

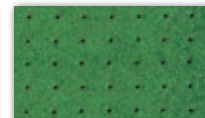
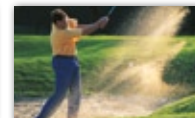
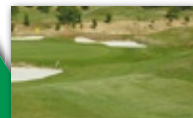


# **Wiedemann**

*Deep aeration and removal of compaction to a depth of 30 cm, central tine adjustment, central depth adjustment, integrated damping system, integrated tine mounting and dismantling system, wide range of tools and rear accessories.*



## **Greens *TERRA SPIKE*<sup>®</sup>**





## Greens **TERRA SPIKE**®

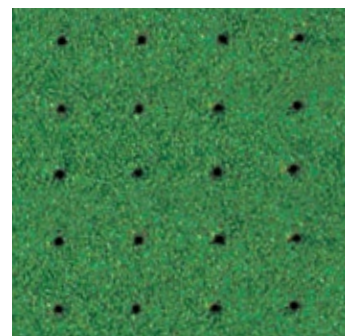
Satisfied players are your best customers – so you should achieve a maximum of quality on your turf. We will assist you.

Regular deep spiking and deep aeration is the prerequisite for a healthy growth of roots. After decompacting the ground, the roots can penetrate deeper into the ground and thus will make better use of water and nutrients. The water and air circulation will be improved, thatch will be removed and the shearing strength will be increased.

Often there is only very little time available for performing this job which is especially important for the quality of your turf. Therefore, a high productivity with both an excellent quality of work and an easy operation are important criteria for you when selecting the machine to be used? Well, the **Greens TERRA SPIKE**® is the ideal machine for you.

The **Greens TERRA SPIKE**® is predominantly operated on golf greens, but also on other fine turfs. Prior to developing the **Greens TERRA SPIKE**® the engineers from Wiedenmann listened carefully to the green keepers and groundsman and made their requirements the basis for the conception of the **Greens TERRA SPIKE**®. Using most sophisticated 3D CAD technology the requirements of these practical users were realized in the **Greens TERRA SPIKE**®. Technical reliability and a long service life of the machine were further criteria during the development stage. The individual components were selected and tested carefully. After completing the development stage the **Greens TERRA SPIKE**® had to undergo long test hours in extreme conditions to proof its reliability and worth. Another important request of the users was the requirement of a multiple utility of the **Greens TERRA SPIKE**®. This requirement has been met with the **System TERRA SPIKE**®. For the application along with the **Greens TERRA SPIKE**® there is a wide range of tools and rear attachments available, allowing to expand the **Greens TERRA SPIKE**® into a multi-functional machine which can be operated over the whole year.

