



TOPCHANGER^{XP}



Healthy Soil,

Better Turf

Customer challenges



Poor drainage



Compaction



Soft surfaces



High levels of organic matter



Thatch build up



Cost of course closure



Weather windows for maintenance



Labour shortage

Features, Benefits & Requirements

How it works

Water from an irrigation system is pressurized by a PTO-driven pump and then computer-controlled and dosed into the soil. High pressurized water is used for decompaction soil. In the same workflow, wet sand can be injected with or without granular amendments, creating vertical drains. This to create healthy soil for better turf.

Product features

- ✓ Working width 1.60 m.
- ✓ Weight 700 kg.
- ✓ Working pressure 200 to 260 bar.
- ✓ 2 undulation-following injection blocks.

Advantages sand injection

- ✓ Sand injection optimizes water uptake and keeps the rootzone perfectly balanced.
- ✓ It creates air channels that boost oxygen flow for stronger, more vigorous turf.
- ✓ A more active root system absorbs nutrients faster and more efficiently.

Tractor requirements

- ✓ Engine power minimum 45 hp.
- ✓ Hydrostatic transmission preferred.
- ✓ Creep speed (0.3 km/h) available when operating at maximum PTO power.

Two options, one machine

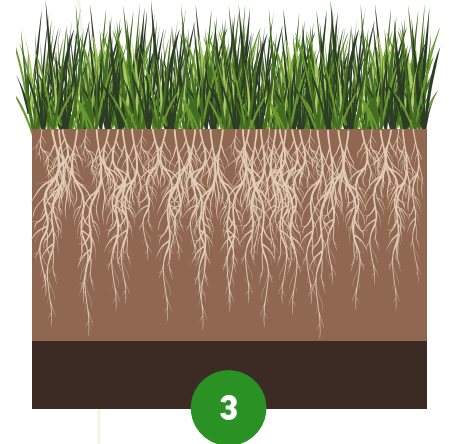
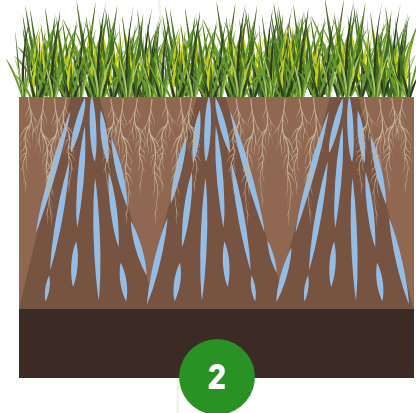
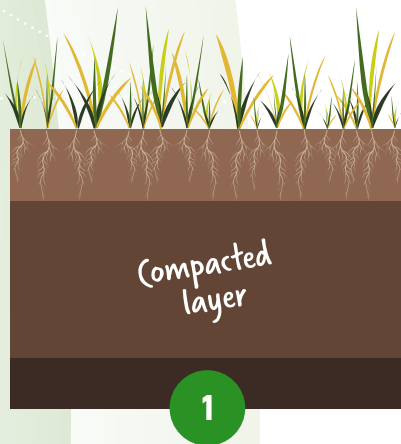
1) Water aeration

Purpose:

Breaking up compaction and enhancing aeration and infiltration, promoting root growth.

Method:

Injecting high pressurized water.



