



# THE FA PITCH IMPROVEMENT PROGRAMME

## PRODUCT GUIDE

# Charterhouse

## TURF MACHINERY

### WELCOME

As the machinery supplier to The FA's Pitch Improvement Programme, Redexim Charterhouse are pleased to offer a selected range of quality machinery for supply to grassroots football clubs. Redexim Charterhouse has 35 years of development and manufacturing experience coupled with strong links with the turf care industry; this knowledge and relationships have allowed us to compile the following list of equipment available for supply with local support, advice and back-up.



The equipment listed has been selected with grassroots football pitches in mind, thus taking into account the storage, longevity, ease of use and effectiveness of every item offered. The feedback we have received from grassroots clubs and our experience from various pilot programmes has indicated that a prime-mover will prove to be an invaluable and versatile base to commence with. The tractor allows for regular grass cutting to be carried out through a range of options, while allowing the clubs to acquire additional implements to improve the quality of surface. Redexim Charterhouse understand the Pitch Improvement Programme is more than cutting grass and to this end believe that the range of implements offered will aid the improvement of facilities thus allowing the game to be played year round.



**All implements  
featured in this booklet  
are suitable for use with  
the Kubota STW34.**

**Please contact your local  
County FA for funding  
requests or to  
register your  
interest.**

**Should you have any questions  
or require any additional information,  
please contact our advice line  
+44 (0)1428 661222.**





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# CUTTING EQUIPMENT - PEDESTRIAN/RIDE-ON

## Pedestrian Mower



A four wheeled self-propelled mower, powered by Honda petrol engine.

Comes with collection bag and front bumper - ideal for cutting around the football club and smaller pitches.

Kubota	W821R-Pro 21"
Working Width	53cm / 21"
Engine	Honda GXV160
Weight	62kg

## Pedestrian Roller Mower



Self-propelled mower featuring a rear roller for strips, powered by a Honda petrol engine.

Comes with collection bag and front bumper - ideal for cutting around the football club and smaller pitches.

Kubota	W821R-Pro 21"
Working Width	53cm / 21"
Engine	Honda GXV160
Weight	58kg

## Ride-on Mower & Collector



Ride on cutting unit suitable for cutting single pitch sides.

The hydrostatic transmission makes operation very simple while the shaft driven deck is very durable.

Kubota	GR1600II
Engine	13.5hp diesel engine
Working Width	42" cutting deck
Grass Collector	370 Litre
Weight	415kg
Optional	Grass Deflector Plate

# TRACTOR

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## Tractor



A 34hp tractor to carry and propel a large range of implements a football club may utilise.

The tractor comes with front chassis weights.

The tractor can operate all implements listed for the FA PIP.

Kubota	STW34
Engine	34hp diesel engine
Weight	1310kg
Features	4WD / ROPS / 3pt hitch

## Tractor & Mower



As above including mid mounted side eject cutting deck. The deck has 3 cutting blades with a cutting width of 152cm.

The height of cut can be adjusted from 25mm to 125mm. The caster wheels prevent scalping on uneven ground.

Kubota	STW34 + 60" deck
Engine	34hp diesel engine
Weight	1310kg + deck
Features	4WD / ROPS / 3pt hitch
Cutting Deck	60" / 152cm Deck

## Tractor, Mower & Collector



As above including a rear mounted hopper to collect grass clippings.

The unit utilises a turbine to draw the cut material into the hopper. This can be emptied hydraulically from the seat.

Kubota	STW34, 60" deck + collector
Engine	34hp diesel engine
Weight	1310kg + deck & collector
Cutting Deck	60" / 152cm Deck
Grass Collector	580 Litre
Features	4WD / ROPS / 3pt hitch

# ROLLER MOWER / COMBINATION TOOL / SCARIFIER

## Roller Mower



The Roller Mower is ideal for the cutting of football pitches. Large range of adjustments gives options dependant on the time of year and weather.

