



Perfecting  
Play™



KORO® FTM®  
SYSTEM

**KORO<sup>®</sup> FTM**





## KORO® FTM® SYSTEM

**Campey Turf Care Systems** been at the fore in developing the **KORO® FIELDTOPMAKER®** into a system that can be used on a wide range of surfaces for a number of different renovation practices. “**Koro-ing**” is now an established renovation practice worldwide!

More information at [campeyturfcare.com](http://campeyturfcare.com) or [korofieldtopmaker.com](http://korofieldtopmaker.com)



**Campey**  
TURF CARE SYSTEMS  
QUALITY GROUND CARE EQUIPMENT



The conveyor and elevator belts on the latest FTM2000 and FTM2500 models are now 40% wider, increasing capacity and productivity dramatically.



# The Koro Story

The brainchild of Ko Rodenburg, the Koro range of machinery came to market in 1997, with the KORO® FieldTopMaker® (FTM®) as the key machine in a renovation programme designed to improve pitch quality and extend playing hours on natural turf soccer pitches. The acquisition of the manufacturing rights by Imants BV in 2009, and the fine-tuning of the “Fraize Mowing” renovation practices, has led to the design of a new range of rotors by Campey Turf Care Systems and Imants BV.

Campey Turf Care Systems has been at the fore in developing the KORO® FTM® into a system that can be used on a wide range of surfaces for a number of different renovation practices. “Koro-ing” is now an established renovation practice worldwide!

## Conventional Scarifying & Verticutting

The KORO® FieldTopMaker® when fitted with the Scarification Rotor, can be used for conventional scarification/verticutting, conveying the excess thatch into an adjacent trailer/truck. The

4 different models  
now available

A model to suit any  
size tractor 35hp+

extra collection capacity is far more efficient than an integrated hopper and greatly increases productivity, especially if two or more trailers can be utilised.

The Scarification Rotor can be fitted with either 3mm tungsten tipped blades (for all models of FTM) for fairways and sports fields, while the rotor for the FTM1200 and FTM1600 can be fitted with 1.5mm blades for finer turf. Integrated adjustable brush strips are fitted to improve collection and surface hygiene. A mid-mounted, anti-scalping roller is available for undulating ground.



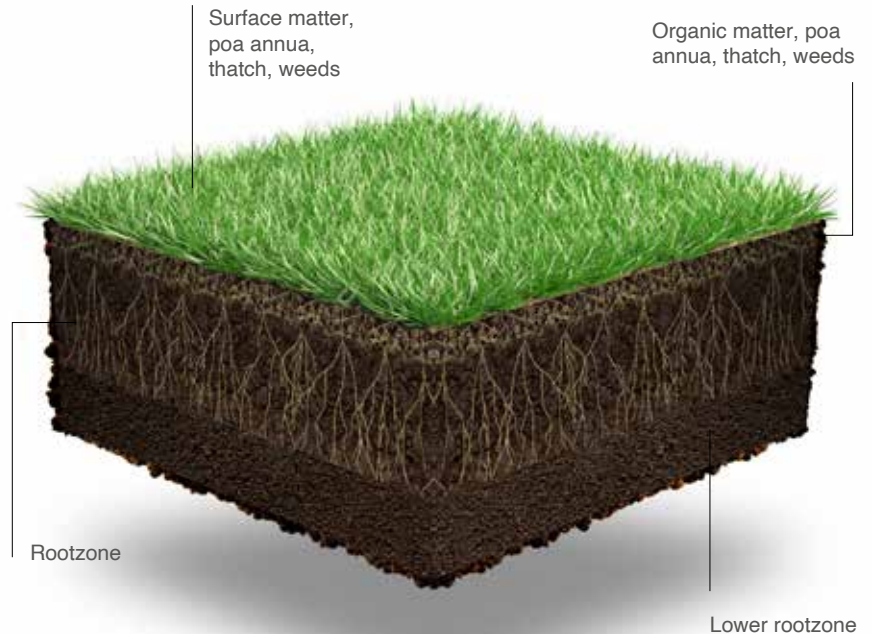
When scarifying large areas like sports fields and golf course fairways with a conventional scarifier/collector, emptying the hopper is often the job that takes the longest time. Using a KORO® FieldTopMaker® with elevator, in conjunction with a larger trailer will minimise the down-time. Using two or more trailers prevents work being interrupted, and allows the scarifying to continue while alternate trailers are being emptied.

