

**USER MANUAL**

**100proGreen Master Lawn Spiker / Master Lawn Mini Spiker  
Manually operated lawn aeration roller**



## **1. Introduction**

The Master Lawn Spiker and Master Lawn Mini Spiker are manually guided lawn aeration rollers designed for effective mechanical aeration of turf areas. They are intended for regular lawn maintenance in private gardens, parks, residential areas, smaller sports fields, and representative green spaces.

The machine design focuses on simplicity, durability, and maximum efficiency. Stainless steel spikes (so-called spoons) gently penetrate the soil profile, improving access of air, water, and nutrients to the root system and supporting the healthy growth of a dense and vital lawn.

The Mini Spiker model is primarily intended for smaller areas, narrow spaces, and localized interventions, while the Master Lawn Spiker offers a wider working width and higher efficiency for medium and larger gardens.

### **1.1 Purpose and intended use**

The purpose of the machine is mechanical lawn aeration using solid, replaceable spikes. Soil aeration reduces compaction, supports the development of a strong root system, and improves the overall condition of the turf.

The machine is particularly suitable for regular maintenance of ornamental and utility lawns, as a follow-up operation after verticutting or scarifying, for lawn regeneration after winter or intensive use, and for preventive lawn care throughout the season.

The machine is intended exclusively for lawn surfaces. It must not be used on hard surfaces such as concrete, asphalt, or paving stones.

### **1.2 Assembly and commissioning**

The Master Lawn Spiker and Master Lawn Mini Spiker are supplied fully assembled. Before first use, only a few basic steps are required to ensure safe and correct operation.

First, install the selected Multifork Pro handle. Insert the handle into the prepared mounting bracket on the machine body and secure it using the four supplied bolts. Tighten the bolts evenly and carefully to ensure a firm connection without damaging the threads.

After installing the handle, check the overall stability of the machine, especially the handle fastening and the free rotation of the roller. The roller must rotate smoothly without resistance or unusual noise.

Before starting work, it is recommended to perform a brief visual inspection of all spikes and fastening elements. The machine is now ready for operation.

For optimal results, aeration should be carried out on a slightly moist lawn. Extremely dry or excessively wet soil may reduce aeration effectiveness and increase stress on the spikes.

### **1.3 Optional additional weight**

For work on compacted, dry, or heavily used lawns, an optional additional weight can be installed. The additional weight increases ground pressure and allows deeper and more effective spike penetration.

The weight is mounted on the shaft inside the machine body and can be installed quickly and easily. When using the additional weight, always monitor machine behavior and adjust your working pace accordingly. If the soil is very soft, the weight should be removed to prevent excessive turf damage.

The use of additional weight significantly increases aeration efficiency on older or heavily compacted lawns.

## **2. Safety instructions**

When working with the Master Lawn Spiker and Master Lawn Mini Spiker, basic safety rules must be observed. The spikes are sharp and may cause injury if handled incorrectly.

The machine may only be operated by persons familiar with this manual. Sturdy work footwear and protective gloves are recommended. Never touch the spikes while the roller is moving and do not intervene in the machine unless it is at a complete standstill.

Do not use the machine on hard surfaces such as concrete, asphalt, or paving stones. When turning or changing direction, proceed smoothly and avoid abrupt movements that could damage the turf or the machine.

## **3. Technical specifications**

### **3.1 Master Lawn Spiker (525 mm)**

Type: Manually operated lawn aeration roller

Intended use: Regular lawn maintenance and regeneration, medium and large gardens, sports and recreational areas

Working width: 525 mm

Construction:

Two independently mounted aeration segments

Steel frame with protective surface coating

Spikes:

128 solid stainless steel spikes

Spike length: 50 mm

Spike diameter: 8 mm tapering to 7 mm

Optional spikes:

Cross spikes, length 50 mm, diameter 7 mm

Hole density: approx. 284 holes per m<sup>2</sup>

Weight: approx. 52 kg including Multifork Pro handle

Additional weight:  
Optional, total weight 21.6 kg  
Suitable for compacted or dry surfaces

### **3.2 Master Lawn Mini Spiker**

Type: Manually operated lawn aeration roller  
Intended use: Small and complex gardens, residential lawns, areas with limited maneuvering space  
Working width: 280 mm

