



## Professionals reports from practice



**Werner Müller – Head Greenkeeper,  
Golfer's Club Bad Überkingen e.V., Germany**

„I was looking for a core collector and the unit from Wiedenmann is the newest and most innovative technology on the market. Especially important for me was a system that needed no extra towing vehicle (whether with or without hydraulic system).

On testing the machine, I noticed that 30 – 40% less sand was required compared to conventional systems. I have already employed a borrowed core harvester which resulted in no essential savings in working hours.

Since less sand needed to be applied and this also can be applied before aerification, all process steps are spread out over time. This leads in total to more relaxed work. Since the grass only has to be collected with a vehicle after aerification, the evenness of the grounds has improved.

The material to be removed is less in terms of mass, and in our case can be more easily disposed. In other words, beforehand we had to find the places to be filled with cores and later reseeded again. Now we can dispose the organic material at a farmer's.“



**Jens Martens,  
Europa-Park Golfclub Breisgau e.V., Germany**

„The CORE RECYCLER from Wiedenmann is in use at our golf course. The machine works very efficiently and is easy to operate. By reusing the recycled sand, we require significantly less top-dress material. The saved work steps make the processed tracks more rapidly playable again.“

**First Warsaw Golf & Country Club Sp. z o.o., Poland**

„We use the CORE RECYCLER. The machine convinced us already during the demonstration. It is surprising time and again how carefully the cores are collected and what quantities of clean recycled material are made available once again. We save time and money. The purchase price of the CORE RECYCLER is amortised within a short time.“

## From the inventors of professional turf maintenance.

As a manufacturer of professional specialised machines, our entire passion is applied to turf. No matter whether on the golf course, in large sport stadiums around the world, or in the municipalities – the care of professionally employed lawns and turf are especially close to our heart. We have made this passion our profession, and thanks to our experience and know-how, we have also expanded to artificial turf maintenance and dirt and snow removal.

Our high-quality accessory equipment for compact tractors and municipal equipment carriers deliver complete solutions for turf regeneration as well as the collection or removal of grass and leaves. Highly-specific mowing machines, turf sweepers, sweepers for snow and dirt, snow raker blades and winter service spreading machines round off the product range and convince our customers by their efficiency and practicability. No matter what the season, no matter what the purpose – as professionals, we know what professionals need.



## CORE RECYCLER

For collecting and recycling cores

- Saves up to 40 % top-dress material
- Recycles up to 80 % of the valuable soil substrate
- Minimises the use of herbicides

Further information:

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For collecting and recycling cores

In order to ventilate the root region, to reduce the organic mass in the ground and thus sustainably improve the growth conditions of lawn roots, aerification with hollow tines is one of the important but also very time-consuming actions necessary for golf greens and driving ranges. Several different work steps are generally required to remove the punched-out cores and fill in the aeration holes with fresh sand. The unique CORE RECYCLER performs these tasks in one work step, thus reducing the aeration effort and expense to a minimum.


The advantages:




