



TERRA SPIKE® XP

For deep aeration and removal of compaction to a depth of 16"

- Central tine adjustment and central depth adjustment
- Integrated absorption system
- Integrated tine mounting and removal system
- Complete line of tools and rear accessories

For deep aeration and removal of compaction to a depth of 16"

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

Regular deep spiking and deep aeration are necessary for healthy root growth. After decompacting the ground, the roots can penetrate deeper into the ground and make better use of water and nutrients. The water and air circulation are improved, thatch is removed, and shear strength is increased.

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

The TERRA SPIKE® XP is operated on golf greens, fairways, and athletic fields. Prior to developing the TERRA SPIKE® XP the engineers from Wiedenmann listened carefully to superintendents and groundskeepers and made their recommendations the basis for the conception of the TERRA SPIKE® XP. Using the most sophisticated 3D CAD technology, the requirements of these practical users were realized in the TERRA SPIKE® XP. Technical reliability and long service life of the machine were further criteria during the development stage. Individual components were selected and tested carefully. After completing the development stage, the TERRA SPIKE® XP had to undergo a long testing stage, proving in tough field operation that it meets all requirements.

Another important request of the users was to have multiple uses for the TERRA SPIKE® XP. This requirement has been met with the System TERRA SPIKE®. A wide range of tools and rear attachments are available for the expansion of the TERRA SPIKE® XP into a multi-functional machine that can be operated throughout the year.

Quicker – Easier – More Efficient

TERRA SPIKE® XP – the new dimension of deep aeration that treats your turf gently. When you have mounted the TERRA SPIKE® XP on your tractor and have lifted it for the first time, you will be surprised at how easily it works. The compact direct attachment of the TERRA SPIKE® XP considerably reduces the necessary lifting power. Find out how quickly and easily both the working depth and the tine entry angle can be adjusted by using the QuickSet. The wide adjustment range of the tine entry angle from 90° 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 compaction. The 3-speed gearbox allows you to precisely set the desired hole spacing according to the respective driving speed. A solid fit of the tine in the tine holder and a quick exchange of tines is demonstrated by the QuickFit.

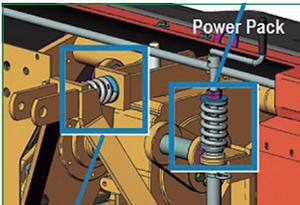
The advantages:



Individual adjustment
of the loosening angle to ground conditions, tool-free from 90° to 65°.



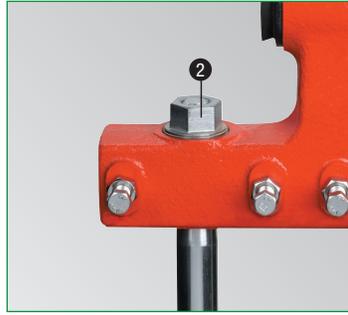
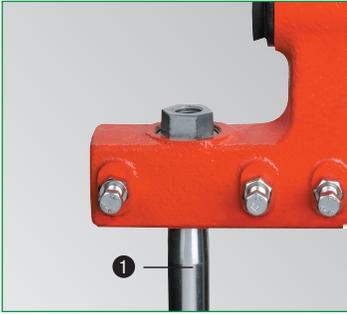
Fast tine replacement
with QuickFit, the simple tine fitting and removal system.



Protection against damage
VibraStop/PowerPack form an efficient damping system to prevent jolting and vibration.



Tool-free adjustment
of the tine angle and the working depth with the QuickSet feature.



QuickFit

The integrated system for mounting and removal of tines allows quick and trouble-free mounting of the conical 3/4" and 1" inch tines.