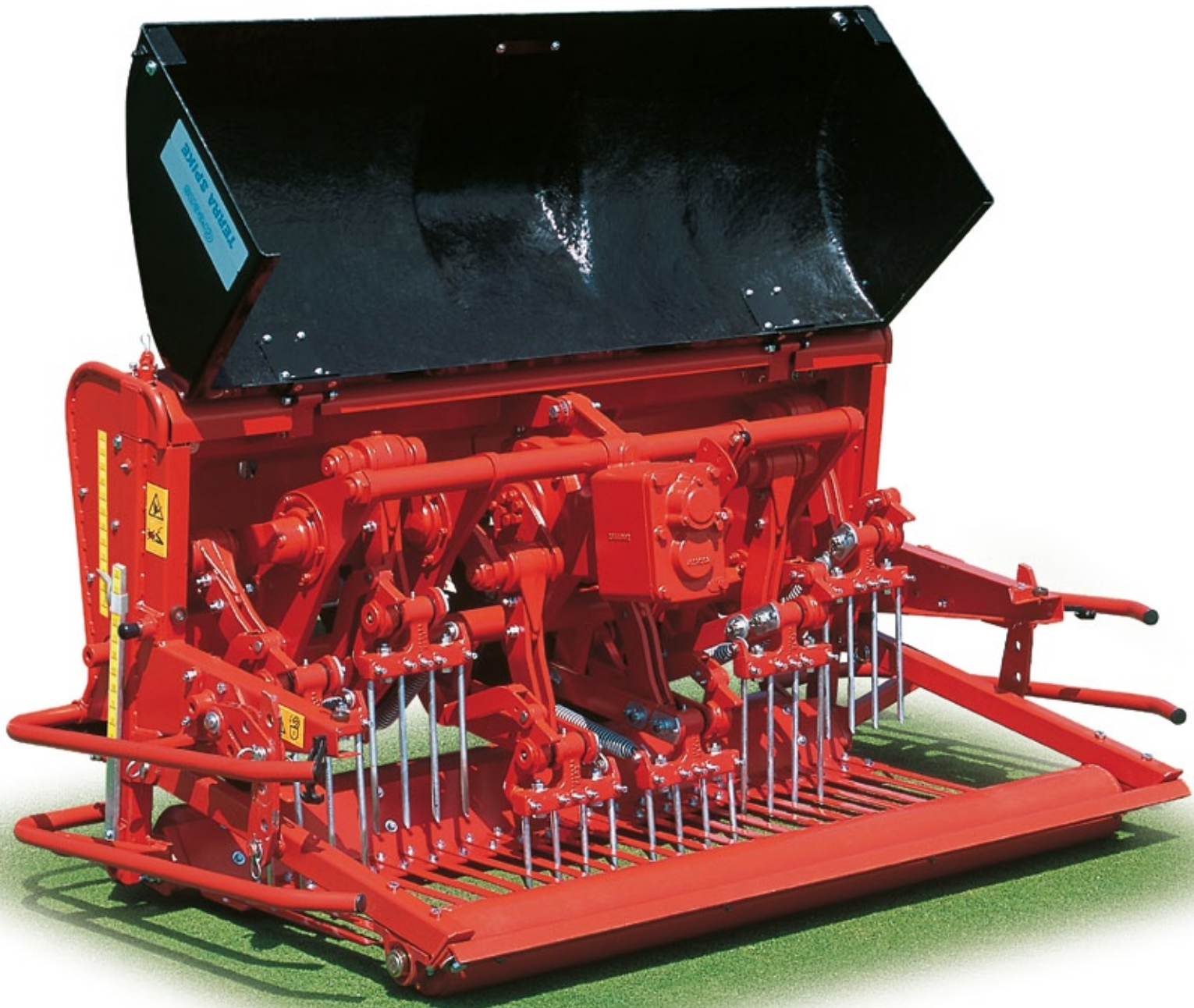
This brochure gives you detailed information about the various options for operating and applying the **Greens TERRA SPIKE**®.



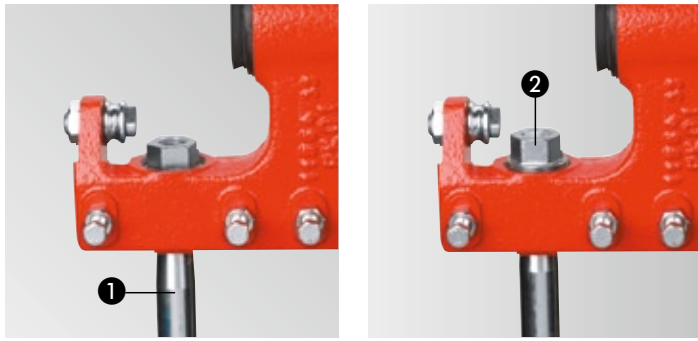
## ■ **The new dimension of deep aeration / decompaction**

**Greens TERRA SPIKE®** – the new dimension of deep aeration which treats your turf gently. When you have mounted the **Greens TERRA SPIKE®** to your tractor and have lifted it for the first time, you will be surprised at how easy it works. The reason for that is the especially compact direct attachment of the **Greens TERRA SPIKE®**, which reduces the necessary lifting power considerably. Find out how quick and easily both the working depth and the tine entry angle can be adjusted using the **QuickSet**. The wide adjustment range of the tine entry angle from 90°

up to 65°, which is adjusted centrally through a crank, allows the optimal adjustment of the spiking intensity to the respective ground conditions and the extent of soil compactions. The robust 3-speed gear allows to set the desired hole spacing precisely synchronized to the respective driving speed. The fact that a firm fit of the tine in the tine holder and still a quick exchange of tines is no contradiction is demonstrated by the **QuickFit**. This technical detail solution will convince you as well.







