kg (1102lbs)
Standard items	Storage stand / Pto Set of knives 2mm carbide tip	Set of knives 2mm carbide tip, Pto

Optional items for 1300 and 2000 Knives 1mm, knives 3mm

Vert-Cut trailed



The trailed Verti-Cut scarifier comes as a Pto driven version model 1300.



SCARIFICATION, MOWING SWEEPING & COLLECTION **PEDESTRIAN**

Model	S510 Pedestrian	160 Pedestrian	161 Pedestrian
Weight	48kg (106lbs)	74kg	74kg
Working width	460mm (18")	50cm	50cm
Working depth	30mm (1.2")	15mm (0.6")	30mm (1.2")
Spacing	- with 15 blades 30 mm - with 29 blades 15 mm	48 Swing blades 20 mm	24 fixed blades 20 mm
Blade Thickness	see chart below	3mm	1.5mm
Wheels rear	4.10/3.50-4 Pneumatic with inner tube, heavy duty steel rims and greasable 1" bearings	Solid wheels with bearings	Solid wheels with bearings
Wheels front	8 x 1.75 semi-pneumatic	Solid wheels with bearings	Solid wheels with bearings
Drive belt	3/8" heavy duty positive drive edge	Twin	Twin
Engine	Honda, 5.0 hp, 4 cycle	Honda GX 160, 5.5 hp, 4 cycle	Honda GX 160, 5.5 hp, 4 cycle

S510 Pedestrian





The S510 Pedestrian Scarifier is a professional verti-cutting machine on a welded robust steel frame.

160/161 Pedestrian



Blade types:

Straight blade (standard) 	
Thickness	1.2mm (1/16") oil tempered blade
Function	for fine scarifying like golfgreens.
Number of blades	15 blades
Optional	14 extra blades
Diamond blade 	
Thickness	2.8mm (1/8") oil tempered blade.
Function	for hard conditions.
Number of blades	14 blades
Blade with offset cutting tips	
Function	for aggressive scarifying.



Typical results from scarification.

SCARIFICATION, MOWING SWEEPING & COLLECTION **CORE COLLECTOR**

Core-Collector	3001HL
Working width:	1000mm (39")
Weight:	320kg (705lbs)
Engine:	7½hp
Hopper capacity:	65kg (500lbs)
Tipping height:	1300mm (51")

The Core-Collector 3001HL is a pedestrian machine which collects cores and debris into a hopper. It then lifts to a height that can tip into a trailer or utility vehicle. At the front of the machine are windrow boards which allow the machine to move the cores into line. The line is then presented to a stainless steel blade which scoops the cores up, before a conveyor transfers them to the hopper.



The high tip facility enables the core-collector debris to be tipped easily into a prime mover.



The windrow makes light work of aligning the cores.

High productivity means that high volumes can be collected quickly.



SCARIFICATION, MOWING SWEEPING & COLLECTION **VERTI RAKE**

Model Verti-Rake	Pro 200	Pro 300	Pro 450H	Pro 600H
Weight	220kg (485lbs)	317kg (699lbs)	550kg (1213lbs)	610kg (1345lbs)
Tractor required	10hp	20hp	25hp	40hp
Number of rakes / Foldable	168 / no	240 / no	360 / hydraulically	480 / hydraulically

Optional items for Pro 200 only Brushkit / Towed version (mechanically) including drawbar

The Verti-Rake decompacts the turf surface using thin spring-loaded and flexible tines.

The Verti-Rake tines scratch between the turfblades and loosen the thatch. The tines are integrated in a special

protection device that will prevent the loss of tines during operation. Oxygen and nutrients can be more easily introduced into the surface area resulting in a healthier playing field. The Verti-Rake can also be used to create a seed bed before overseeding.

Verti-Rake



Verti-Rake Pro 450H unfolded



Verti-Rake Pro 450H folded



Model Pro 200





BRUSHING

Brushing is a very straightforward but nonetheless important task for any turf care professional. It can stand up the leaf of the grass plant to allow a far superior quality of cut, it can rid the surface of excess moisture and dew build up which keeps good airflow throughout the canopy, and of course plays a big part of any successful top dressing programme.

The Speed brush is a towable grooming machine designed to work on both natural and synthetic surfaces. Its two brushes rotate in the opposite direction of travel,

effectively brushing sand into the aeration holes or redistributing infill into an artificial playing surface.

The Speed-Brush will also successfully de-compact and restore fibres in synthetic fields that have been packed down with time. The Speed-Brush is an excellent tool for lifting any knap or lateral growth on a golf green providing a cleaner cut that will result in a superior putting surface. The Speed-Brush is a simple device that can be towed with most prime movers and has quick and easy adjustments.



