

imants

KORO® FTM™

History of the FTM

The brainchild of Ko Rodenberg, the KORO Field TopMaker® (KORO FTM) came to market in 1997 as the key machine in a renovation program designed to improve turf quality and extend playing hours on natural turf soccer fields.

The largest contributing factor to the failure of sports fields has typically been excessive thatch and *Poa annua* contamination. Ko Rodenberg designed the Field TopMaker to “fraise” or remove the very top part of the plant. This process was found to remove the shallow rooted *Poa annua* and excessive thatch accumulations leaving the crown of the desired plant. This allowed for faster and more uniform regrowth to occur. A single fraise mowing pass far exceeded the results of available scarification processes.

The acquisition of the manufacturing rights by Imants in 2009 and the fine-tuning of fraise mowing renovation practices has led to the design of a new range of rotors.

The indisputable success of the KORO FTM across all sports surfaces has helped produce healthier turf through greatly improved surface hygiene and the remastered 1.2 (48”), 1.6 (63”), 2.0 (79”) and 2.5 (99”) models build on that success.

Imants has turned KORO FTM into a system that can be used on a wide range of surfaces for a number of different renovation practices.



Understanding Fraise Mowing

A modern approach to managing excessive thatch buildup in warm season grasses is “CAMPEY™ UNIVERSE® fraise mowing”.

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

A radical approach is to remove all the organic buildup in one pass. The unique feature of the CAMPEY™ UNIVERSE® 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, regeneration is rapid with full recovery often in 3 - 4 weeks. Removing the thatch and organic debris minimizes water retention at the surface and ensures that any available water passes directly to the root zone.

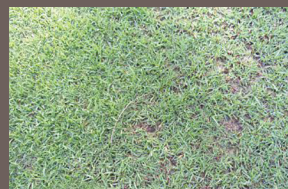
In transitional zones, fraise mowing with the CAMPEY™ UNIVERSE® rotor speeds up the transition from winter grasses to warm season grasses. The CAMPEY™ UNIVERSE® rotor will take out the cool season grass and any organic buildup, but leave rhizomes and stolons in place. By removing the competition for water and nutrients and exposing them to light, the transition period is dramatically reduced.



Day of Fraise Application



Day 7



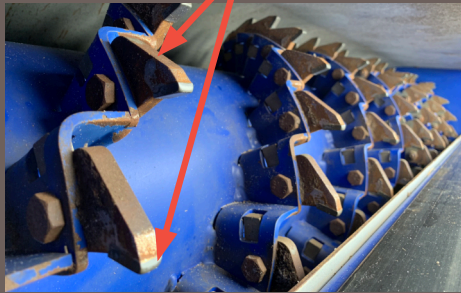
Day 14

There is only ONE patented CAMPEY™ UNIVERSE® rotor

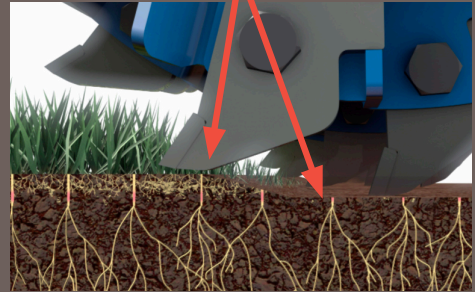
Fraise mowing natural grass utilizing the CAMPEY™ UNIVERSE® rotor achieves excellent surface hygiene without damaging rhizomes and stolons. The CAMPEY™ UNIVERSE® rotor will extend the life of your natural grass surface by managing organic matter levels, removing weed seeds, and increasing the tinsel strength of your existing stand.

When the fraise mowing application is completed on hybrid playing surfaces, the CAMPEY™ UNIVERSE® rotor will not damage the fibers. Fraise mowing on hybrid surfaces allows turf professionals to maintain the original quality of the surface.

Patented L-shaped blade of the CAMPEY™ UNIVERSE® rotor with 3/8" tungsten tipped blades



L-shaped blade of the CAMPEY™ UNIVERSE® rotor allows for a "combing" effect causing minimal damage to remaining turf, natural or hybrid



Research and testing on different sports turf and grasses, to see how long the recovery time was in different situations, led to the development of different thicknesses of CAMPEY™ UNIVERSE® blades. 3/16" and 1/8" blades were developed for CAMPEY™ UNIVERSE® finesse mowing, which will deliver a more refined finish. The working depth of the rotors can be set with infinite precision.

