

# Sports Turf Operations Pty Ltd

Recently formed in 2011, Sports Turf Operations brings together the experience, ability and equipment of Directors Brett Micklewright and Duncan Swinton. ***“Collectively we bring 60 years of experience managing, constructing and renovating sports turf in Queensland, Northern Territory and New South Wales. We bring a range of best practice sustainable renovation techniques and equipment to the sports turf industry, which was lacking dedicated contractors capable of delivering long term practical and sustainable turf management programs”.***

Duncan was formally trained as a Greenkeeper at Brisbane Golf Club who quickly moved up the ranks to assistant superintendant before moving on to manage other golf courses throughout Queensland and the Northern Territory broadening his knowledge of sports turf and construction. In 2001 Duncan and his family set up a small turf farm/contracting business (All Turf Solutions) at Tamborine, providing instant turf and solutions to residential and commercial customers.



Brett was formally trained as a Greenkeeper at Coolangatta-Tweed Heads Golf Course and furthered his trade at Burleigh Golf Course before starting “Turf Renovation Services” in 1987. Concentrating on the municipal sports fields and fine turf renovation in Golf and Bowls which is still operating today. His achievements and dedication to the industry earned him an “Industry Recognition Award” by the Qld Golf Industry Awards Council.



## Our Services Include;

- ◆ Sustainable Renovation Techniques. ***“our revolutionary equipment can quickly and cost effectively renovate your sports fields like no other”***
- ◆ Conventional Renovation Techniques. ***“we offer a range of aerators, topdressing and scarifying equipment to support our sustainable systems”***
- ◆ Drainage solutions. ***“sand slitting and laser sub surface drainage installation for existing fields”***
- ◆ Refurbishment NOT Reconstruction. ***“utilize your assets – cost effective sustainable solutions”***
- ◆ Sports Turf Construction. ***“from parks to sand profile stadiums”***
- ◆ Grassing Solutions. ***“our integrated turf farms can supply a wide range of grasses and systems suitable for sports fields”***

Sports Turf Operations Pty Ltd

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

**Sustainable Renovation Techniques.** *“our revolutionary equipment can quickly and cost effectively renovate your sports fields like no other. Correct profile management improves microbial activity, water, nutrient and air availability”*

## Koro Recycling Dresser

This cost effective, fast, one pass renovation tool creates unparalleled soil fracturing to 120 mm and produces 150 tonne per ha of topdressing with no extra equipment, manpower and logistical backup.

Total soil fracturing, no imports, nothing leaves. Surfaces experience minimal disturbance. No more build up of perched layers. By busting through these layers and providing soil from within the profile the functional principals of an ideal perched water table management is maintained.

It's mode of operation is simple yet unmatched in our industry in terms of effectiveness (results & cost), the benefits gained are:

- ◆ 120mm de compaction alleviation.
- ◆ Significant Aeration and infiltration improvements.
- ◆ Black Layer reduction.
- ◆ Re-activation of locked up nutrients within the compacted soil profile.
- ◆ Vertical mixing effect.
- ◆ Creates 150 tones pre hectare of topdressing.
- ◆ Surface leveling by filling up worn out, rutted out low areas.
- ◆ Player Injury reduction by minimizing Surface Hardness.
- ◆ Productivity rate of up to 2ha per day.
- ◆ Greatly reduces the time required to perform all of these operations with conventional equipment.

***“Recycle Your Assets.***

***Save Dollars and The Environment”***



**Koro Recycling Dresser In Action**



**Results Before Leveling On Grassed Surface**



**Regular Recycling Reduces Layering Issues**

**Sports Turf Operations Pty Ltd**

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

**Sustainable Renovation Techniques.** *“our revolutionary equipment can quickly and cost effectively renovate your sports fields like no other”*

## Koro Field Topmaker (FTM)

The ultimate tool for the total removal of vegetative thatch and weed infestation to your requirements. The FTM is a totally adjustable, even, accurate “fraise mowing or shaving” surface removal tool that can shave or profile from 0 – 40mm.

- ◆ Shave the thatch layer, perform minor subsidence leveling or profile for turf replacement.
- ◆ Remove thatch or weeds off site in one efficient operation leaving a level clean surface.
- ◆ When set at the right height it can achieve phenomenal mechanical weed removal of tufted grasses like Winter Grass, Wire Grass and Cross Foot etc can be eradicated in one clean efficient pass.
- ◆ As a harvesting tool for vegetative plant material grass ‘stolons’ can be generated efficiently and to size depending on turf variety requirements.
- ◆ Regeneration of surface is rapid with most of our warm season grasses.
- ◆ Apply pre emergent herbicides after FTM to promote a weed free surface.