# KORO® FTM®

At the cutting edge of sports turf care technology

The KORO® FTM® is a heavy-duty fraise mower, for removing unwanted surface matter such as poa annua, thatch, weeds or the entire surface to a depth of 50mm. A sidearm conveyor removes debris directly into a trailer, leaving a level even surface. The FTM® is designed for maximum efficiency for sports turf applications like football & rugby pitches, turf farms, etc. An easily fitted scarifying rotor allows the FTM® to be used as a heavy-duty scarifier with optional mid-mounted roller for undulating ground.

Once exposed to sunlight by removal of the canopy, re-generation is rapid, often with full recovery in 3 – 4 weeks. Removing the thatch and organic debris minimises water retention at the surface, ensuring that any available water passes directly to the rootzone.





Removing unwanted surface matter such as poa annua, thatch, weeds or the entire surface

# The original and best just got better

# THE REMASTERED

# KORO® FTM RANGE

The indisputable success of the KORO® FIELDTOPMAKER® across all sports surfaces has helped produce healthier turf through greatly improved surface hygiene, and the remastered 1.2m, 1.6m, 2.0m and 2.5m models build on that success.

To make the machines more user-friendly for golf the weight and balance have been analysed, resulting in a lighter, steadier experience. Solid locking pins now offer greater consistency and the overall performance is improved due to the re-designed patented UNIVERSE® rotor and angled cross conveyor.

The new angled cross conveyor has been introduced to move material evenly with perfect belt tracking, while the weight of the machines has been reduced using a removable 100kg that greatly improves the overall weight balance.

This redistribution of weight means a much smaller tractor can be used to run the KORO® FTM®, because the centre of gravity has been shifted towards the tractor making it easier to lift. Even when the weight is removed the machine still has improved balanced against previous models.

Maintaining the new range of KORO® FTM®s has also been enhanced to ensure working reliability. A modular set-up allows the machine to run without belts and the strong state of the art driveline is maintenance free.

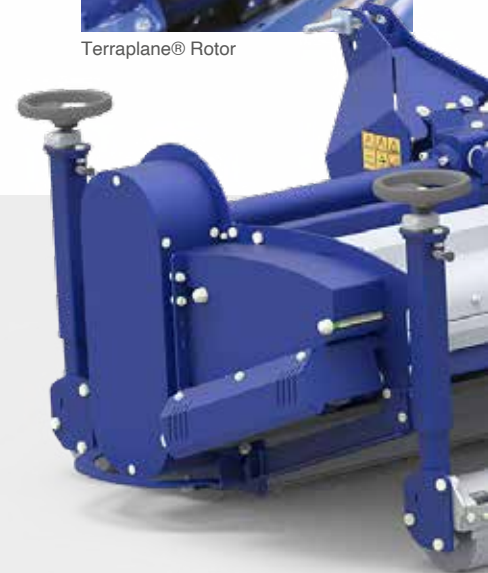
All of the range can facilitate the enhanced patented UNIVERSE® rotor which offers improved clean up and greater surface hygiene. Previous rotors will fit on the 2.0m and 2.5m models but not on the 1.2m or 1.6m.



UNIVERSE® Rotor



Terraplane® Rotor







Specifically designed for all sports turf and golf course maintenance

Solid locking pins for consistency

Improved clean up due to new re-designed UNIVERSE® rotor and angled cross conveyor



Large diameter rollers for stability and super depth control.



Patents are held for the Universe rotor - please visit [www.campeyturf.com/ip](http://www.campeyturf.com/ip) for further details

# UNIVERSE<sup>®</sup> Rotor

Patent No. W02013/027005

Further research and testing on different sports turf and grasses, to see how long the recovery time was in different situations, lead to the development of different thicknesses of UNIVERSE<sup>®</sup> blades. 5mm and 3mm blades were developed for KORO<sup>®</sup> UNIVERSE<sup>®</sup> Finesse mowing, which will deliver a more refined finish, the working depth of the rotors can be set with infinite precision.

All 3 blades can be used on natural turf, on both cool and warm season grasses for KORO<sup>®</sup> UNIVERSE<sup>®</sup> Finesse Mowing, or KORO<sup>®</sup> UNIVERSE<sup>®</sup> Fraze Mowing.

