

VERTI-DRAIN® CONVENTIONAL SERIES

aeration

These Verti-Drains are the choice of championship courses and sportfields around the world. With 250mm (10") or 300mm (12") working depth the units only require a compact tractor.

| Model Verti-Drain | 7212 | 7215 | 7316 | 7416 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Weight | 484kg (1067lbs) | 582kg (1283lbs) | 697kg (1537lbs) | 900kg (1984lbs) |
| Working width | 1.2m (47") | 1.56m (61") | 1.6m (63") | 1.6m (63") |
| Working depth max. | variable to 250mm (10") max | variable to 250mm (10") max | variable to 300mm (12") max | up to 350mm (14") |
| Capacity at 65mm (2½") forward hole pattern | 1200m ² /h (12960sq.ft/h) | 1870m ² /h (20196sq.ft/h) | 1400m ² /h (15120sq.ft/h) | 1360m ² /h (14688sq.ft/h) |
| Capacity at 165mm (6½") forward hole pattern | 3000m ² /h (32400sq.ft/h) | 4680m ² /h (50544sq.ft/h) | 3640m ² /h (39312sq.ft/h) | 4200m ² /h (45360sq.ft/h) |
| Tractor required | 17hp, lift cap 568kg (1250lbs) | 23hp, lift cap 700kg (1540lbs) | 27hp, lift cap 825kg (1815lbs) | 35hp, lift cap 1050kg (2310lbs) |

Standard items: Solid tines Ø12x250mm (1/2x10"), front & rear rollers with scrapers, PTO with slip clutch, storage stand, 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

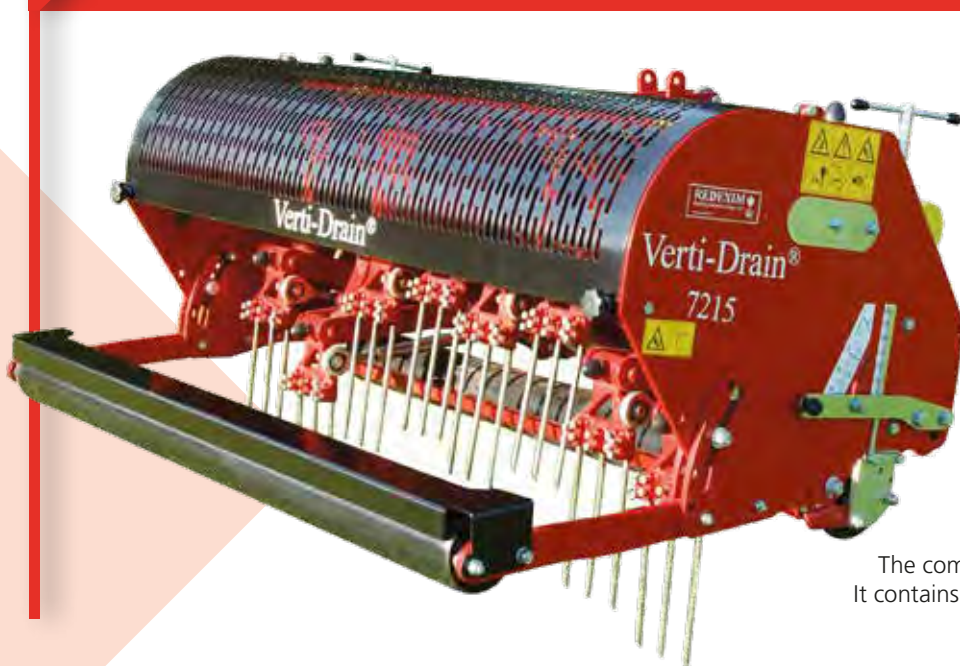
Verti-Drain® 7212



The popular Verti-Drain 7212 is ideally suited for greens and other sports turf surfaces where limited access or tractor horsepower is available.



Verti-Drain® 7215



The compact 7215 Verti-Drain fits tractors of 23hp. It contains a multiple amount of arms and tineholders (8) ensuring increased stability.

Verti-Drain® 7316

Ø 5mm (1/16") mini needle tines on multi tine adapters.



Verti-Drain® 7416

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").



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. The treatments help provide passageways so water can move to the root zone, which lowers 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.