Mounting of tines

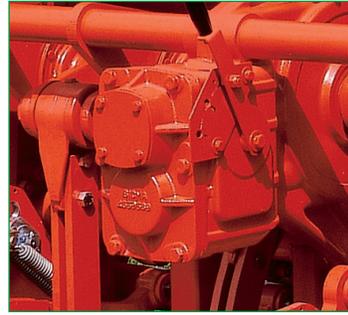
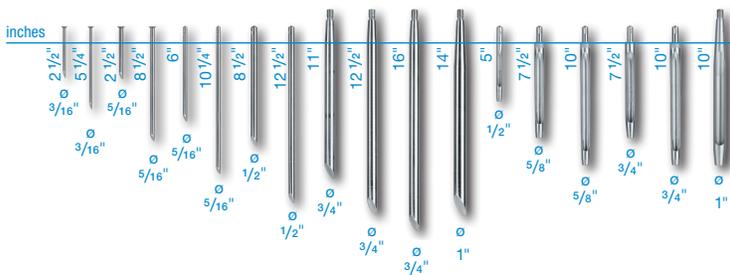
- 1 Hand tighten the tine from below into the tine holder.
- 2 Screw the lock nut tight from above. The tine is now safely tightened in the conical tine holder.

Removal

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

Tine Program for Every Application

A complete range of solid tines with diameters of 3/16", 5/16", 1/2", 3/4" and 1", as well as hollow tines with diameters of 1/2", 5/8", 3/4" and 1", let the TERRA SPIKE® XP master every job. Using the 3/16" needle tines you can achieve up to 344 holes/sq.ft. This is optimal for light aeration or for preparing the ground for overseeding.



Three speed gearbox

A heavy duty 3 speed gearbox allows you to set the desired hole count in accordance with the operating speed and number of tines.



Tine holders

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

QuickSet

Central, tool-free, and quick adjustment of tine entry angle (90° to 65°) and working depth. By means of just one central crank you can easily and quickly make adjustments which are important for working quality, regardless of tine length or whether the tine is new or used. If desired, the working depth can also be adjusted hydraulically from the driver's seat. In case of frequently changing ground conditions this allows the driver to adjust the working depth of the TERRA SPIKE® XP quickly during the operation.

1 Central depth adjustment

You'll be surprised at how quickly and easily the working depth of the TERRA SPIKE® XP 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. There's no quicker and easier way.

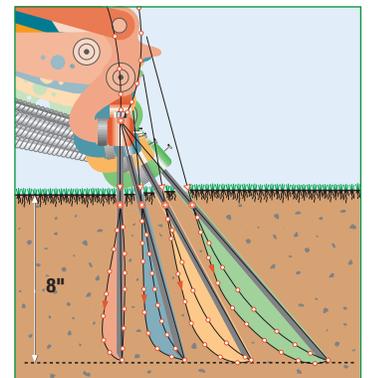


2 Central adjustment of angle

Crank with integrated PowerPack for the central, quick, and tool-free, adjustment of the entry angle of the tines.

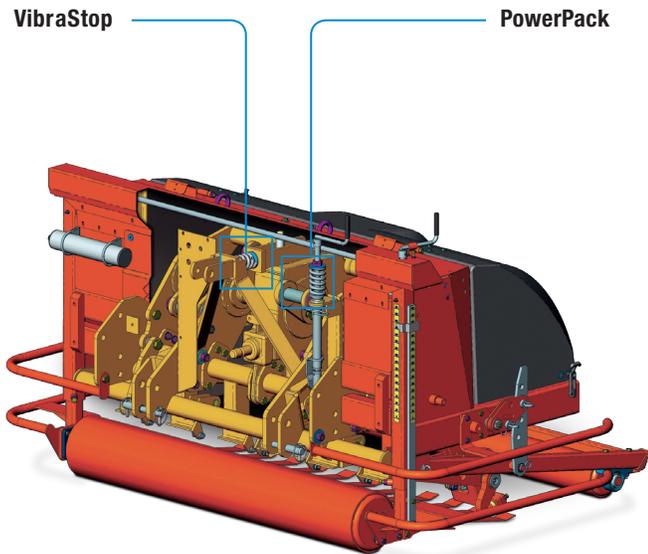
Achieve different spiking intensities by adjusting the entry angle of the tines.