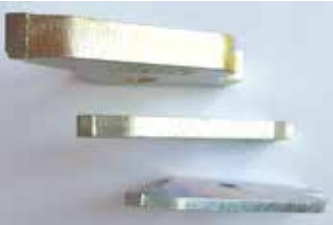
## For Synthetic / Hybrid Surfaces

The UNIVERSE<sup>®</sup> rotor was initially developed for the removal of the organic build up from the surface of the semi-synthetic natural turf pitches that are now common in professional stadiums around the world.

The UNIVERSE<sup>®</sup> rotor (fitted with 10mm blades) achieves excellent surface hygiene without damaging the exposed synthetic/hybrid fibres. In one pass the whole annual renovation process to include dressing with 40/50 ton of sand, fertilising and overseeding could be carried out in one day instead of 4/5 days, with the process known as Koro UNIVERSE<sup>®</sup> Fraize Mowing.

UNIVERSE<sup>®</sup> Fraize Mowing on synthetic/hybrid surfaces allows the Turf Professional to maintain the original quality of the surface.





2012 / 2013 saw the introduction of 2 new rotors for the KORO® FTM; UNIVERSE® and TERRAPLANE®.

The first blades designed for the UNIVERSE® rotor where 10mm.



10mm tungsten tipped blades in 4 spiral UNIVERSE® rotor configuration





KORO FTM







The UNIVERSE® has been used on different sport surfaces including golf, cricket and tennis with amazing results achieved.







Once exposed to sunlight by removal of the canopy, re-generation is rapid, often with full recovery in 3 – 4 weeks





# UNIVERSE<sup>®</sup> Fraize Mowing

Patent No. W02013/027005

Most warm season grasses are prone to the rapid accumulation of thatch in the sward. Conventional verticutting and scarification only removes around 7 – 10% of the surface matter, and unless done on a regular basis cannot keep up with the build-up of thatch.

A radical approach is to remove all the organic build-up in one pass. The unique feature of the UNIVERSE<sup>®</sup> Rotor is that it can be set accurately to leave rhizomes and stolons in place, thus eliminating the need to re-sprig.

Once exposed to sunlight by removal of the canopy, re-generation is rapid, often with full recovery in 3 – 4 weeks. Removing the thatch and organic debris minimises water retention at the surface, ensuring that any available water passes directly to the rootzone.

In transitional zones, UNIVERSE<sup>®</sup> Fraize Mowing is used to speed up the transition from winter grasses to warm season grasses. The UNIVERSE<sup>®</sup> Rotor will take out the cool season grass and any organic build-up, leaving rhizomes and stolons in place. By removing the competition for water and nutrients, and exposing them to light, the transition period is dramatically reduced.



7 days



10 days



# UNIVERSE<sup>®</sup> Finesse Mowing

The 5mm UNIVERSE<sup>®</sup> Finesse blade is a heavy-duty, tungsten-tipped blade, which can be fitted to;

- Every holder - 5cm cut 5mm spacing
- Every blade holder on alternate spirals giving 5mm cut at 15mm spacing
- Alternate blade holder on alternate spirals giving 5mm cut with 35mm spacing

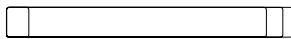
The 3mm UNIVERSE<sup>®</sup> Finesse blade is a tungsten-tipped blade, which can be fitted to;

- Every holder - 3mm cut 7mm spacing
- Every blade holder on alternate spirals giving 3mm cut at 17mm spacing
- Alternate blade holder on alternate spirals giving 3mm cut with 37mm spacing

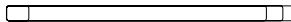
3 blade thicknesses



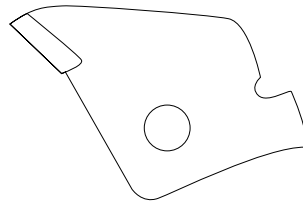
10mm blade



5mm blade



3mm blade



UNIVERSE<sup>®</sup> blade



7 days



14 days



KORO® UNIVERSE® Finesse mowing, which will deliver a more refined finish, the working depth of the rotors can be set with infinite precision.