BRUSHING VERTI-COMB & DEW BRUSH

Model	Verti-Comb 1800	Verti-Comb 4000	Dew Brush	Dew Brush manual
Working width	1.8m (71")	4.0m (157")	2.0m (79")	2.12m (83")
Weight	121kg (267lbs)	239kg (527lbs)	58kg (128lbs)	18kg (40lbs)
Tractor required	18hp+200kg	25hp+450kg lift cap.	18hp+100kg lift cap.	—

A variety of brushes are on offer for spreading material, or for combing the grass blades.

Optional items Verti-Comb: Magnetic kit / Steel pins section front + rear / Drawbar + transport wheel kit (lift: mechanical or hydraulic or electrical)

Verti-Comb



The Verti-Comb is designed for brushing and decompacting large areas of turf quickly and efficiently. Foldable side wings can be added to the standard Verti-Comb 1800 converting it into the model 4000 (4.0m working width).

*The Verti-Comb 4000 is foldable resulting in a total width of 2.22m in transport position. *=optional items*

Dew Brush



The Dew Brush is ideal for dew dispersal, and striping for improved presentation. Brushing away the dew dries the turf, reducing the risk of disease.



When folded, the Dew-Brush has a working width of 2.15m.

Also available as a manual Dew Brush weighs 18kg (40lbs) and is ideal to remove the dew from grass blades and to pull them up vertically.

BRUSHING SPEED BRUSH

Model	Speed-Brush	Verti-Brush	Verti-Broom 185	Verti-Broom 240	Verti-Broom WB
Working width	1.40m (55.1")	1.5m (59")	1.85m (73")	2.4m (94")	1.0m (39.5")
Weight	181kg (398lbs)	128kg (282lbs)	60kg (132lbs)	80kg (176lbs)	38kg (83lbs)
Tractor required	Any vehicle with 12 volt + electric connection	13hp with double acting valve + 10ltr per min. at 70bar	10hp	10hp	—



The Speed-Brush is a towable grooming machine containing two round brushes which rotate opposite

of the direction of travel. Thus sand and infill is effectively brushed into the turf surface, excessive infill is

distributed over lower areas.



Typical results after using the Speed brush.

BRUSHING VERTI-BROOM, VERTI-BRUSH & DRAGMATS

Verti-Brush



The Verti-Brush levels and distributes topdressing material with powerful hydraulic brushes. The 5 counter-rotating brushes easily reach to the base of the turf to loosen infill and evenly redistribute, this can be applied to mix and level a new application. The durable poly brushes can be accurately set to the desired depth to achieve a light surface brush-in or aggressively mix and loosen the deepest infill.

For brushing and striping of turf, nothing beats the proven Verti-Broom (models 185+240) The highly effective triangular arrangement of the brushes will straighten and groom each grass blade. The soft, long wearing brushes quickly and efficiently brush surface infill to an even and level finish.

Verti-Broom



The hand pulled Verti-Broom WB weighs 36kg and has a working width of 100cm.

Dragmat

90x120cm	Steel	10kg (22lbs)
120x180cm	Steel	18kg (40lbs)
180x240cm	Steel	35kg (77lbs)
240x240cm	Steel	47kg (103lbs)
150x100cm	Rubber	18kg (39lbs)

Stainless Steel dragmats are used to evenly distribute topdressing material.

The Rubber Dragmat is ideal to work-in sand and rubber infill. It can also be manually pulled, or towed behind a vehicle.



Steel Dragmat



Rubber Dragmat





RENOVATION

The demands of modern day sport played on natural turf and the resultant impact this has on timescales and workload of turf professionals often calls for complete surface renovation or even renewal.

This allows for surfaces with poor coverage to be stripped back, taking out any undesirable grass species and organic matter. This can greatly speed up the recovery and re-establishment time, also giving continuity to hard pressed surfaces.

These often daunting tasks can be made easier using equipment such

as the Redexim Turf Stripper and Sandmaster.

The Turf Stripper can mow, level, de-thatch and renovate sports surfaces. It's rotary action removes debris which is transferred by conveyor to a trailer for removal.

The Sandmaster can de-compact to 25cm and surface drain to depths of 20cm, all in one pass injecting sand as it goes. It can work with both sand or gravel leaving minimal surface disturbance.