The rollers give a stripe while the grass is evenly ejected from the rear of the mower

Redexim	RDM 180
Working Width	180cm
Weight	620kg
Cutting height	12mm - 50mm
Feature	Roller Scrapers

## Combination Tool



The Multi-Sport combination tool offers many features in one unit. The ability to slit, rake, roller or brush in pass to varying depths is invaluable to football surfaces. The storage stands make dismounting or mounting from the tractor very easy.

Redexim	Multi-Sport 180
Working Width	180cm
Weight	328kg
Feature	Slitter, Roller, Brush, Rake
Feature	Storage Stands

## Tractor Mounted Scarifier



The scarification process works as part of the ongoing renovation of a pitch. The working depth can be adjusted to remove moss and thatch from the surface. This encourages healthy grass growth and good soil hygiene.

Verti-Cut	Verti-Cut 1300
Working Width	130cm
Weight	167kg
Operating Depth	40mm working depth
Features	2mm carbide tipped blades



Pedestrian Scarifier



The Pedestrian Scarifier is ideal for treating smaller areas. The working depth can be adjusted to remove moss and thatch from the surface. This encourages healthy grass growth and good soil hygiene.

Redexim	Scarifier
Working Width	50cm
Weight	74kg
Operating Depth	up to 15mm
Features	48 swing blades / 24 fixed blades

Drag-Mat



The Drag Mat can be used for a range of tasks on a football pitch. It is ideal for working in topdressing material or breaking up soil that may accumulate on the playing surface.

Redexim	Drag-Mat
Working Width	120cm x 180cm working
Weight	12kg

Chain Harrow



Trailed Chain Harrows clear the ground surface of weeds, moss and dead grass to promote and enhance new growth, these harrow can also be used to improve the groundwork for a fine seed bed finish.

Kubota	Chain Harrow
Working Width	180cm
Weight	70kg

# TRANSPORT BOX / FERTILISER SPREADER

## Transport Box



Tipping transport box includes integrated rear blade, removable top hinged tail door with a manual tipping lever. Ideal for moving smaller machinery or materials around the site.

Kubota	Transport Box
Width	150cm
Depth	90cm
Weight	110kg
Load capacity	500kg

## Fertiliser Spreader



The towed Fertiliser Spreader has an adjustable flow rate to govern the amount of material delivered, while the travel speed of up to 10mph determines the spreading width of between 2-6m.

Kubota	SP150
Spreading Width	2-6m
Weight	60kg
Hopper capacity	150litre

## Tractor Mounted Fertiliser Spreader



Suitable for wide ranging use, from feeding grass on playing fields and sports pitches to fertiliser spreading and even salt spreading, the adjustment in PTO speed determines the area of spread.

Kubota	XL300
Spreading Width	6-18m
Weight	60kg
Hopper capacity	300litre



# GANG CYLINDER MOWERS

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## 3 x Gang Mounted Unit



Linkage mounted cylinder mower gang. Land - driver cylinders will cut flat areas quickly. The units have 6 bladed 190mm diameter cylinders. The linkage mounted feature allows the whole machine to be lifted from the ground for transport or storage.

Lloyds	Husky
Working Width	230cm
Set-up	3 x gangs with steel drive wheels
Hitch	3 linkage mounted

## 3 x Gang Trailed Unit



Towed gang unit - land driven. The cutting units have a 6 bladed 190mm cylinders for football surfaces. Only suitable for flat - debris free areas. The three units give a total cutting width of 230cm.

Lloyds	Trio
Working Width	230cm
Set-up	3 x gangs with steel drive wheels
Hitch	Trailed

## 5 x Gang Trailed Unit



As above with additional gangs to make a total cutting width of 380cm across five units.

Lloyds	Leda
Working Width	380cm
Set-up	5 x gangs with steel drive wheels
Hitch	Trailed

# PEDESTRIAN CYLINDER MOWER

## Cylinder Mower



A self propelled Cylinder Mower, powered by a Honda engine. The cutting height can be adjusted from 10mm to 40mm. The machine comes with a grass collection box. This machine is only suitable for flat, level surfaces.