These high speed Verti-Drains are fast aerators, running at speeds of up to 4.3km/h (2.75mph). The model 1513 can be connected to the Redexim Carrier for a self-propelled option (see page 6).

| Model Verti-Drain | 1513 | 1517 | 7117 Mustang | 2519 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Working width | 1.3m (51") | 1.76m (69") | 1.7m (67") | 1.95 (76.7") |
| Weight | 433kg (955lbs) | 529kg (1166lbs) | 623kg (1373lbs) | 900kg (1985lbs) |
| Working depth max. | 150mm (6") | 150mm (6") | 150mm (6") | 250mm (10") |
| Capacity at 55mm (2½") forward hole pattern | 2388m ² /h (25703sq.ft/h) | 3136m ² /h (33759sq.ft/h) | 3400m ² /h (36720sq.ft/h) | 3443m ² /h (37055sq.ft/h) |
| Capacity at 125mm (5") forward hole pattern | 5427m ² /h (58416sq.ft/h) | 7128m ² /h (76725sq.ft/h) | 7300m ² /h (78840sq.ft/h) | |
| Capacity at 165mm (6½") | - | - | - | 8739m ² /h (94036sq.ft/h) |
| Tractor required | 20hp, lift cap 500kg (1100lbs) | 28hp, lift cap 680kg (1496lbs) | 25hp, lift cap 700kg (1540lbs) | 60hp, lift cap 920kg (2029lbs) |

Standard items: Solid tines 1 set, front + rear rollers with scrapers (1513, 1517 rear roller optional)
PTO with slip clutch, storage stand, toolbox with tools, 3-speed gearbox (not 1513, 1517, 2519).

Optional items: Solid tines from Ø5x125mm (1/5") to Ø12 (1/2"), Hollow tines from Ø10 (3/8") to Ø18 (3/4").
Turf hold down fingers / Windrow kit / Rear roller (Rear roller standard for 7117, 2519).

Verti-Drain® 1513



Topdressing prior to Shatter Tining

After the turf is topdressed with sand, the Verti-Drain works the sand into the soil with solid tines. Set at an ideal shatter angle of 5-10 degrees and a close hole spacing, the tines then shatter the sand backwards through the soil profile thus thoroughly mixing it into the soil structure.



The new 1513 can be connected to a tractor as well as to the Redexim Carrier (see page 6).

Verti-Drain® 1517



The fast Verti-Drain 1517 has a working width of 1.7m, and penetrates up to 150mm deep.



Verti-Drain® 7117 Mustang



The Verti-Drain 7117 contains a 3-speed gearbox and has a working width of 1.7m.



Verti-Drain® 2519 **NEW**

The new 2519 model incorporates the very latest of Redexim's® precision design and engineering to bring a high-speed machine into the range. Together with a new draw-rod system, it features an easy to adjust heave lever. With practicality and finesse at the heart of the machine, the 2519 also features new livery and styling. As standard, the Verti-Drain® 2519 comes with 12mm solid tines but it can accept a range of solid tine options up to 19mm, and hollow tines for coring. This versatility, combined with a variable working depth of up to 250mm, makes it suitable for an array of end-users, across the full spectrum of the maintenance calendar.



Simple depth and heave adjustment.

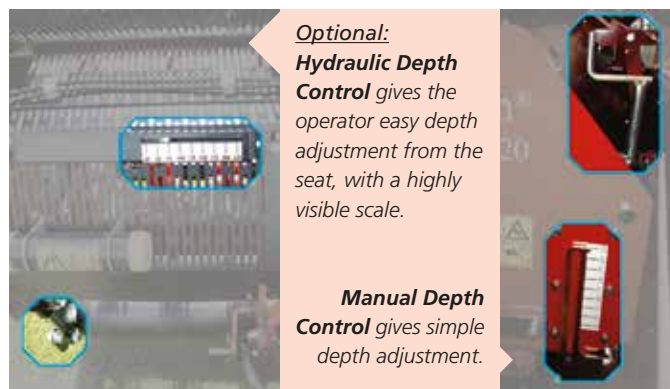


The new Verti-Drain Concorde is able to work at a high speed in hard soils, and can take solid tines with a diameter of up to 24mm(1").

| Model Verti-Drain Concorde | 2216 | 2220 |
|--|--------------------------------------|--------------------------------------|
| Working width | 1.6m (63") | 2.08m (82") |
| Weight | 926kg (2041lbs) | 1142kg (2512lbs) |
| Working depth max. | up to 225mm (9") | up to 225mm (9") |
| Capacity at 65mm (2½") forward hole pattern | 2796m ² /h (30196sq.ft/h) | 3728m ² /h (40262sq.ft/h) |
| Capacity at 130mm (5½") forward hole pattern | 5592m ² /h (60394sq.ft/h) | 7456m ² /h (80525sq.ft/h) |
| Tractor required | 45hp, lift cap 1050kg (2310lbs) | 50hp, lift cap 1300kg (2860lbs) |

Standard items: Solid tines Ø18x225mm. Adapters for tines with Ø24mm to Ø18mm. Front + rear 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 1/4" x 9"), Hydraulic quick depth adjustment system, Turf holddown fingers, Windrow kit, Adapters for different tine diameters.