RENOVATION TURF-STRIPPER

Model Turf-Stripper	1200	2000	2400
Weight	616kg (1358lbs)	1290kg (2844lbs)	1500kg (3300lbs)
Working width	1.2m (47")	2.0m (79")	2.4m (94")
Working depth	up to 50mm	up to 50mm	up to 50mm
Operational speed	0 – 3km/h	0 – 3km/h	0 – 3km/h
Capacity/hour	500-1000m ² /h	1000-1500m ² /h	1300-1800m ² /h
Tractor required	35hp with 2x double acting hydraulic valves	40-50hp with 2x double acting hydraulic valves	70-85hp with 2x double acting hydraulic valves

Turf-Stripper 2000



Optional items extra fraise blades / verti-cut blades / extra rotor

The Turf-Stripper is a fraise-mower, removing turf, weeds and thatch from a field. A side arm conveyor transfers the debris into a trailer. Optionally a separate rotor containing verti-cut blades can be installed.

Renovation of the turf surface can take place with the Turf-Stripper equipped with fraise blades or verti-cut blades.



The Turf-Stripper can be equipped with fraise blades (right) or verti-cut blades (left).



Turf-Stripper 2000



Turf-Stripper 1200



RENOVATION SANDMASTER



The Vibra-Sandmaster injects sand into the soil, and upgrades the profile.

The Vibra-Sandmaster will effectively decompact and surface drain the soil all in one pass. Mounted in the front of the Vibra Sandmaster is the Verti-Quake® model 2516, which decompacts and slits the turf down to 25cm deep. Vibrating coulter blades open up the slits and inject sand down to between 15-20cm. A rear set of floatation tyres gently firm up the ground leaving a level ready-to-play surface. The Vibra Sandmaster works with gravel, wet or dry sand and shows minimal surface disturbance.

Model	Vibra-Sandmaster 1600
Weight	2642kg (5825lbs)
Working width	1.6m (63")
Working depth	5-20cm (2"-8")
Hopper capacity	1500kg (2420lbs)
Capacity/hour	500-1000m ² /h (5400-10800sq.ft/h)
Tractor requirements	65-90hp with creep gear +30ltrs min. hydraulic oil flow + 2 single acting hydraulic valve.



Sandmaster shown here in transport position.

This cross section shows how the groove is filled with sand up to 15-20cms deep.





Turf-Cutter 610

Cutting width:	610mm (24")
Cutting thickness:	adjustable up to 65mm (2.6")
Overall width:	700mm (27.5")
Weight:	250kg (551lbs)
HP required:	18hp

The Turf Cutter is PTO driven, and thus capable of tackling the largest jobs. The cutting depth is accurately adjustable up to a depth of 65mm (2.6").



Depth is easily adjusted by the turn screw.



ACCESSORIES

Ball Roll Tester + Ball Rebound Tester



This device measures how far the ball rolls, and how high it bounces and gives an indication on what kind of maintenance is needed.

*The Ball Roll values for natural turf would vary between 4 and 10m, natural turf in ideal conditions will give values from 4 to 8m. The lower the value, the slower the pitch.**

*The Vertical Ball Rebound is measured by dropping a ball from 2 meters and measuring the rebound height. Natural turf will give values of between 50 and 100 cm, but an "ideal" natural turf will give values of between 60 and 85 cm.**

**from FIFA Quality Concept for Football Turf.*

Penetrometer



The Penetrometer is the perfect scientific instrument for measuring compaction levels in the soil at all depths down to 600mm (24"). High quality stainless steel and aluminium alloy for durability and accuracy. Hydraulic action gives a steady and consistent read out in all conditions.

White Line Marker



This robust white line marker evenly distributes paint via the three-wheeled system to deliver an excellent finish.

Model Snow-Blade 272

Working width	2720mm (107")
Weight	182kg(401lbs)
Tractor required	25hp min. with front 3-point linkage

Standard Item A-frame Cat.1 included

The Snow-Blade 272 is the ideal snow remover for all hard surfaces, fitting relatively small tractors. The blade is entirely galvanized, so that it will not corrode. The working height is accurately adjusted with the two spindles.





Rocket Tines

Rocket tines for the 76 series are used if a large amount of sand needs to be introduced into the topsoil. After topdressing has been spread, these thick tines "push" the sand into the soil. Then the soil is decompacted by using long, \varnothing 24mm solid tines, with "kick" applied to the tines.



