

# Machines for Synthetic Turf



# Verti-Art® Range of Synthetic Turf Maintenance Machines

A common misconception is that synthetic turf requires little maintenance, but regular attention is vital to ensure optimum playing performance and durability. This can be achieved with the Verti-Art range of synthetic turf care equipment, manufactured by Redexim-Charterhouse.



contents	page
Introduction	2
Decompaction	3
Brushing / Spraying	4-5
Cleaning	6-8
Eliminating Static Electricity	8
Infilling/Refilling	9-11
Regeneration + Testing	12



From: *Turf Business*

## Bladerunner, a clean-sweep for the Hammers

We look at one of the latest sets of synthetic surface maintenance equipment in use at Premiership club West Ham. For Dougie, the Verti-Top proved to be the just item of kit he was looking for. "Yes, this was the piece of kit I had been waiting for", he says. "The Verti-Top is specifically designed to remove debris, leaves, bottle tops; even human hair – and it does just that, really cleaning the whole surface. It is amazing what the machine picks up and the quantities too. The hopper gets filled with surprising amounts of hair and even stones from the indoor pitches. It will also tackle chewing gum, one of the most unpleasant things we have to deal with, very well."

A Verti-Groom is the vital extra component of the package deployed by Dougie and his team. He has found using this tool ahead of the Verti-Top helps to de-compact, level and soften the surface, bringing debris to the top of the infill in the process. A previous pass with Verti-Top is not

always necessary, but working the two together can really help bring a heavily played and contaminated surface back into shape.

"The two bits of kit complement each other and both are straightforward and simple bits of kit. There is nothing over complicated and that means there is very little that can go wrong. That is what we want – simple kit that does a really good job."

Even when the Verti-Groom is used first and followed with the Verti-Top, Dougie reckons he can finish a pitch in around an hour and a half.

"After the pitches have been cleaned, they really look great. Of arguably far greater importance, the coach and players tell me the surfaces play better and that they are softer under foot. Because we are covering these pitches in less time, we are now better able to stick to a regular leaning regime. I reckon this should help extend the life of the artificial pitches and I'd recommend this equipment to anyone charged with maintaining an artificial pitch."



West Ham groundsman Dougie Robertson uses the Verti-Top on the club's indoor and outside synthetic playing surfaces. He is pleased with the machine's ability to pick up debris, finding it effective, fast and easy to operate.



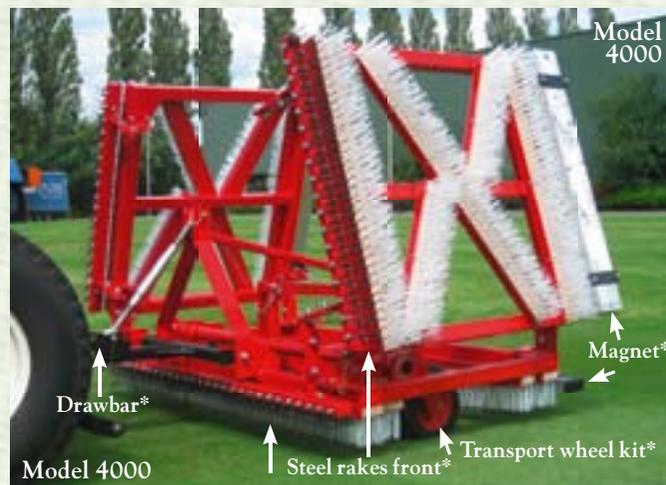
# Brushing

Infill is a “mobile” material, so it will inevitable move around whilst the surface is used. The movement of the player and the characteristics of many of the sports played on these surfaces means the infill will be moved to the outside of playing area. Brushing with brooms is required to evenly re distribute the infill back into the playing surface.

Model	Verti-Comb 1800	Verti-Comb 4000	Precision Brush	Straight Brush	Verti-Brush	Verti-Broom 185	Verti-Broom 240	Verti-Broom Walk behind
Working width	1.8m(71")	4.0m(157")	2.0m(79")	2.0m(79")	1.7m(67")	1.85m(73")	2.4m(94")	1.0m(39")
Weight	104kg(229lbs)	220kg(484lbs)	150kg(330lbs)	17kg(37lbs)	170kg(374lbs)	50kg(110lbs)	75kg(165lbs)	18kg(401lbs)
Tractor required	18hp+200kg lift cap.	25hp+450kg lift cap.	18hp+200kg lift cap.	12hp+30kg lift cap.	13hp with double acting valve + 10ltr min. at 70bar	10hp	10hp	-
Optional items	Verti-Comb: Magnetic kit / Steel pins section front + rear / Drawbar + transport wheel kit (lift: mechanical or hydraulic or electrical) / Hydraulic lift kit Verti-Broom: two transport wheels							

## 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 model converting it into the model 4000 (4.0m working width).



Several options can be added, these include steel front or rear pins for decompaction, a magnetic strip for picking up steel debris, and a transport wheel kit with drawbar, which makes it possible to pull the Verti-Comb with any vehicle.