**Reliable collection of the cores**  
by fully floating cleaning head




**Optimal working speed** thanks to continuously-variable setting between 0 and 6 km/h




**Saves up to 40 % top-dress material**



**Purely mechanical disposal chain**  
by practical high dumping



**Significantly reduces the use of herbicides**

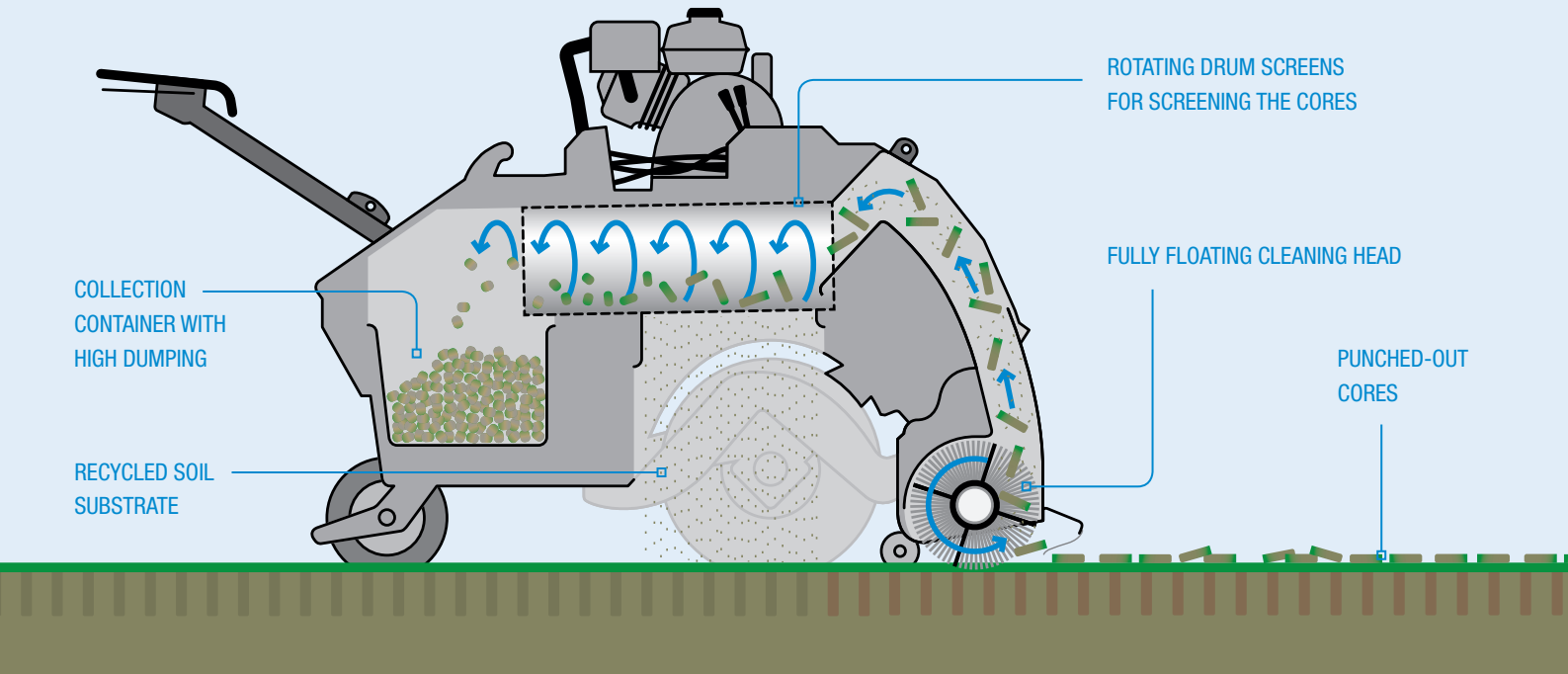


**Valuable ground substrates are recycled up to 80 %.**

Efficiency computer:

On our website [www.wiedenmann.com](http://www.wiedenmann.com), you will find an **efficiency computer** to determine the **potential cost saving** with the CORE RECYCLER for **your facility**.  
It is very possible that your investment in a new CORE RECYCLER will **already amortise itself in a very short time**.

Mode of operation



With a fully floating cleaning head, the CORE RECYCLER takes up the punched-out cores and transfers them into four rotating drum screens where the cores are sieved. The valuable soil substrate is directly recycled and uniformly returned to the soil. The organic mass such as thatch is moved into a collection container with high dumping, and thus can be simply transferred to a trailer or utility vehicle.

Since the CORE RECYCLER recycles up to 80 % of soil substrate, the quantity of valuable top-dressing materials is significantly reduced. This saves money and furthermore contributes to sustainable plant protection by preserving the valuable microorganisms in the recycled turf base layer. This help the plants to absorb nutrients and water, strengthens their immune system, and lets the processed surfaces heal faster. It also reduces the use of herbicides and makes the turf surfaces playable again more quickly. This makes ecological sense and is sustainable.