# Percentage removed with different blades and configurations of the UNIVERSE<sup>®</sup> Rotor

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## 10mm

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- With the 10mm blades on 4 spiral you remove 100% of the surface
- With the 10mm blades on 2 spiral you remove 50% of the surface with 10mm gone 10mm still there

## 5mm

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- With the 5mm blades on 4 spiral you remove 50% of the surface with 5mm gone 5mm still there
- With the 5mm blades on 2 spiral you remove 25% of the surface with 5mm gone and 15mm still there

## 3mm

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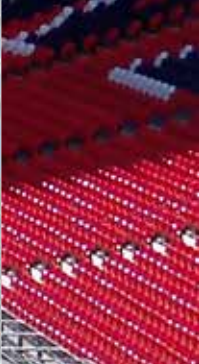
- With the 3mm blades on 4 spiral you remove 30% of the surface with 3mm gone and 7mm still there
  - With the 3mm blades on 2 spiral you remove 15% of the surface with 3mm gone and 17mm still there
- 



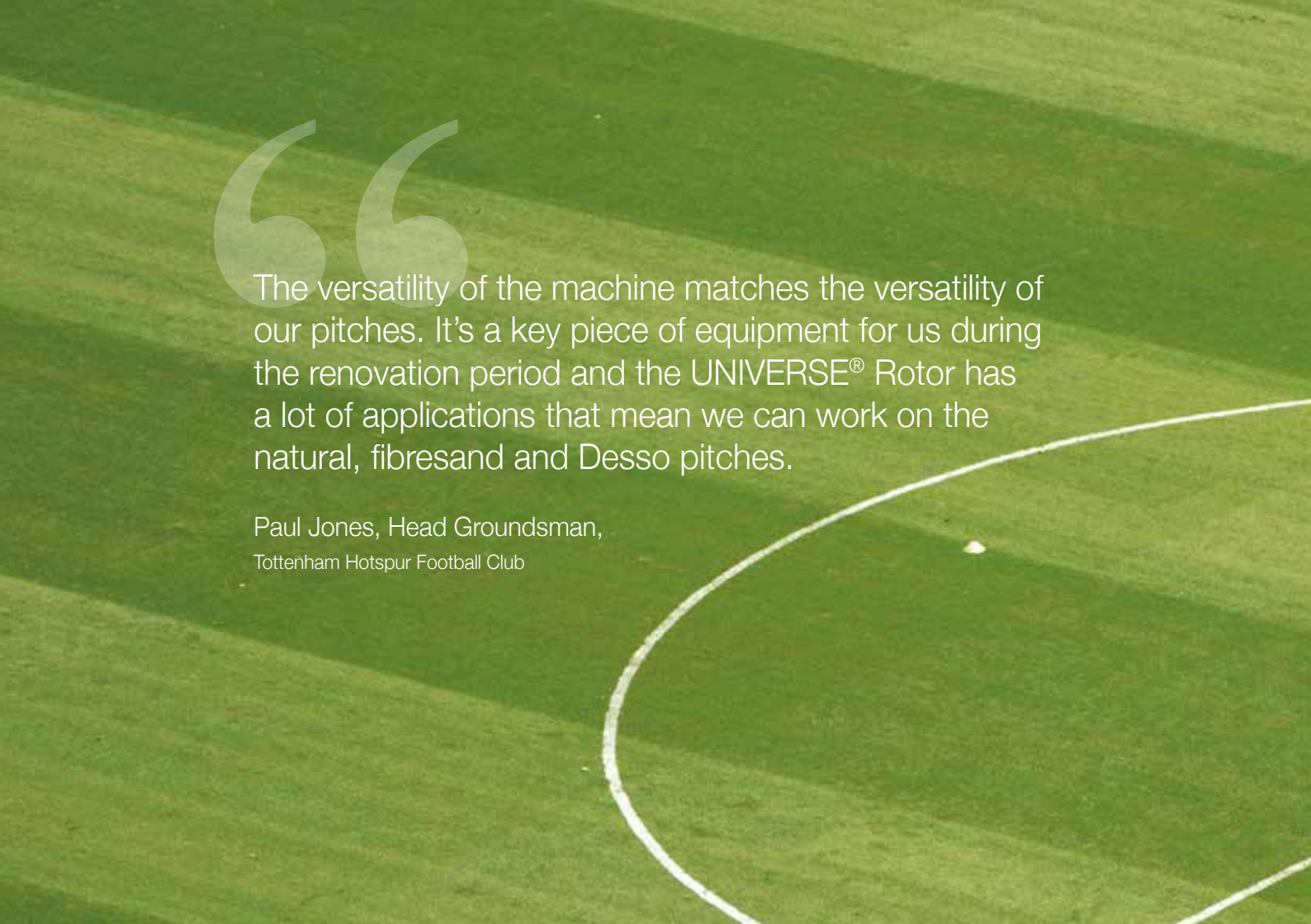


# Pitch Renovation

Yearly removal of all vegetation and organic matter using a KORO® FTM® fitted with a UNIVERSE® Rotor has become best practice and this procedure is highly recommended by leading sports turf professionals around the world.







“The versatility of the machine matches the versatility of our pitches. It’s a key piece of equipment for us during the renovation period and the UNIVERSE® Rotor has a lot of applications that mean we can work on the natural, fibresand and Desso pitches.

Paul Jones, Head Groundsman,  
Tottenham Hotspur Football Club



# Terraplane® Rotor

The Terraplane Rotor® now leads the way in accuracy of cut, blade durability and surface hygiene. Coupled with the KORO® FTM®'s infinitely fine, depth adjustment (accurate to 0.1mm), the Terraplane® Rotor will shave off the precise amount of organic material required, leaving a clean, smooth and even surface. The durability of the tungsten-faced blades prolongs the accuracy of cut, and reduces the down-time associated with changing blades. The unrivalled surface hygiene of the Terraplane® Rotor eliminates any clean-up pass and saves time, labour and fuel costs.