### QuickFit

The integrated system for mounting and demounting tines allows the quick and trouble-free mounting of the conical 20 mm and 25 mm tines.

#### Mounting of Tines

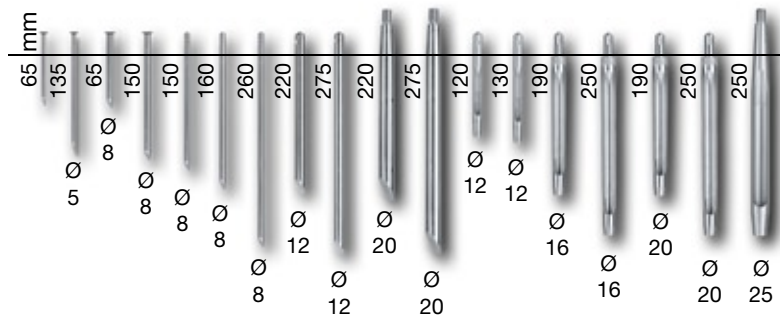
- 1 Hand-tighten the tine from below into the tine holder.
- 2 Screw the lock nut tight from above. The tine is now safely tightened in the conical tine holder.

#### Dismounting

- 2 Turn the lock nut in the opposite direction, which will press the tine out of the cone.
- 1 Afterwards, turn out the tine manually.

### Tine programm for every application

A complete range of solid tines with diameters of 5, 8, 12 and 20 mm, as well as hollow tines with diameters of 12, 16, 20 and 25 mm, let the **Greens TERRA SPIKE®** master every job. Using the 5 mm needle tines on **Greens TERRA SPIKE®** 1,35 m you can achieve up to 5,000 holes per m<sup>2</sup>, whereas you'll achieve up to 3,700 holes m<sup>2</sup> with **Greens TERRA SPIKE®** 1,60 m. These are optimal prerequisites for light aeration or for preparing the ground for overseeding.



### Change speed gear

Extremely robust change-speed gear allows to set the desired working depth in accordance with the operating speed and number of tines.



### Tine holders

The robust tine holders with largely dimensioned bearings and integrated grease reservoirs even withstand extreme conditions, such as impact stresses, dirt and sand.

### QuickSet

Central, tool-free and quick adjustment of tine entry angle (90 up to 65°) and working depth. By means of just one central crank you can easily and quickly make these adjustments which are important for the working quality; regardless of whichever tine length you have mounted or whether the tine is new or used.

#### 1 Central depth adjustment

You'll be surprised at how quickly and easily the working depth of the **Greens TERRA SPIKE®** can be set. Transfer the length of the tines you have mounted to the adjustable depth pointer, then set the desired working depth by means of the central depth adjustment crank. Finished. There's no quicker and easier way.

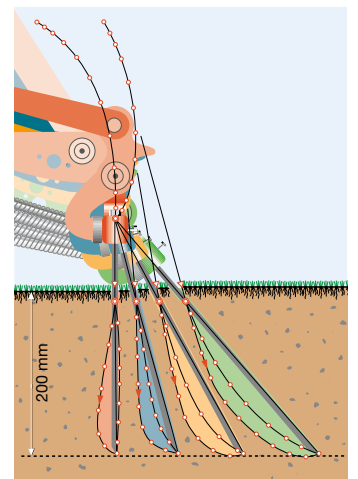
#### 2 Central adjustment of angle

Crank with integrated **Power Pack** for the central, quick and tool-free adjustment of the tine entry angle.



