



# Campey

TURF CARE SYSTEMS

QUALITY GROUND CARE EQUIPMENT

# Perfecting Play™

**KORO** by imants  
**FIELD TOPMAKER SYSTEM**

[www.campeyturfcare.com](http://www.campeyturfcare.com)

[www.korofieldtopmaker.com](http://www.korofieldtopmaker.com)



# The Koro Story

## - a brief history



The brainchild of Ko Rodenburg, the Koro range of machinery came to market in 1997, with the Field TopMaker (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 have been at the fore in developing the Koro by Imants Field Topmaker 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!

## 4 different models now available



A model to suit any size tractor 35hp +



# Conventional Scarifying / Verticutting



## New design feature



The Koro Field TopMaker when fitted with the Scarification Rotor, can be used for conventional scarification / verticutting, conveying the excess thatch into an adjacent trailer / truck. The 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 FTM1500 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 Field TopMaker 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.

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



# Universe® Rotor - Patent No. W02013/027005

2012 / 2013 saw the introduction of 2 new rotors for the Koro FTM; Universe® and Terraplane®. The first blades designed for the Universe® rotor were 10mm.



*10mm tungsten tipped blades in 4 spiral Universe® rotor configuration*

*10mm blade #026709*

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® blades. 5mm and 3mm blades were developed for Koro Universe® 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 Universe® Finesse Mowing, or Koro Universe® Fraise Mowing.



*10mm, 5mm and 3mm blades*

# Universe® Rotor For Synthetic / Hybrid Surfaces

The Universe® 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® 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® Fraize Mowing.

Universe® Fraize Mowing on synthetic / hybrid surfaces allows the Turf Professional to maintain the original quality of the surface.













# Universe<sup>®</sup> Rotor For Different Playing Surfaces

The Universe<sup>®</sup> has been used on different playing sport surfaces i.e. golf, cricket and tennis with amazing results achieved.







# Universe® Fraize Mowing

Patent No. W02013/027005

*Koro by Imants Field TopMaker 1500 fitted with Universe® Rotor fraize mowing Bermuda grass fairway.*

A modern approach to managing excessive thatch build-up in warm season grasses is “Universe® Fraize Mowing”.

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® Rotor” is that it can be set accurately to leave rhizomes and stolens 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 minimizes water retention at the surface, ensuring that any available water passes directly to the rootzone.

In transitional zones, “Universe® Fraize Mowing” is used to speed up the transition from winter grasses to warm season grasses. The Universe® Rotor will take out the cool season grass and any organic build – up, leaving rhizomes and stolens in place. By removing the competition for water and nutrient, and exposing them to light, the transition period is dramatically reduced.



7 days



14 days





# Universe<sup>®</sup> Fraize Mowing

Patent No. W02013/027005







## Universe® Finesse Mowing

The 5mm Universe® 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® 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





# Universe® Finesse Blade Options For Universe® Rotor

Model	Blade	Thickness	Spacing		Qty
FTM1200	#030044	5mm	Every holder on alternate spiral	15mm	60
			Alternate holder on alternate spiral *	35mm	30
	#029654	3mm	Every holder on alternate spiral	17mm	60
			Alternate holder on alternate spiral *	37mm	30
FTM1500	#030044	5mm	Every holder on alternate spiral	15mm	75
			Alternate holder on alternate spiral *	35mm	38
	#029654	3mm	Every holder on alternate spiral	17mm	75
			Alternate holder on alternate spiral *	37mm	38
FTM2000	#030044	5mm	Every holder on alternate spiral	15mm	100
			Alternate holder on alternate spiral *	35mm	50
	#029654	3mm	Every holder on alternate spiral	17mm	100
			Alternate holder on alternate spiral *	37mm	50
FTM2500	#030044	5mm	Every holder on alternate spiral	15mm	125
			Alternate holder on alternate spiral *	35mm	63
	#029654	3mm	Every holder on alternate spiral	17mm	125
			Alternate holder on alternate spiral *	37mm	63

\* May require counter-balance weights.

## Percentage Removed With Different Blades And Configurations Of The Universe® Rotor

### 10mm

- 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

- 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

- 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





# Terraplane® Rotor



The Terraplane Rotor® now leads the way in accuracy of cut, blade durability and surface hygiene. Coupled with the Field Topmaker'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*



# Terraplane® Mowing





# Optional Rotors For All Models



## Universe® Rotor

- Removing organic debris from semi-synthetic grass pitches.
- Modern fraize mowing on warm and cool season grasses.
- 3 different thicknesses of blades available
- Tungsten-tipped blades for increased durability.
- Universe® rotor International Publication Number WO2013/027005



## Terraplane® Rotor

- Accurate planing of surface down to 50mm deep.
- Unrivalled surface hygiene for a clean, smooth surface.
- Tungsten faced blades for increased durability & reduced down-time.
- Terraplane® rotor N2008947



## Digging Rotor

- Original digging blade for fraize mowing & surface removal.
- Suitable in lower quality turf areas.
- Ideal for stripping prior to re-turfing.



## Scarifying Rotor

- For conventional scarifying & verticutting.
- Available with 2mm or 3mm tungsten tipped blades.
- Includes adjustable brush strips for increased surface hygiene.



# Koro by Imants - Field Top Maker Model Options

## Specification

MODEL	1200	1500	2000	2500
Working width	1.20m / 47"	1.50m / 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® rotors 0 – 4kph / 0 – 2.4mph for Universe® rotor 0 – 6kph / 0 – 3.72mph for Scarifying rotor			

## OPTIONAL ACCESSORIES

Mid-Mounted Roller	Optional	Optional	Optional	N/A
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## OPTIONAL ROTORS

<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
2mm (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

Marton Hall Lane, Marton, Macclesfield, Cheshire  
SK11 9HG United Kingdom

**Tel:** +44 (0)1260 224568

**Email:** info@campeyturfcare.com

**Web:** www.campeyturfcare.com  
www.korofieldtopmaker.com



Full Terms & Conditions are available on our web site. Please note: All specifications are subject to revision at any time without notice. All equipment offered is subject to availability. Horsepower ratings are given as a guide only. Machinery shown may have protective guards removed for demonstration purposes. R. Campey Ltd (trading as Campey Turf Care Systems and Campey Imants) strongly recommends the use of safety guards and shields during normal operation to reduce the risk of property damage and serious bodily injury.