Entry angle	Angle of horizontal swing	Motion inches	Depth inches
90°	6°	1"	8"
85°	13°	2"	8"
80°	19°	2 1/2"	8"
75°	25°	2 3/4"	8"



VibraStop / PowerPack

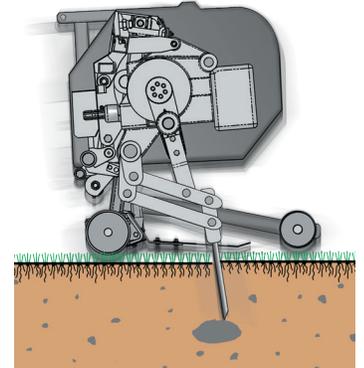
Deep aerification and loosening is tough work, both for man and machine. If, for example, a tine makes contact with a stone during operation, the tine must lift the entire machine within a fraction of a second in order to overcome this obstacle. The jolts and vibrations that inevitably occur when this 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 all jolts and vibrations caused by extreme compaction or stones. The result is unrivaled operating smoothness with minimal strain on the driver, tractor, deep aerifier, and tools.

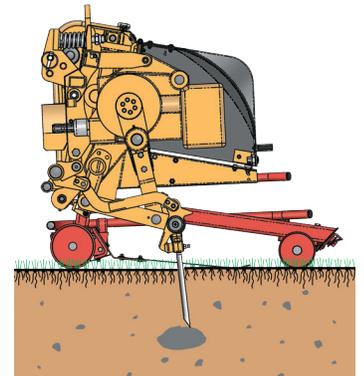
Other machines on the market

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



TERRA SPIKE® XP

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



System TERRA SPIKE®

Numerous satisfied TERRA SPIKE® XP customers expressed their desire to use the TERRA SPIKE® XP more often. Our engineers fulfilled this request by developing various rear attachments. On the basis of the TERRA SPIKE® XP the machine can be expanded into a multi-functional unit by means of various tools and rear attachments, allowing year round operation for different jobs. The economic efficiency achieved by reducing the operations is unbeatable.

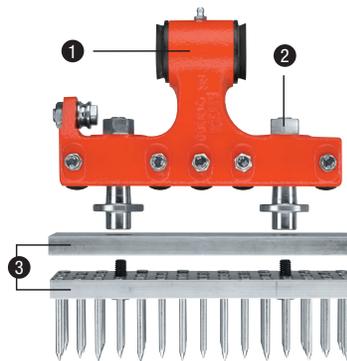
Windrow

When using hollow tines you can place the cores in the row in a single operation with the optional windrow. This makes the subsequent collection of the cores much easier.



Multi-tine holders

In addition to a wide range of tines, Wiedemann offers various multi-tine holders to ensure high operational efficiency. Select the appropriate type from 3 different multi-tine holders. The nail board multi-tine holder for the 3/16" and 5/16" solid tines with a tine length of 2 1/2", 5 1/4", or 8 1/2" allows you to mount 8, 24, 38, or 72 tines. In the multi-tine holder for 5/16" solid tines you can mount 8 tines, with the two tine rows being placed offset to each other to ensure narrow hole spacing. In the 3rd multi-tine holder you can mount either 8 pieces of 1/2" solid tines, or 1/2", 5/8", or 3/4" hollow tines. With this multi-tine holder the two tine rows are placed precisely after one another, so that they can also be used in connection with a turf retainer. This significantly increases the potential running speed and related productivity.