Verti-Drain® 2216 Concorde



Optional: Hydraulic Depth Control gives the operator easy depth adjustment from the seat, with a highly visible scale.

Manual Depth Control gives simple depth adjustment.

This tough model is designed for undulating areas.

Verti-Drain® 2220 Concorde



Anti-vibration system



An optional anti-vibration system, containing a strong spring, can be added for stony conditions.

For large, compacted areas this Concorde with a working width of 2.08m is ideal.

The heavy series of Verti-Drains are designed to aerate soils up to a full 400mm (16") deep, with four different models available and a three-speed gearbox that will match any tractor.

| Model Verti-Drain | 7516 | 7521 | 7526 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Working width | 1.6m (63") | 2.1m (83") | 2.6m (102") |
| Weight | 1161kg (2560lbs) | 1399kg (3084lbs) | 1643kg (3622lbs) |
| Working depth max. | up to 400mm (16") | up to 400mm (16") | up to 400mm (16") |
| Capacity at 65mm (2½") forward hole pattern | 1120m ² /h (12096sq.ft/h) | 1470m ² /h (15876sq.ft/h) | 1820m ² /h (19656sq.ft/h) |
| Capacity at 195mm (7⅔") forward hole pattern | 3360m ² /h (36288sq.ft/h) | 4410m ² /h (47628sq.ft/h) | 5460m ² /h (58968sq.ft/h) |
| Tractor required | 45hp, lift cap 1350kg (2970lbs) | 55hp, lift cap 1650kg (3630lbs) | 65hp, lift cap 1900kg (4180lbs) |

Standard items: Solid tines Ø18x300mm (2/4"x12") for 7416 and 7521 / Solid tines Ø24x400mm (1"x16") for 7521, 7526; Ø24x350mm (1" x 14") for 7416
Front & Rear roller / Toolbox with tools / PTO with slip clutch / Storage stand integrated in machine / 3-speed gearbox

Optional items: Solid tines from Ø5x125mm (3/16"x5") to Ø24x400mm (1"x16"), Hollow tines from Ø10x125mm (3/8"x5") to Ø32x300mm (1 1/4"x 12"), Turf holddown fingers/ Windrow kit/ Adapters for different tine diameters.

Verti-Drain® 7516



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

Less tractor horsepower is needed when the bogy wheel system is added.



Verti-Drain® 7521



This unit with a 2.1m working width is widely used by contractors and by golf clubs on fairways.



Verti-Drain® 7526



The Verti-Drain 7526 comes into its own in large open spaces including fairways, race tracks and large sportsfields.

The heavy 76-series weighs considerably more than the 75-series, containing a heavier gearbox, PTO and rear roller support that are the best choice when soils are really hard.

| Model Verti-Drain | 7621 | 7626 |
|---|--------------------------------------|--------------------------------------|
| Working width | 2.1m (83") | 2.6m (102") |
| Weight | 1744kg (3845lbs) | 1994kg (4396lbs) |
| Working depth max. | 400mm (16") | 400mm (16") |
| Capacity at 65mm (2½") forward hole pattern | 1620m ² /h (17496sq.ft/h) | 2000m ² /h (21600sq.ft/h) |
| Capacity at 195mm (8") forward hole pattern | 4850m ² /h (52380sq.ft/h) | 6010m ² /h (64908sq.ft/h) |
| Tractor required | 55hp, lift cap 2000kg (4400lbs) | 65hp, lift cap 2300kg (5060lbs) |

Standard items: Solid tines Ø24x400mm (1"x16") / Front & Rear roller / 3-speed 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 (1/4"-1"), Hollow tines: from Ø10x125mm to Ø32x300mm / Bogy wheel kit

Verti-Drain® 7621



For the 76 Verti-Drain Series the tine depth adjustments are made comfortably from the tractor seat via the hydraulic controls.

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

Verti-Drain® 7626



For easy transport a bogy wheel kit can be added.

The 7626 is the largest and heaviest model yet in the Verti-Drain family.

Wheel kit - H-Models



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

Core collector



The Core Collector uses a flexible rubber flap to gather most of the cores. Behind there is a row of ground following aluminium fingers to ensure that all material is collected without the risk of damage to the turf.

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.

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.

Windrow kit



The Windrow kit aligns the cores for easy collection.



Rocket tine:
max. ø 50mm x
345mm length

Rocket tine:
max. ø 60mm x
150mm length

Rocket Tines

Rocket tines are being applied if a large amount of sand needs to be brought into the topsoil. After the 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.



Application of the Rocket tines (top) followed by ø24mm solid tines (bottom) which mix the sand through the topsoil.



Due to the large forces transferred on the aerator heads, usage of the Rocket tines is only meant for the heaviest Verti-Drain models 7621 and 7626

Photo courtesy: Field Stinger 11 april 2013