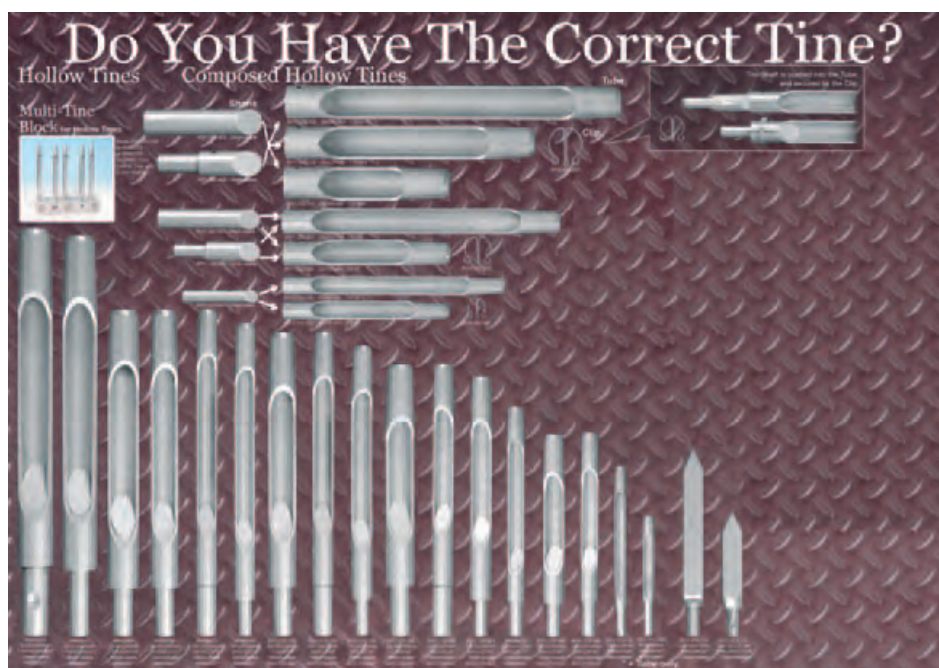
Multi Tine Head

These \varnothing 5mm tines are well suited for over-seeding or light summer aeration, making the most of irrigation.



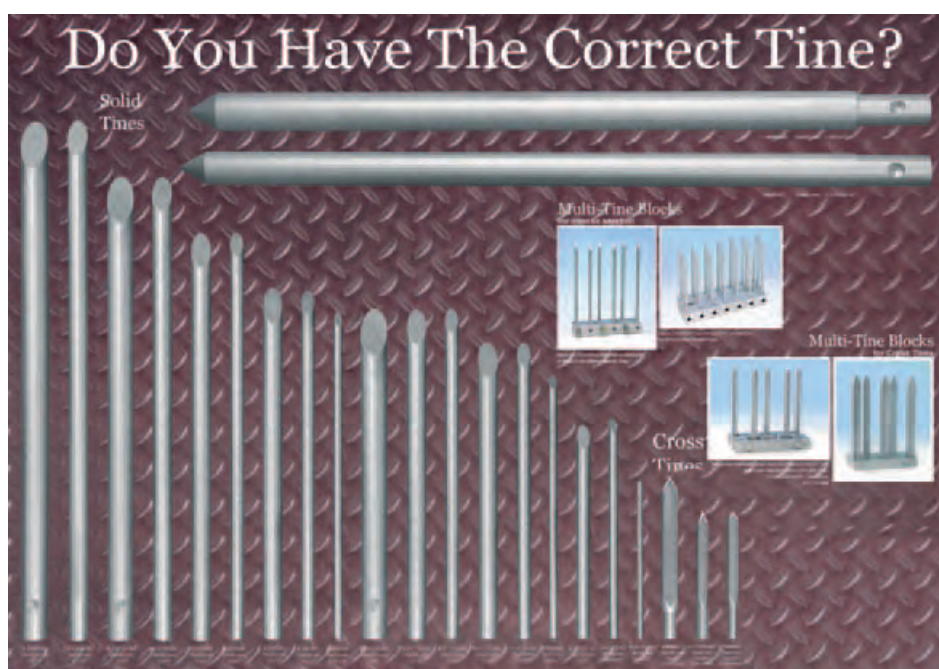
Needle Tine Head

\varnothing 8mm needle tines, also known as pencil tines, can be one of the least-disruptive cultural practices used on greens.



To keep your machine in original working order it is imperative to only fit original manufacturers' parts, including tines. Our parts department stocks 1000's of parts that are just a phone call away. As the owner of a Charterhouse supplied machine, you'll appreciate the quality of the build, but even the best breakdown now and again. When this happens you'll want to get the machine up and running again as quickly as possible, and be sure the replacement part will do as good a

job as the original. Then there's those wearing parts, like tines, that need to match the specification of those that were delivered with the machine. Our genuine spare and replacement parts are manufactured to the highest specifications, which are well in advance of any imitations. Redexim tines, for example, are made from high grade Chromium Molybdenum alloy. The high productivity of our machines, with little downtime, is assured with genuine parts.