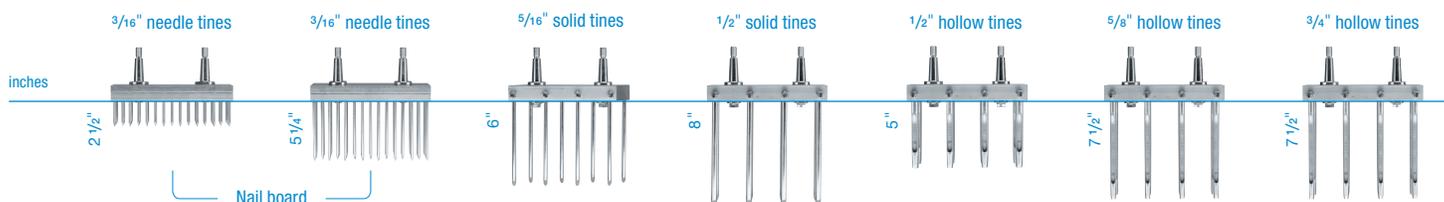
1 Tine holder

2 QuickFit:

The multi-tine holders are easily and quickly mounted using the tine mounting and removal 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.

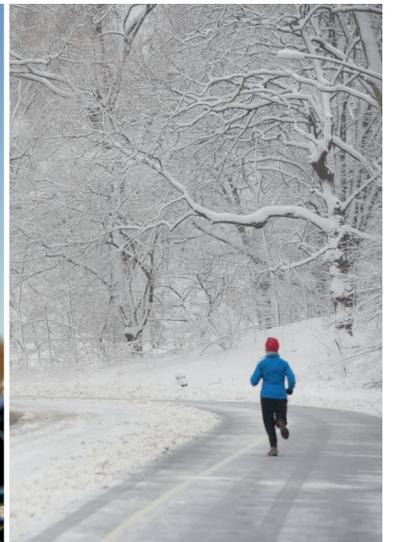


TECHNICAL DATA	TERRA SPIKE XP 6	TERRA SPIKE XP 8
Working width in inches:	63"	83"
Weight in lbs. (app.):	2,182	2,690
Working depth in inches with solid tines / hollow tines up to:	16" / 10"	16" / 10"
Dimensions L / W / H in inches (app.):	52" / 85" / 64"	52" / 104" / 64"
Mounting:	rear - 3-point cat. I + II	
Drive:	p.t.o. and 3 speed gear box	
QuickSet / QuickFit / PowerPack / VibraStop:	standard	standard
Tools:	solid tines 3/16" , 5/16" , 1/2" , 3/4" , 1" / hollow tines 1/2" , 5/8" , 3/4" , 1"	
Rear roller:	standard	standard
Turf retainer:	optional	optional
Hydraulic depth adjustment:	optional	optional
Windrow:	optional	optional
Hydraulic rotary brush:	optional	optional
Set of ballast weights:	optional	optional
Multi-tine holders for solid tines of 3/16", 5/16" and 1/2":	optional	optional
Multi-tine holders for hollow tines of 1/2", 5/8" and 3/4":	optional	optional
Productivity with permanent operation in sq.ft. per hour with 3/4" solid tines and a square hole spacing of 5":	@ .95 mph 5 holes/sq.ft. = 25,833 sq.ft./hr	@ .95 mph 5 holes/sq.ft. = 33,906 sq.ft./hr
Productivity with permanent operation in sq.ft. per hour with 3/4" hollow tines and a square hole spacing of 2 1/2":	@ .47 mph 20 holes/sq.ft. = 12,917 sq.ft./hr	@ .47 mph 20 holes/sq.ft. = 16,953 sq.ft./hr

From the inventors of professional turf maintenance equipment.

As manufacturers of professional machines, we are devoted to turf. No matter if it's on the golf course, in the large sports arenas of the world, or in local municipalities, the care of professional turf is something we hold very dear. We have made this passion our profession, and thanks to our experience and

know-how, we have been able to expand our expertise to include artificial turf maintenance. Our high quality equipment for compact tractors provides a complete solution for turf regeneration and the collection or removal of grass and leaves.



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