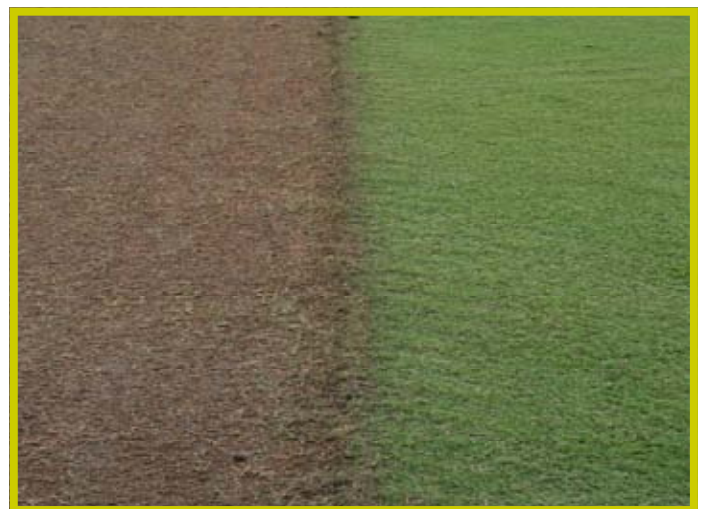
***“Mechanical Not Chemical Weed Removal. Save Dollars and The Environment”***



**Koro FTM**



**Koro FTM In Action**



**Koro FTM Results**

**Sports Turf Operations Pty Ltd**  
ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270  
P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

## Conventional Renovation Methods versus Sustainable

The following comparisons are based on industry averages in South East Queensland. Completion times are based on an area of one hectare. This is a guide only. Minimums do apply.

<b>Case Study One. Aerate &amp; Top dress</b>	<b>Indicative Rate</b>	<b>Total rate per Ha</b>
Conventional Renovation Practice. Completion time over 2 to 3 days. 1. Aerate with Verti-drain type machine. 2. Supply and spread topdressing with fine washed fine sand at 150 tonne/ha. <u>Total Costs</u>	\$0.12/m <sup>2</sup> \$40.00/tonne	\$1200.00 \$6000.00 <u>\$7200.00</u>
The Sustainable System. Completion time 1/2 day 1. Aerate & Top dress with "Koro" Recycling Dresser. <u>Total Costs.</u>	\$0.45/m <sup>2</sup>	\$4500.00 <u>\$4500.00</u>

### The Sustainable Advantage

1. The sustainable system will provide greater compaction relief
2. No layering from inconsistent topdressing blends.
3. Total renovation is achieved in one day.
4. No hold ups caused by poor weather or delivery truck schedules

<b>Case Study Two. Dethatch/Shave, Aerate &amp; Top dress. Note Scarifying dumped on site.</b>	<b>Indicative Rate</b>	<b>Total rate per Ha</b>
Conventional Renovation Practice. Completion time per ha. 3 days. 1. Scarify and vacuum double pass. 2. Aerate with "Verti-Drain" type machine 3. Supply and spread topdressing with fine washed sand at 150 tonne/ha <u>Total Costs</u>	\$0.20/m <sup>2</sup> \$0.12/m <sup>2</sup> \$40.00/tonne	\$2000.00 \$1200.00 \$6000.00 <u>\$9200.00</u>
The Sustainable System. Completion time per ha. 2 days 1. Shave off all of the thatch with "Koro FTM" and dump onsite. 2. Aerate & Top dress with "Koro Recycling Dresser" <u>Total Costs</u>	\$0.50/m <sup>2</sup> \$0.45/m <sup>2</sup>	\$5000.00 \$4500.00 <u>\$9500.00</u>
Optional Pre Emergent Herbicide Application. "Ronstar" plus fertiliser.	\$0.30m <sup>2</sup>	\$3000.00

### The Sustainable Advantage

1. The sustainable system will provide a thatch free surface free from clumping grasses like Wire Grass and Crows Foot. Conventional scarifying can't do this.
2. The FTM will perform minor leveling.
3. Greater compaction relief.
4. No layering from inconsistent topdressing blends.
5. Total program is achieved in under two days.
6. If a pre emergent program is adopted then a mono strand turf surface can be achieved.

Sports Turf Operations Pty Ltd

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: info@allturfsolutions.com.au

# Sports Turf Operations Pty Ltd

## Conventional Renovation Techniques.

*“we offer a range of aerators, topdressing and scarifying equipment to support our sustainable systems”*

### Renovation Equipment

#### Aeration Equipment

- ◆ Verti – Drain 200H
- ◆ Verti—Drain 7521
- ◆ Aera-vator

#### Scarification Equipment

- ◆ TR 50 with 8m3 collection bin

#### Top Dressing & Amendment Spreading

- ◆ Scorpion
- ◆ Dakota
- ◆ Vicon Pendulum Spreader
- ◆ Tycrop Quick Pass

- ◆ **Other Turf Equipment**

- ◆ Precision overplanting and line planting
- ◆ Laser Blade drag bucket
- ◆ New Holland Skid Steer Loader
- ◆ Harley Power Rake MX7
- ◆ Dingo Mini Loader and Rotary Hoe
- ◆ 1.8 meter Rotary Hoe