Allett	B34
Working Width	86cm / 34"
Cylinder	8 bladed cutting cylinder
Weight	175kg
Engine	5hp Honda Engine
Cutting Height	10mm - 40mm

## Cylinder Mower with Cartridge



As above but with the ability to change the cartridge between cutting, scarifier, brush, verti-cutting & sorrel roller. There is an option to add a trailed seat to cut larger areas. The machine comes with a grass collection box. The unit comes with a 6 bladed cylinder. Please specify required cartridges when ordering.

Allett	C34
Working Width	86cm / 34"
Features	Interchangeable cassettes
Cylinder	6 bladed
Weight	164kg + cartridge



### Optional Interchangeable Cartridges

CC348F	34" (865mm) 8 Blade Cutting Cylinder Cartridge
C34VC	34" (865mm) Verticut Cartridge
C34TR	34" (865mm) Spring Tine Turf Rake Cartridge
C34B	34" (865mm) Brush Cartridge
C34SR	34" (865mm) Sorrel Roller Cartridge
C34SC	34" (865mm) Scarifier Cartridge
TS100/1	Trailing Seat

# DEEP TINE AERATOR / LINEAR AERATOR

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## Deep Tine Aeration - 150cm



The Verti-Drain deep tine aerator is an invaluable tool for the aeration of football pitches. The 7215 Verti-Drain has an adjustable working depth and the option to add heave. There are a range of tines available depending on the requirements.

Redexim	Verti-Drain 7215
Working Width	150cm
Weight	582kg
Operating Depth	Maximum of 10" /250mm depth
Features	Adjustable heave

## Deep Tine Aeration - 160cm



The 7316 offers the same process as the above but with a larger working width of 160cm and an increased maximum depth of 300mm. The 7316 Verti-Drain has a large range of tines.

Redexim	Verti-Drain 7316
Working Width	160cm
Weight	697kg
Operating Depth	Maximum of 12" / 300mm depth
Features	Adjustable heave

## Linear Aeration - 100cm



The linear process of aeration the Verti-Quake employs encourages root growth and shatters soil pans - with adjustable working depth the 2510 can be used around the year. The rear roller will stripe the surface as the machine passes over.

Redexim	Verti-Quake 2510
Working Width	100cm
Weight	520kg
Operating Depth	Maximum of 10" / 250mm depth



# LINEAR AERATOR / SLITTING / RAKING

## Linear Aeration 160cm



As with the Verti-Quake featured on page 10, the 2516 utilises rotary blade action to de-compact the soil profile. The 2516 has a larger working width at 160cm with the same maximum working depth of 250mm.

Redexim	Verti-Quake 2516
Working Width	160cm
Operating Depth	Maximum of 10" / 250mm depth
Weight	622kg

## Slitter 180cm



This Slitter allows air/water exchange to take place aiding drainage, this is a fast and proven method of aeration.



*Optional rear roller is available.*

Redexim	Level-Spike 1700
Working Width	180cm
Operating Depth	Up to 10" / 250mm working depth
Features	48 deep slit knives
Options	Rear Roller

## Rake



The Verti-Rake decompacts the turf surface using thin spring-loaded and flexible tines.

The Verti-Rake tines scratch between the turfblades and loosen the thatch. The tines are integrated in a special protection device that will prevent the loss of tines during operation. The Verti-Rake can also be used to create a seed bed before overseeding.

Redexim	Verti-Rake 200
Working Width	200cm
Weight	220kg (485lbs)
Number of rakes	168

# DIMPLE SEEDER / DISC SEEDER

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## Dimple Seeder 120cm



The Dimple Seeder is a popular way of applying seed to football pitches. The conical shaped spikes create a pocket in the soil which the seed is then dropped into. The rear roller then closes this pocket and ensures germination can take place. The metering wheel allows the seed rate to match travel speed.