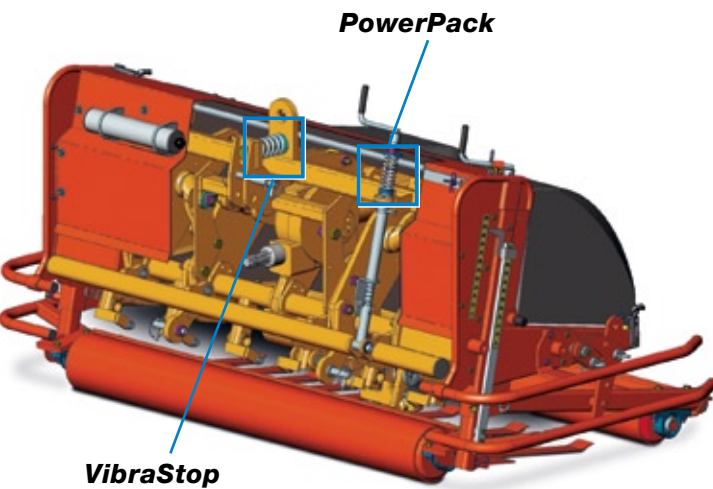
Achieve different spiking intensities by adjusting the entry angle of the tines.

Entry angle	Angle of horizontal swing	Motion (mm)	Depth (mm)
90°	6°	28	200
85°	13°	50	200
80°	19°	65	200
75°	25°	70	200



## VibraStop / PowerPack

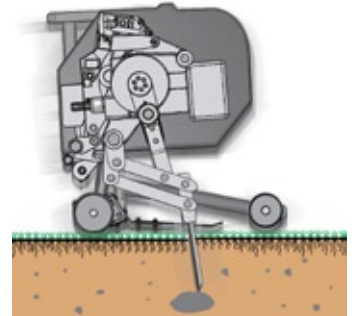
Deep aerification and loosening is tough work, both for man and machine. If, for example, a tine strikes a stone during operation, the tine must lift the entire machine within a fraction of a second in order to overcome this obstacle. The jolts and vibrations that inevitably occur when this happens adversely affect not only the deep aerifier, but also the tractor and the tractor driver in the form of damaging jolts and vibrations. Consequently the quality of work suffers.



To eliminate this fundamental drawback, Wiedenmann has developed two independently operating, exclusive damping systems - **VibraStop** and **PowerPack**. Together, they perfectly absorb jolts and vibrations caused by extreme compaction or stones. The result is unrivalled smoothness of running with a minimum of strain on the driver, tractor, deep aerifier and tools.

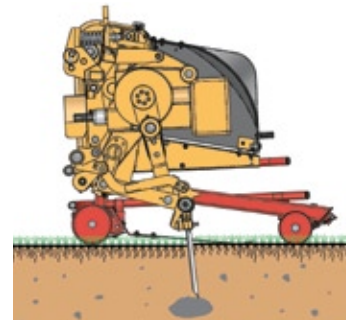
### Other machines on the market

The tine strikes an obstacle in the soil. The resulting jolt is transmitted undamped to the deep aerifier, the tractor and the tractor driver with damaging effect.



### Greens TERRA SPIKE®

The tine strikes the same obstacle in the soil. The **VibraStop** and **PowerPack** damping systems are instantly activated, and the resulting jolt is absorbed. This way, the strain on the deep aerifier and tractor is reduced to an almost negligible level.



## System TERRA SPIKE®

Numerous satisfied **Greens TERRA SPIKE®** customers expressed their desire of applying the **Greens TERRA SPIKE®** even more often. Our engineers fulfilled this desire by developing various rear attachments. On the basis of the **Greens TERRA SPIKE®** the machine can be expanded into

a multi-functional machine by means of various tines and rear attachments, allowing an all-year operation for different applications. The economic efficiency achieved by reducing the operations is unbeatable. And your turf will reward you for the lower number of passes by a healthy growth.



### Hydr. rotary brush

If the optional hydraulic rotary brush is used instead of the rear roller, the turf is first top-dressed and then deep tined while the top-dress material is brushed into the turf. This reduces the number of passes.

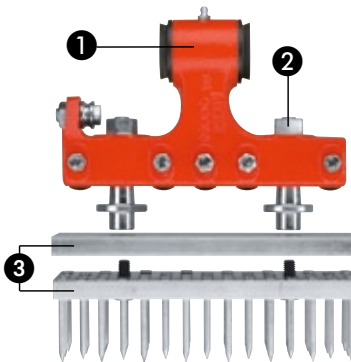


### Swathboard

When using hollow tines the cores can be deposited in rows by means of the optional swathboard. This makes the subsequent collection of the cores much easier.