Sports Turf Operations Pty Ltd

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

## Drainage solutions. *“sand slitting and laser sub surface drainage installation for existing fields”*

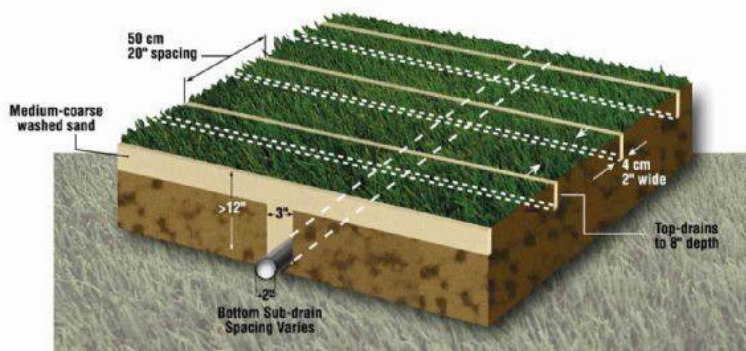
This system of retrofitting sports field surfaces with surface sand slitting connected to sub surface drains saves on expensive rebuilds and improves surface playability. The **Koro Top Drain System** has been designed to keep fairways and sports fields in optimal condition, by means of rapid surface water drainage. Thanks to the rapid surface water drainage, a stable top layer is created with strong grass rooting, and playing damage is reduced.

The Koro Top Drain is the only established machine capable of cutting three 40mm wide trenches at once, with a spacing of 500mm, at a depth of 250mm, removing the spoil in one operation. It then injects sand and re-compacts all in one operation, leaving a permanent drainage solution. Designed for use on sports fields and golf course fairways, it offers material and labour savings, faster processing times and less surface contamination than conventional drainage methods. The sand grid it creates complements existing piped drainage systems, resulting in firmer, drier playing surfaces that can sustain increased levels of play .

**Maintenance of a Top Drain Field.** Annual removal of excess organic material is required to keep the sand corridors clean and free of blocking. The most efficient system to use is the Koro Field Topmaker, where by the surplus material is shaved off leaving the sand corridors exposed. Depending on the top layer composition, a regular sand top dressing of the field is important to prevent blocking.



### Drainage Schematic Showing Matrix



Sports Turf Operations Pty Ltd

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

Refurbishment NOT Reconstruction. *“utilize your assets – cost effective, sustainable solutions”*

We have a range of systems that can be implemented to solve a variety of scenarios.

**Minor resurfacing of existing sports fields keeping existing grass species.**

1. Remove thatch, weeds and minor undulations with Koro Field Topmaker.
2. Generate soil for minor re leveling with the Koro Recycling Dresser.
3. Level with spreader bars or laser grader.
4. Apply a pre emergent herbicide to check for unwanted weed germination.
5. Field recovery in 6 – 8 weeks.
6. Follow up topdressing or Koro Recycle Dressing any time when suitable.

**1. Major Resurfacing of existing sports fields.**

2. Total kill spray of all existing weeds and grass types.
3. Rip and Cultivate with Bleckavator.
4. Laser grade.
5. Apply amendments and incorporate.
6. Re grade, consolidate and prepare for planting.
7. Stolonise or line plant with improved turf grass.
8. Surface ready in 12-16 weeks depending on time of year.
9. Solid turf with maxi rolls and field is ready in 3-4 weeks.
10. Follow up topdressing or Koro Recycle Dressing any time when suitable.



Sports Turf Operations Pty Ltd

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)

# Sports Turf Operations Pty Ltd

**Grassing Solutions.** *“our integrated turf farms can supply a wide range of grasses and systems suitable for sports fields”*

## Turf Installation Systems

- ◆ Line planting and over planting into existing grassed surfaces with out disrupting play. Change over your turf grass by over planting with an improved variety to extend the playing hours and reduce costly repair bills. This equipment accurately plants fresh cut stolons into channels with minimal disturbance of the surface. Depending on climatic conditions we can have a 100% cover in as little as 3 months.
- ◆ Solid turf with maxi rolls. Available in for all grass varieties.
- ◆ “Lay & Play” An extra thick profile that will not move. Ready to use immediately.

## Turf varieties include

- ◆ Oz Tuff—Highest wear tolerance of any turf grass, salt resistant, low water requirements, & low maintenance, no seed head, superior colour retention in drought and cold temperatures.
- ◆ Wintergreen—Widely used hybrid green couch with moderate wear characteristics.
- ◆ CT-2—Good colour retention, low seed head and thatch production.
- ◆ C-1—Moderate wear resistance. Poor colour retention. Highest fertiliser and maintenance requirements of any sports turf variety.
- ◆ Kikuyu—An old favorite with southern customers. Better suited to cooler climates.



**Sports Turf Operations Pty Ltd**

ABN 56 150 946 320

2125 Beaudesert-Beenleigh Rd, Tamborine, Qld. 4270

P: 07 5543 8304 F: 07 5543 8444 E: [info@allturfsolutions.com.au](mailto:info@allturfsolutions.com.au)