*Depth setting is accurate to 0.1mm, via a digital display read out*







338-ABB

165-ZAA

FIELDTOPMAKER



# Terraplane® Mowing





# KORO<sup>®</sup> by Imants - FIELD TOP MAKER<sup>®</sup> model options

<b>MODEL</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>	<b>2500</b>
Working width	1.20m / 47"	1.60m / 60"	2.00m / 79"	2.50m / 98"
Overall / transport width	1.60m / 63"	1.80m / 71"	2.55m / 100"	2.95m / 116"
Approx weight*	1,065kg	1,150kg	1,695kg	1,955kg
Working depth	0 to 50 mm / 0 to 2"			
Elevator discharge height	Approx 1.50m / 60"		Approx 2.0mm / 79"	
Recommended tractor	35 - 50hp	45 - 65hp	70 - 100hp	95 - 120hp
Tractor mounting	Cat I or II, 3-pt linkage		Cat II, 3pt linkage	
Tractor requirements	2 x double acting spool valves - 30L/min		2 x double acting spool valves - 40L/min	
	Creep speed gearbox or hydrostatic drive			
	540 PTO drive			
Operating speed	0 – 2kph / 0 – 1.2mph for Digging and Terraplane <sup>®</sup> rotors			
	0 – 4kph / 0 – 2.4mph for UNIVERSE <sup>®</sup> rotor			
	0 – 6kph / 0 – 3.72mph for Scarifying rotor			
<b>OPTIONAL ACCESSORIES</b>				
Mid-Mounted Roller	Optional	Optional	Optional	N/A

<b>MODEL</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>	<b>2500</b>
<b>OPTIONAL ROTORS</b>				
<b>Digging Rotor</b>	Available	Available	Available	Available
Number of Blades	40	52	64	80
<b>Terraplane® Rotor</b>	Available	Available	Available	Available
Number of blades	36	45	60	75
<b>UNIVERSE® Rotor</b>	Available	Available	Available	Available
Number of 10mm blades (on every holder)	120	150	200	250
Number of 5mm blades (on every holder) **	120	150	200	250
Number of 3mm blades (on every holder) **	120	150	200	250
<b>Scarifying Rotor</b>	Available	Available	Available	Available
3mm (1/8") Tipped Blades	Optional	Optional	Optional	Optional
1.5mm (1/16") Tipped Blades	Optional	Optional	Not recommended	Not recommended
Number of Blades	70	88	112	148
Blade spacing	34mm / 1 5/16"	34mm / 1 5/16"	34mm / 1 5/16"	34mm / 1 5/16"

*\*depending on rotor      \*\* different configurations are available*

# Campey Turf Care Systems

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