## Multi-Tine Holders

In addition to the wide range of tines Wiedenmann offers various multi-tine holders to ensure an even higher operational efficiency. Select the appropriate type from 3 different multi-tine holders. The „Nail Board“ multi-tine holder for the 5 mm and 8 mm solid tines (8 mm for G6/160 only) with a tine length of 65, 135 or 220 mm allows you to mount 73, 38, 24 or 8 tines. In the multi-tine holder for 8 mm solid tines you can mount 8 tines, with the two tine rows being placed offset to each other to ensure a narrow hole spacing. In the 3rd multi-tine holder you can mount either 8 pieces of 12 mm solid tines, or 12 mm, 16 mm, or 20 mm hollow tines. With this multi-tine holder the two tine rows are exactly placed after one another, so that they can also be used in connection with a turf retainer. The possible running speed and the related productivity are significantly increased by this.



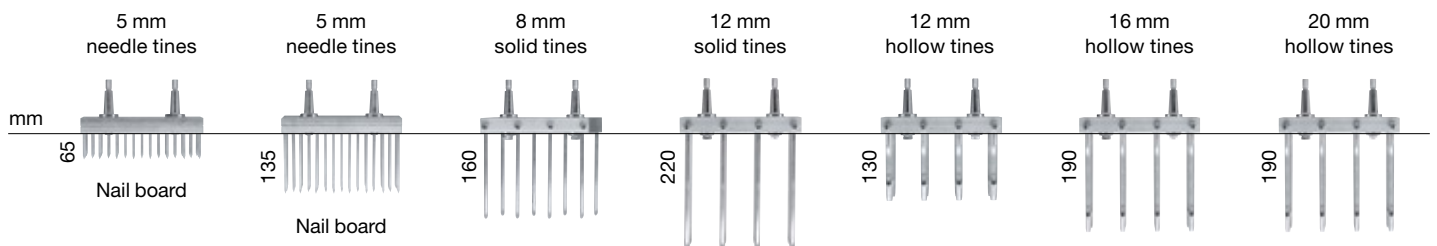
### 1 Tine Holder

### 2 QuickFit:

The multi-tine holders are easily and quickly mounted using the tine mounting and demounting system of the tine holder.

### 3 Nail Board:

For exchanging tines the nail board is released through two screws, the tines are exchanged and the board is mounted again. Quick and easy.



TECHNICAL DATA	G6/135	G6/160
Working width in cm:	135	160
Weight in kg (approx.):	585	675
Working depth in mm with solid/hollow tines up to:	300 / 200	300 / 200
Dimensions L / W / H in cm approx. :	107 / 182 / 134	107 / 206 / 134
Mounting:	rear three point cat. I	
Drive:	PTO shaft and 3-speed gearbox	
QuickSet / QuickFit / PowerPack / VibraStop:	standard	standard
Implements:	Solid tines 5, 8, 12, 20 mm / hollow tines 12, 16, 20, 25 mm	
Rear roller:	standard	standard
Turf retainer:	optional	optional
Swathboard:	optional	optional
Hydraulic rotary brush:	optional	optional
Additional weights:	optional	optional
Multi-tine holder for 5 mm, 8 mm and 12 mm solid tines:	optional	optional
Multi-tine holder for 12 mm, 16 mm and 20 mm hollow tines:	optional	optional
<b>Area coverage in continuous operation in m<sup>2</sup> per hour</b>		
At 2.0 km/h; square hole spacing 110 mm; approx.:	78 holes/m <sup>2</sup> = 2700 m <sup>2</sup> /h	-
At 2.4 km/h; square hole spacing 130 mm; approx.:	-	54 holes/m <sup>2</sup> = 2840 m <sup>2</sup> /h
At 1.0 km/h; square hole spacing 55 mm; approx.:	312 holes/m <sup>2</sup> = 1350 m <sup>2</sup> /h	-
At 1.2 km/h; square hole spacing 65 mm; approx.:	-	216 holes/m <sup>2</sup> = 1920 m <sup>2</sup> /h

Descriptions and illustrations are non-binding. We reserve the right to modify the construction and design.

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