



TERRA SPIKE® XF / XD

For deep aeration and removal of compaction up to a depth of 10½"

- Central tine adjustment and depth adjustment
- Integrated damping system
- Integrated tine fitting and removal system
- Wide range of tines and rear accessories

For deep aeration and removal of compaction up to a depth of 10 1/2"

Time is money. This principle applies now more than ever when it comes to professional turf care. It doesn't matter whether you are maintaining athletic fields or golf courses, the time available to you is becoming increasingly limited, while the players place ever more exacting demands on the quality of the turf. Regular decompaction and aeration are the most important requirements for healthy root growth. Breaking up the compacted soil allows the roots to penetrate deeper into the ground and make better use of water and nutrients. The flow of water and the air balance are improved, thatch is removed, and the shear strength is increased. In the past, this maintenance work used to be, in spite of all the technical innovations, time consuming work. Not any more. The new generation of TERRA SPIKE® XF and TERRA SPIKE® XD deep aerators by Wiedenmann has revolutionized turf care and set new standards for speed, productivity, and work quality. Aerate and decompact your turf up to 10 1/2 inches deep at a speed of up to 3.5 mph.

Save up to 60% of the time it used to take you to perform this maintenance job. TERRA SPIKE® XF and TERRA SPIKE® XD – the revolution in deep aeration.

The revolution

The high productivity of the TERRA SPIKE® XF / XD will convince you. Decompact and aerate your turf up to 10 1/2" deep at a speed of almost 3.72 mph with hole spacings of 7 1/2". Even square hole spacing of 2 1/2" or 5" is achieved at forward speeds of 1.2 or 2.4 mph. This means more area coverage per hour and considerably less interruption of play. Your players will thank you. You'll be surprised at how quickly and easily both the working depth and the tine entry angle can be adjusted by the Quick-Set. The wide adjustment range of the tine entry angle from 90° to 65°, which can be regulated centrally by a crank, allows you to ideally adapt the deep tining intensity to the prevailing ground conditions and degree of compaction. The exclusive TwinDrive can be equipped with different transmission ratios. This allows the crankshaft speed to be ideally adjusted to the tractor's engine power.

The advantages:



Simple working depth adjustment
Tool-free with hand crank.



Absorption of jolts and vibration
The VibraStop damping system minimizes the vibrations on driver, machine, and tools.



The turf surface is protected
with the optional turf retainer that prevents damage to poorly rooted turf.



Unrivaled smooth operation
as the computer-optimized crankshaft calculates precise counterweights.

Mode of operation:



TwinDrive
The continuous crankshaft is driven on both sides by "elastic" ribbed V-belts. The maintenance free drive is encapsulated and dust and dirt proof.



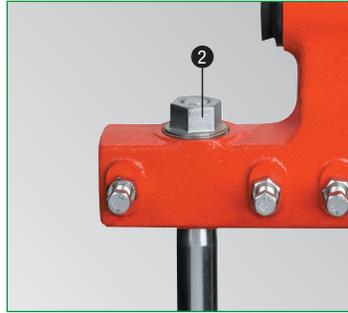
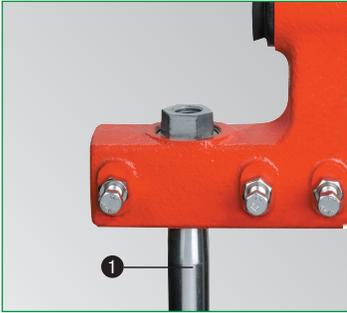
Crankshaft
The extremely sturdy, computer optimized crankshaft runs on large-sized ball bearings. Precisely calculated counterweights give the TERRA SPIKE® XF / XD unrivaled smooth operation.



Turf retainer
The optional turf retainer prevents damage to shallow rooted turf.



Depth adjustment
The working depth of the TERRA SPIKE® XF / XD can be adjusted easily and without tools by using a manually operated crank. As an option, the working depth can be set hydraulically from the



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.