All three blades can be used on natural turf and both cool and warm season grasses for CAMPEY™ UNIVERSE® finesse mowing or CAMPEY™ UNIVERSE® fraise mowing.

3/8" (10 mm)



3/16" (5 mm)



1/8" (3 mm)






The Imants **KORO FTM**, with the patented **CAMPEY™ UNIVERSE®** rotor, is the industry-leading fraise mower. The **FTM** removes unwanted surface matter, such as *Poa annua*, thatch, weeds, or the entire surface, to a depth of 2". A side conveyor removes debris directly into a trailer, leaving a level and even surface. The **FTM 1.2** and **FTM 1.6** are designed and built for fine turf applications, such as golf courses, sports fields, and small turf areas. An optional mid-mounted roller can be used for more aggressive undulations. The **FTM 2.0** and **FTM 2.5** are designed for maximum efficiency for sports fields and sod farms. All **FTM** models can be fitted with **CAMPEY™ UNIVERSE®** rotor, Terraplane® rotor, Scarifying rotor, or Digging rotor.



Visit AQUAAIDSOLUTIONS.com for additional **FTM** pictures and videos.

Specifications

	FTM 1.2	FTM 1.6	FTM 2.0	FTM 2.5
Working Width	47"	63"	79"	98"
Folded Transport Width	80"	90"	100"	120"
Operational Unfolded Width	127"	151"	177"	213"
Weight w/ CAMPEY™ UNIVERSE® Rotor	1,746 lb	1,951 lb	2,987 lb	3,329 lb
Working Depth	0" - 2"			
No. of CAMPEY™ UNIVERSE® Blades	121 (3/8")	161 (3/8")	202 (3/8")	252 (3/8")
No. of CAMPEY™ UNIVERSE® Finesse Blades	121 (1/8" or 3/16")	161 (1/8" or 3/16")	202 (1/8" or 3/16")	252 (1/8" or 3/16")
No. of Terraplane Blades	36	48	60	75
No. of Scarifying Blades	68 (1/16" or 1/8")	92 (1/16" or 1/8")	112 (1/16" or 1/8")	144 (1/16" or 1/8")
No. of Digging Blades	40 (20 LH, 20 RH)	52 (26 LH, 26 RH)	64 (32 LH, 32 RH)	80 (40 LH, 40 RH)
Power Requirement	50- 65 hp	55 - 75 hp	70 - 120 hp	90 - 120 hp

Tractor Requirement: 540 pto, Creep gear or hydrostatic drive required, 2 x double acting spool, 4-wheel drive recommended. Confirm individual tractor specification has adequate lifting capacity.

Hydraulic Flow: 13.2 gpm min. (FTM 1.2 & FTM 1.6), 15.8 gpm min. (FTM 2.0 & FTM 2.5)

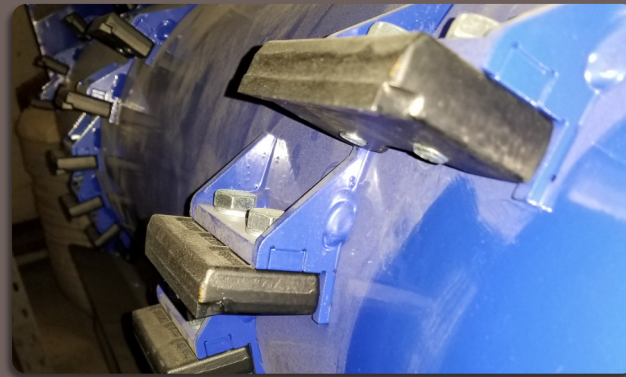
Operating Speed: CAMPEY™ UNIVERSE® rotor: 0.3 to 2.5 mph, CAMPEY™ UNIVERSE® Finesse rotor and Scarifying rotor: 0.3 to 3.7 mph, Terraplane rotor and Digging rotor: 0.3 to 1.2 mph

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KORO® FTM™ Rotor Options

CAMPEY™ UNIVERSE® Rotor

- Remove organic debris from hybrid / semi-synthetic turf
- Modern fraise mowing on warm and cool season grasses
- Tungsten tipped blades for increased durability



Terraplane Rotor

- Accurate planning of surface down to 2" depth
- Unrivaled surface hygiene for a clean, smooth surface
- Tungsten faced blades for increased durability and reduced down-time

Scarifying Rotor

- For conventional scarifying and verticutting
- Available with 1/16" or 1/8" tungsten tipped blades
- Includes adjustable brush strips for increased surface hygiene



Digging Rotor

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