SYNTHETIC TURF MAINTENANCE

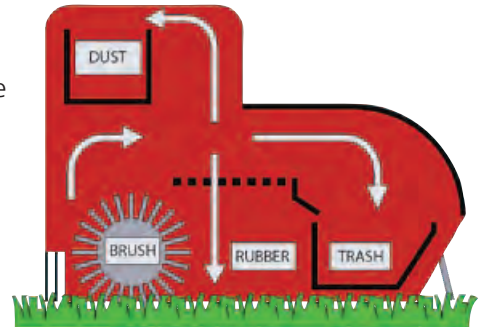
In recent years Redexim has lead the way in the development and manufacture of Artificial Turf Maintenance equipment, from simple brushing, to the removal of infill material or collection of debris from the surface.

The advantages of synthetic surfaces are well documented, useable in most weathers, playable 12 months of the year, but all too often the maintenance of these surfaces is over looked because of the belief that they are maintenance free. This misconception can often lead to problems in later life of the surface. A properly maintained surface can offer

many years of trouble free use.

It is vital that fibres are vertical as much as possible so as to avoid unnecessary wear on the surface, and in turn shortening the life of the investment. Also key is the removal of surface debris which if allowed to rot and make its way down to the bottom of the pile can have an adverse effect on playing characteristics and again will reduce life expectancy of the surface.

Redexim have a wide range of equipment for the maintenance of these surfaces whether it be sand filled, sand dressed or 3G.



Eliminator



Verti-Top Vac



Rink 1010 Infill dresser



Verti-Broom



X-treme Clean



Verti-Rake



Gathered debris from collection bag of a Verti-Top Vac

ENDORSEMENTS

Grounds maintenance Contractor Peter Goddard has a substantial workload looking after school playing fields and local authority sports pitches across the Shepway district of Kent – stretching from Dover and Ashford to Romney Marsh, including no less than 18 different schools.

"Our work is mainly routine maintenance but I am also aiming to educate my clients on the benefits of renovation work using my Verti-Drain®" he explains. "School pitches work hard year round, and some are also used in the holidays for caravan rallies and car boot sales, so compaction can be a serious issue."

Peter purchased his Verti-Drain® 7215 in 2009 from Lister Wilder, looking to expand his renovation service, and he admits that while he has achieved excellent results, it can be hard to convince hard-pressed school boards or local authority committees to invest in their pitches. "Schools and councils have limited budgets, and they can take some persuading to try a new operation. But where the Verti-Drain® has been used regularly, we have achieved excellent results."

One example is Folkestone Rugby Club, whose pitches were constructed relatively recently but have been troubled by compaction. "The four pitches take a couple of days to Verti-Drain® thoroughly, so the club has had to invest in my time, but real progress has been made in alleviating compaction and promoting growth," Peter explains. At 1.5m wide, the Verti-Drain® 7215 is the ideal size for a contractor such as Peter – it is compact enough to transport between jobs but offers plenty of output – and is well matched with his 40hp Kubota tractor.

It has also proved highly versatile, working with half inch and $\frac{3}{4}$ inch tines and at a range of depths. "The half inch tines are ideal for renovating cricket squares at the end of the season, and at the other end of the scale on rugby pitches and cricket outfields I can work with $\frac{3}{4}$ inch tines to 10 inches deep," he comments. "You need to know your ground however – in this area the soil can be very thin and it is easy to reach the sand underneath. Timing is also crucial as the clay soils can dry out very quickly."

Peter adds that the Verti-Drain® is very easy to set up and adjust between jobs and for different applications. "Build

quality was a big selling point and the machine has not disappointed; we have also seen the value of fitting genuine replacement tines when they are needed."

The Verti-Drain® is seen as a long term investment by Peter, working about 100 hours a year which he hopes will increase as customers see the benefits of the decompaction that it can offer. "It is a two year project to improve a pitch, but then the results are clear to see, so even in these difficult economic times it is a very worthwhile operation for schools and sports clubs," he comments.

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**Grounds maintenance
Contractor
Peter Goddard**

Redexim has a policy of continuous improvement for all its products to meet the needs of customers. Specifications and illustrations in this catalogue may therefore differ from equipment supplied.

Charterhouse TURF MACHINERY

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