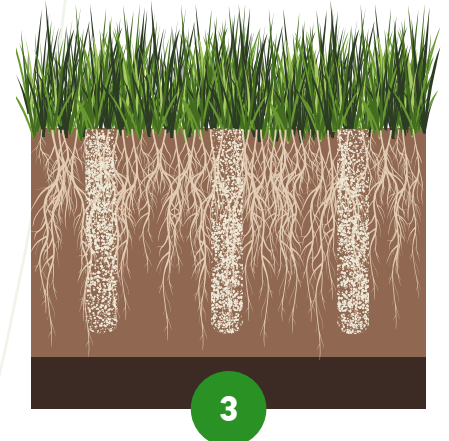
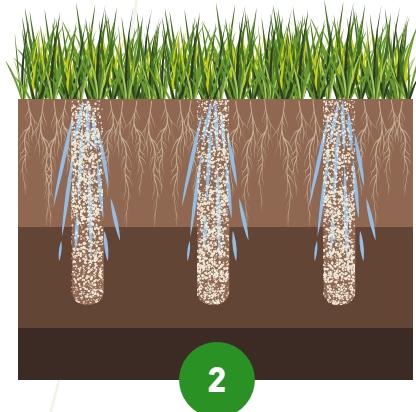
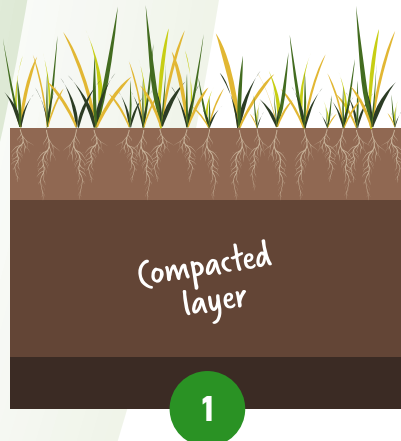
2) Sand injection

Purpose:

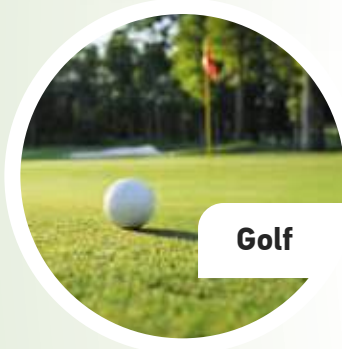
Reduce compaction, improve soil structure and create sustainable drainage channels, thereby promoting root growth.

Method:

Injection of sand using high pressurized water.



Healthy Soil, **Better Turf**



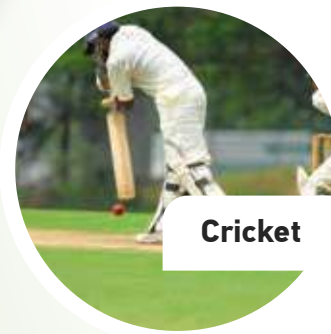
Golf



Football



Soccer



Cricket

Facts

- ✓ Up to 80.000 holes per 500 m².
- ✓ Up to 2 tons wet sand per 500 m² injected.
- ✓ Capacity 4000 to 5000 m² a day.

“The TopChangerXP delivers balanced, healthy rootzones that perform better and recover faster.”



TOPCHANGER^{XP}

Advantages

- ✓ Minimal disturbance for sports players and reduced economic impact compared to traditional methods.
- ✓ Labour efficient, requiring only 2 operators.
- ✓ The machine will operate in wet conditions.
- ✓ Long term benefits to soil health.
- ✓ Breaking down and reducing organic matter and thatch.
- ✓ Increasing infiltration rate.
- ✓ Improving surface stability.
- ✓ Can incorporate other granular profile-enhancing products into sand mixture.
- ✓ Sand injection optimizes water take up and keeps rootzone perfectly balanced.
- ✓ Creating air channels that boost oxygen flow for stronger, more vigorous turf.
- ✓ More active root system absorbs nutrients faster and more efficiently.

VGR Equipment: Dutch Innovations

VGR Equipment is a Dutch company that develops and manufactures innovative, modular machines for the sustainable maintenance of golf courses and sports fields. Our guiding principle is always "Healthy Soil Better Turf". Our innovative machines support greenkeepers and groundskeepers worldwide in creating stable, healthy, and maintenance-friendly turf surfaces.

Dedicated Support and Technical Expertise

Alongside our high-quality VGR products, we deliver first-class service. From training and dealer support to parts availability and technical backup, our team stands ready to keep your operation performing at its best.

Driven by Innovation

VGR continues to develop new technologies that set new standards in efficiency, sustainability and turf performance. We innovate with purpose—creating solutions that help you achieve superior results.

Official VGR dealer

Healthy Soil,
Better Turf

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