**The CORE RECYCLER is the perfect solution when the surfaces are sanded before use.** The fresh sand is directly intermixed with the valuable, already available turf base layer material. Furthermore, it is no longer necessary to use heavy top-dress machines after aerification, which significantly reduces the ground stress on the greens and driving ranges.

As a matter of course, the CORE RECYCLER can also be employed for only collection by simply switching off the separating function of the sieves by special inserts. For maintenance and cleaning work, the mesh filter insert is simply removed with tools, as easily as pulling out a drawer.

The CORE RECYCLER is a hand-guided machine driven by an internal combustion engine with a hydrostatic drive unit. The working speed is between 0–6 km/h, continuously adjustable.

TECHNICAL DATA			
Working width in cm approx.:	120	Motor:	Honda GX 390 with electric starter
Dimensions L/B/H in cm approx.:	272/178/150	Performance:	8.7 kW (11.8 PS)
Max. tare weight in kg approx.:	650	Fuel tank in L approx.:	6.1
Front tires (impeller wheels):	24x13.00-12	Collecting tank volume in L approx.:	400
Rear tyres (dual wheels):	13x5.00-6	High dumping in cm approx.:	150

Descriptions and figures are non-binding. The construction and design are subject to modifications.

STRI study

Trial to investigate the effect of using the wiedenmann CORE RECYCLER on a sand-based golf green – 2016 research

**Trial objective**  
The objective of this trial was to investigate the effect of using the CORE RECYCLER on an established annual meadow-grass/browntop bent sand-based golf green, as compared to standard hollow coring and topdressing.

**Methodology**  
The CORE RECYCLER was used to collect and recycle cores from the turf surface, following hollow tine aeration on an established sand-based green at STRI's Trial Facility in Bingley, United Kingdom. The effect of recycling of the cores was compared to an area where the cores were manually collected and removed. Following collection of the cores, the whole trial area was top dressing with pure sand (medium grade) to fill any empty tine holes and to make good surface levels. During this process, the amount of sand used to top dress each area was recorded.

The effects of recycling the cores versus conventionally collecting and removing the cores were assessed by measuring turf quality, turf colour, chlorophyll index, NDVI, percentage active bacteria and fungi, surface hardness, soil compaction and surface smoothness. Data were analysed using t-tests to establish if differences between the two treatments were statistically significant.



Preparation of the area



Aerification of the areas on 23.08.2016



Area one week after aerification



Area two weeks after aerification

- Main results**  
The main effects of the Wiedenmann CORE RECYCLER compared to conventionally collecting and removing cores were:
- Compared to the conventional aerification process, the percentage of organic mass in the soil is not increased by the recycling process.
  - Use of the CORE RECYCLER reduced top dressing inputs by on average 20 %.
  - Core Recycling did not have a significant effect on either surface smoothness or trueness.
  - There were no consistent treatment effects on penetration depth, surface hardness and volumetric soil water content.
  - Compared to conventionally collected cores, the use of the CORE RECYCLER in connection with suitable fertilizers generates a distinctly greener turf.
  - There were no consistent treatment effects on penetration depth, surface hardness and volumetric soil water content.
  - Using the CORE RECYCLER had no impact on the turf quality or the speed of the turf recovery.
  - Towards the end of a period of prolonged high intensity of infestation, the probability of a disease in turf processed with the CORE RECYCLER was only slightly higher. This is most probably due to the improved availability of nutrients and stimulation of microorganisms in the soil. It should be mentioned that no fungicides were used, as customary during turf regeneration work in the autumn.
  - The impact on diseases and colouration of the turf varied depending on the type of turf, which was expected due to the two different cultivation conditions. Where differences in susceptibility to disease or colour were observed, they were slight and could be relativized by careful turf maintenance measures.