Redexim	Speedseed 1200
Working Width	120cm
Weight	383kg
Features	Adjustable application rates

## Dimple Seeder 160cm



The larger 1600 Dimple Seeder allows for larger areas to be covered in one pass. The use of a seeder ensures that grass seed is drilled to germinate and not left on the soil surface.

Redexim	Speedseed 1600
Working Width	160cm
Weight	460kg
Features	Adjustable application rates

## Disc Seeder 120cm



The Disc Seed will cut a groove into the surface, the disc then drops the seed to the bottom and closes the soil over the seed. The 1275 Overseeder has easily adjustable application rates like the Speedseed and utilises a land - drive wheel to match seed rates to travel speeds.

Redexim	Overseeder 1275
Working Width	120cm
Weight	676kg
Disc Spacing	75mm
Features	Adjustable application rates

# SYNTHETIC SURFACES - BRUSHING / DEBRIS REMOVAL

## Brushing unit 200cm



The RTC has been developed with regular brushing in mind. The self contoured unit allows for the routine maintenance to be carried out by one machine. With a working width of 200cm and a fold-able wings the RTC can be stored and accessed easily.

Redexim	RTC
Working width	200cm
Storage/Access width	90cm
Weight	235kg
Engine	24hp - twin cylinder

## Brushing 185cm



A triangular brush that can be towed by most prime movers. The unit can be pulled from any side to spread wear and maximise life span. The bristles stand up carpet fibre and move infill into site to support fibres.

Redexim	Verti-Broom 185
Working width	185cm
Weight	50kg

## Debris Removal 150cm



A land driven towed unit to collect surface dirt and debris from synthetic turf surfaces. The machine uses a rotary brush to flick material onto an oscillating sieve. The foreign material remains here for removal while infill is returned to the surface.

Redexim	Verti-Clean
Working width	150cm
Weight	109kg
Sieve	Interchangeable



# SYNTHETIC TURF CLEANING

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## Synthetic Turf Clean 1200



The Verti-Top utilises a powered brush to sweep into the carpet removing infill, dust and detritus. This material is then placed on an oscillating sieve to be separated from the infill to be returned. A vacuum system removes dust and fibres during the cleaning process.

Redexim	Verti-Top 1200
Working Width	120cm
Weight	358kg
Sieve	Interchangeable

## THE PIP GRANT APPLICATION PROCESS

### Key

**EOI** - Expression of Interest

**FAPIP** - Football Association Pitch Improvement Programme

**CFA** - County Football Association

**IOG** - Institute of Groundsmanship

**RPA** - Regional Pitch Advisor

**RFIM** - Regionall Facility Investment Manager

**NGS** - National Game Strategy

### STEP 1

Club submits **FA** Expression of Interest Form (**EOI**) detailing their aspirations linked to The **FA PIP**

### STEP 2

**EOI** reviewed by **CFA** with a visit organised and coordinated with the club and **IOG RPA**  
All visits should be coordinated through the **IOG RPA**, should the **RPA** not have capacity to undertake the visit a member of the agreed extended network may be appointed

### STEP 3

A site visit is carried out with respective **CFA** presence if possible

### STEP 4

A report is produced by the **RPA** with a copy sent to the club, **CFA** and The **FA RFIM**  
Feedback sought from club following an agreed timescale

### STEP 5

Club reviews and discusses recommendations with **CFA** and **FA RFIM**  
Should the recommendations include improvement to onsite machinery or access to natural turf consumable products then The **FA** commercial partners should be engaged  
Should the recommendations include training and support for the onsite groundsman then access to appropriate training opportunities should be clearly detailed in the report

### STEP 6

A revisit date is agreed with the **RPA**, **CFA** and club

### STEP 7

Revisit report reviewed and if tangible improvement is evident then pitch can be classed as 'improved' and is eligible to be allocated against **CFA NGS** target

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