Construction:  
Single-piece aeration roller  
Compact steel frame with protective surface coating

Spikes:  
64 solid stainless steel spikes  
Spike length: 50 mm  
Spike diameter: 7 mm at the tip, expanding to 8 mm

Hole density: approx. 284 holes per m<sup>2</sup>

Weight: approx. 28.5 kg including handle

Additional weight:  
Optional 10.8 kg weight  
Increases ground pressure on compacted soil

## **4. Operation**

During operation, guide the machine evenly across the lawn in straight passes. For uniform aeration, slightly overlap individual passes. Ensure the roller rotates smoothly and the spikes penetrate evenly across the entire working width.

When changing direction or turning, use the transport rollers to prevent damage to the turf.

## **5. Service and maintenance**

Regular maintenance is essential for long service life and reliable operation. After each use, clean the spikes and roller body of soil and grass residues. Use water with moderate pressure or a brush. Do not use high-pressure cleaners.

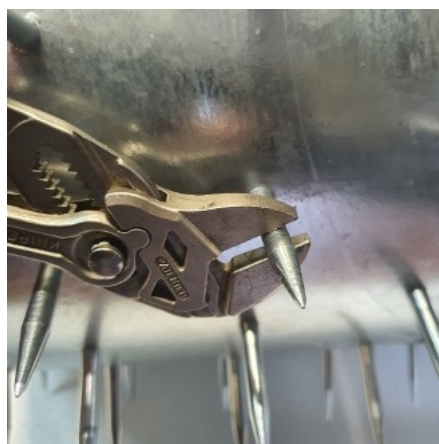
After cleaning, dry the machine thoroughly, ideally using compressed air or a blower, to prevent moisture retention and corrosion. After drying, treat the spikes and moving parts with a suitable protective agent.

## 5.1 Spike replacement

The spikes are replaceable and should be checked regularly. Replace any worn, bent, or damaged spikes.

Use suitable tools for replacement, ideally a ratchet with a 10 mm socket or a combination wrench. Tighten spikes carefully to avoid thread damage. Only original 100proGreen stainless steel spikes are recommended.

If required, standard smooth spikes can be replaced with cross spikes, which are suitable for specific soil conditions and more intensive soil penetration.



## 5.2 Storage

Store the machine in a dry, well-ventilated area protected from moisture and direct sunlight. Avoid long-term storage on damp surfaces. Ideally, store the machine upright or on a dry wooden base.

## 6. Troubleshooting

The Master Lawn Spiker / Master Lawn Mini Spiker is designed for simple and reliable operation. However, minor operational issues may occur under certain conditions.

If the roller does not rotate or rotates irregularly, the most common cause is soil buildup on the spikes or roller. Stop the machine, clean the working components, and check for free rotation.

If spikes do not penetrate deeply enough, the soil may be too dry or compacted. Aerate on slightly moist turf or use the additional weight. Also check that the spikes are straight and not excessively worn.

If spikes clog excessively with soil, the lawn surface is likely too wet. Stop work and allow the soil to dry. Regular cleaning after each use significantly reduces this issue.

## 7. Recommendations for improved results

For best results, perform aeration regularly rather than as a one-time intensive intervention. Frequent, gentle aeration has a significantly better effect on lawn health.

Always use the machine exclusively on lawn surfaces. Contact between spikes and hard surfaces may cause damage and reduce service life. For transport outside the working area, use the transport rollers or lift and carry the machine.

Use only original 100proGreen spare parts and accessories designed specifically for this machine.

## 8. Warranty and service information

The Master Lawn Spiker and Master Lawn Mini Spiker are covered by a statutory 24-month warranty from the date of purchase unless otherwise specified in the sales contract. The warranty covers manufacturing and material defects under normal use in accordance with this manual.

The warranty does not cover normal wear of working parts such as spikes, bearings, and surface coatings, nor damage caused by improper use, overloading, or unauthorized modifications.

## 9. Final provisions

Compliance with the instructions contained in this user manual is essential for safe operation, long service life, and maximum aeration efficiency. Keep this manual for the entire service life of the machine.

## 10. Contact



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