QuickSet

Central and quick adjustment of the tine entry angle (90° to 65°) and working depth without need for tools. With only one central crank, you can easily and quickly make these settings which are so important for the quality of your work – regardless of the tine length you have fitted 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 TERRA SPIKE® XF / XD can be adjusted. First transfer the length of the fitted tine to the moveable pointer. Then set the desired working depth using the central depth adjusting crank. Ready. It can't get any quicker or easier.

2 Central adjustment of angle

Crank with integrated PowerPack for the central and quick adjustment of the tine entry angle without the need for tools.



Tine holders

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

Removal

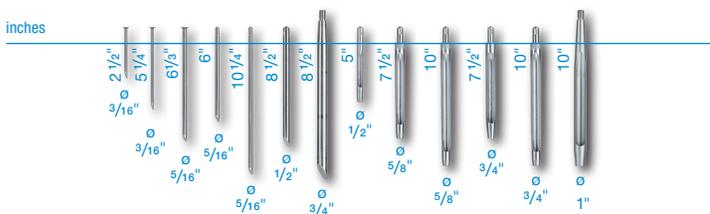
- 2 Turn the lock nut in the opposite direction, which will push the tine out of the cone.
- 1 Afterwards, unscrew the tine manually.



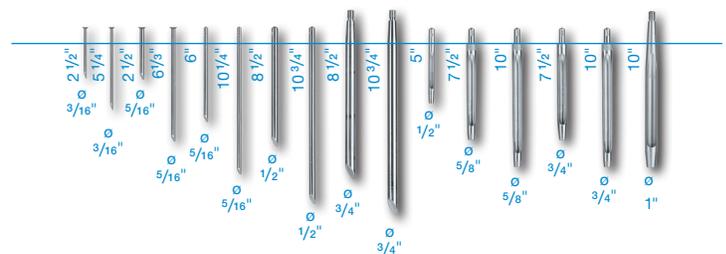
Range of tines

TERRA SPIKE® XF and TERRA SPIKE® XD can manage any task thanks to a complete range of solid tines with diameters of 3/16", 5/16", 1/2", and 3/4", as well as hollow tines with diameters of 1/2", 5/8", 3/4", and 1".

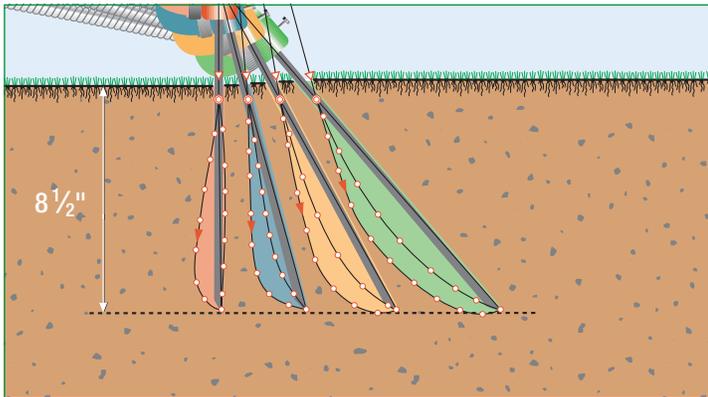
TERRA SPIKE® XF



TERRA SPIKE® XD



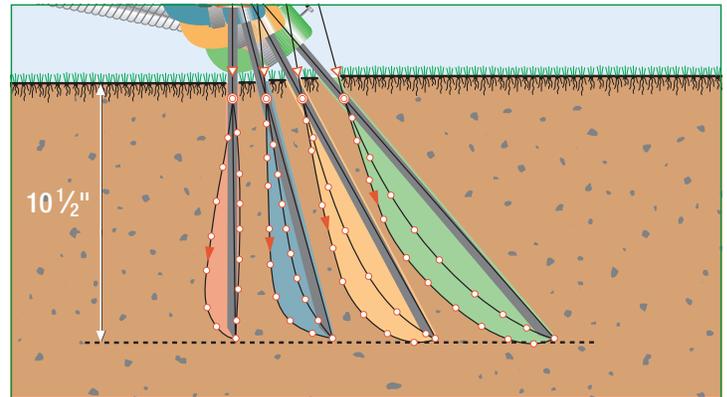
TERRA SPIKE® XF



Entry Angle	Angle of horizontal swing	Motion (inches)	Depth (inches)
90°	3°	1/2"	8 1/2"
85°	15°	3/4"	7 1/2"
80°	30°	7/8"	6 1/2"
75°	40°	1"	5"

Different spiking intensity is achieved by adjusting the tine entry angle.