The Verti-Comb 4000 is foldable resulting in a total width of 1.22m in transport position.  
\* = optional items

## Precision Brush

The Precision Brush can be equipped with brushes containing different types of bristles. The height can be accurately adjusted.



## Verti-Brush



The 5 counter rotating brushes turn at high speed.



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



Optional transport wheels can be added



Model 240 has a large working width of 2.4m



## Verti-Broom

For brushing and striping of turf, nothing beats the proven Verti-Broom. 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 WB



The hand pulled Verti-Broom WB weighs 18kg and has a working width of 100cm.

## Spraying

Algae growth and moss can cause accidents and can be removed by using liquid (organic) weed killer.

### Verti-Spray

The trailed Verti-Spray is an excellent tool for any turf spray application. Easily coupled to most tow vehicles, the 12 volt sprayer quickly disperses up to 300 liter disinfectants and other liquids such as static reducing mixes, or plain water to cool the playing surface.

### Technical specifications

Tank size:	300 liter
Hitch Type:	adjustable chevis
Weight empty:	75kg
Required tow vehicle:	400kg tow capacity
Standard items:	boom sprayer swath 6m + trigger spraygun 5m hose.



# Cleaning

The Infill material used in synthetic turf must be kept level for a consistent playing field and the upper carpet fibres have to remain free of litter and detritus to avoid the accumulation of dirt and bacteria, as well as harmful materials such as glass or stray studs.

Model	Verti-Clean pulled	Verti-Clean PTO driven	Verti-Top Vac1200	Verti-Top Vac1800	Verti-Top Vac Tow behind	Verti-Top WB	Verti-Air 120	Verti-Air 160	X-treme Clean 1200	X-treme Clean 1800
Working width	1.5m (59")	1.5m (59")	1.2m (47")	1.8m (71")	1.45m (57")	84cm (33")	1.2m (47")	1.6m (63")	Width: 1.2m (47")	Width: 1.8m (71")
Weight	109kg (240lbs)	115kg (250lbs)	320kg (705lbs)	450kg (997lbs)	300kg (660lbs)	150kg (330lbs)	355kg (781lbs)	473kg (1041lbs)	Weight: 225kg	Weight: 300kg
Capacity hopper	70ltr	70ltr	64ltr	96ltr	70ltr	30ltr	100ltr	100ltr	Number of brush: 6	Number of brush: 9
Tractor required	12hp + 150kg lift cap.	12hp + 150kg lift cap.	20hp + 360kg lift cap.	25hp + 500kg lift cap.	no; is pulled unit with 6½ hp engine		25hp + 500kg lift cap.	35hp + 670kg lift cap.	Tract. Reco. 18hp	Tract. Reco. 25hp
Dimensions	171x108x70cm	171x108x70cm	158x140x90cm	158x201x90cm	140x170x100cm		150x140x100	190x140x100cm	Number of rotors 2	Number of rotors 3
Optional items	for Verti-Clean: Rear steel pin section for Verti-Clean+Verti-Top: Sieve mesh size:3,2x3,2mm, 4x4mm,5,5x5,5mm,6x6mm Magnet for collecting ferrous materials for Verti-Top 1500: vacuum cleaning mechanism									

## Verti-Clean

The Verti-Clean picks up surface debris with a rotating brush, which throws it on to a vibrating sieve. The sieve filters infill material back on to the playing surface, while retaining the debris. Both the rotating brush and the vibrating sieve are powered by the movement of the machine.



The PTO driven version of the Verti-Clean makes it easier to remove larger amounts of dirt, debris and detritus as the rotary speed of the brush can be varied.



The lightweight hopper with debris can easily be removed for emptying

## Verti-Top Vac 1200 + 1800

The Verti-Top's rotary brush ingeniously removes surface litter and the top infill layer, then filters out debris by using a vibrating mechanism. The cleaned infill is then redistributed evenly over the surface, and a rear brush ensures a smooth finish. During the process a powerful vacuum system uses suction to lift the fine particles such as dust, hair and broken fibres into a filter bag.