TERRA SPIKE® XD



Entry Angle	Angle of horizontal swing	Motion (inches)	Depth (inches)
90°	14°	1 1/2"	10 1/2"
85°	22°	1 3/4"	8 3/4"
80°	28°	1 3/4"	7 3/4"
75°	31°	1 6/9"	6 1/3"

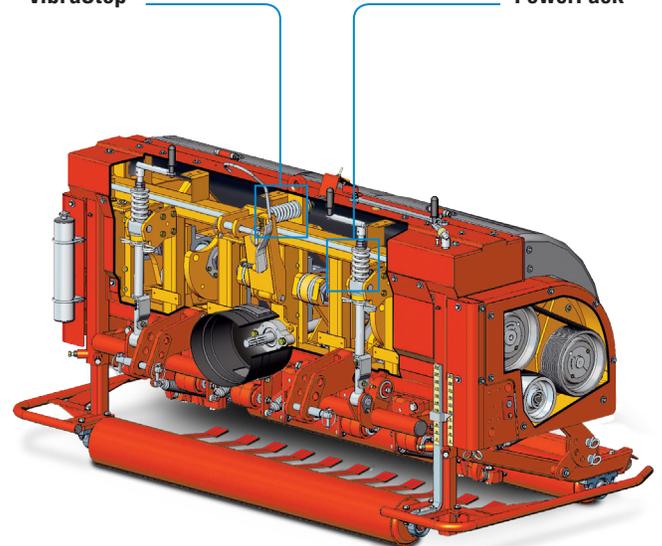
VibraStop / PowerPack

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.

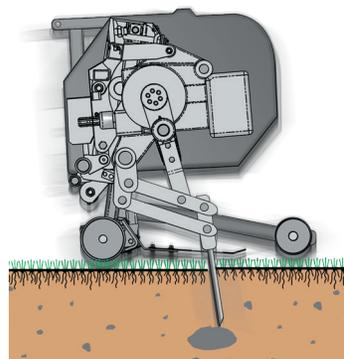
VibraStop

PowerPack



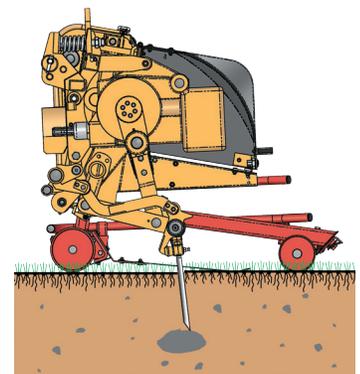
Other machines on the market

The tine strikes an obstacle in the soil. The resulting impact is transmitted to the deep aerator, the tractor, and the tractor driver with all the negative consequences.



TERRA SPIKE® XF/XD

The tine strikes the same obstacle in the soil. The VibraStop and PowerPack damping systems are activated instantly and the resulting impact is absorbed. This way, the stress on the deep aerator and tractor is reduced almost completely.



Multi-tine holders

Solid tines 3/16" x 2 1/2", 3/16" x 5 1/4", 5/16" x 2 1/2", or 5/16" x 6" are mounted in the nail board multi-tine holder. 8, 16, or 24 tines can be mounted, depending on the task and the required hole pattern. The "sandwich construction" of the nail board allows quick and easy tine replacement.

Tools

Every time you cross the turf, it causes compaction and hinders the turf's ability to grow. Reduce the number of crossings by combining the TERRA SPIKE® XF / XD with the optional rear accessories. Use the optional nail board to increase the number of holes per square yard and to intensify your maintenance efforts. TERRA SPIKE® XF / XD: there isn't a more efficient way to care for your turf.

Windrow

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

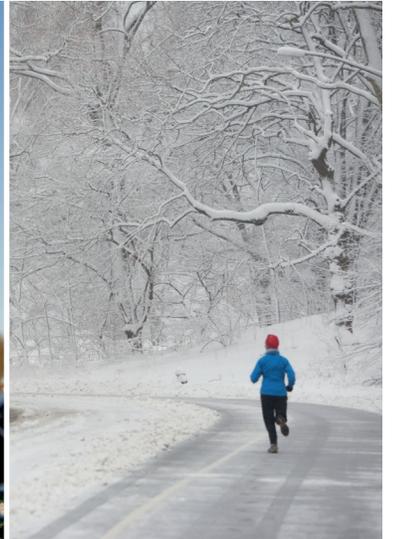


TECHNICAL DATA	TERRA SPIKE XF			TERRA SPIKE XD				
Model:	XF 6		XF 8		XD 6		XD 8	
Working width in inches:	63"		83"		63"		83"	
Weight in lbs. (approx.):	2359		2810		2480		2965	
Maximum working depth in inches:	8 ½"		8 ½"		10 ½"		10 ½"	
Dimensions L / W / H in inches (approx.):	53" / 85" / 48"		53" / 104" / 48"		55" / 85" / 48"		55" / 104" / 48"	
Mounting:	Rear three-point cat. I and II				Rear three-point cat. I and II			
QuickSet / QuickFit / PowerPack / VibraStop:	standard				standard			
Minimum tractor engine (recommended):	32 HP		42 HP		32 HP		42 HP	
Crankshaft speed:	345 RPM	410 RPM	485 RPM		345 RPM	410 RPM	345 RPM	410 RPM
Maximum admissible tractor engine power:	60 HP	70 HP	80 HP		75 HP	85 HP	85 HP	95 HP
Minimum tractor lifting capacity with standard attachment in lbs.:	3125		3800		3125		3800	
Tractor PTO speed:	540 RPM				540 RPM			
Solid tines in inches:	3/16", 5/16", 7/16", 1/2", 5/8", 3/4", 7/8"				3/16", 5/16", 7/16", 1/2", 5/8", 3/4", 7/8"			
Coring tines:	1/2", 5/8", 3/4", 1"				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			
Multi-tine holder for 3/16" and 5/16" solid tines:	optional				optional			
Area coverage in continuous operation in square feet per hour at a crankshaft speed of:								
345 RPM; at 0.8 mph; square hole spacing 2 ½"; (approx.):	22604 sq.ft./hr		30139 sq.ft./hr		22604 sq.ft./hr		30139 sq.ft./hr	
345 RPM; at 1.7 mph; square hole spacing 5"; (approx.):	45208 sq.ft./hr		60278 sq.ft./hr		45208 sq.ft./hr		60278 sq.ft./hr	
345 RPM; at 2.5 mph; square hole spacing 7 ½"; (approx.):	67813 sq.ft./hr		90417 sq.ft./hr		67813 sq.ft./hr		90417 sq.ft./hr	
410 RPM; at 1.0 mph; square hole spacing 2 ½"; (approx.):	26910 sq.ft./hr		36597 sq.ft./hr		26910 sq.ft./hr		36597 sq.ft./hr	
410 RPM; at 2.0 mph; square hole spacing 5"; (approx.):	53820 sq.ft./hr		72118 sq.ft./hr		53820 sq.ft./hr		72118 sq.ft./hr	
410 RPM; at 3.0 mph; square hole spacing 7 ½"; (approx.):	80729 sq.ft./hr		107639 sq.ft./hr		80729 sq.ft./hr		107639 sq.ft./hr	
485 RPM; at 1.2 mph; square hole spacing 2 ½"; (approx.):	32292 sq.ft./hr		43056 sq.ft./hr		-		-	
485 RPM; at 2.35 mph; square hole spacing 5"; (approx.):	63507 sq.ft./hr		85035 sq.ft./hr		-		-	
485 RPM; at 3.55 mph; square hole spacing 7 ½"; (approx.):	95799 sq.ft./hr		127014 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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