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› [Einhell](#) /

› [Einhell Scarifier and Aerator GE-SA 1435 Instruction Manual](#)

## Einhell GE-SA 1435

# Einhell GE-SA 1435 Electric Scarifier and Aerator Instruction Manual

Model: GE-SA 1435

## INTRODUCTION

Thank you for choosing the Einhell GE-SA 1435 Electric Scarifier and Aerator. This powerful and reliable machine is designed to help you maintain a healthy lawn by effectively scarifying and aerating smaller to medium-sized ground surfaces. It features a robust 1400 Watt motor, a 35 cm working width, and a 28-liter collection bag. This manual provides essential information for safe operation, assembly, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

## SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury and damage to the equipment:

- **Read the entire manual:** Familiarize yourself with the controls and proper use of the machine before operation.
- **Wear appropriate personal protective equipment (PPE):** Always wear sturdy footwear, long trousers, and eye protection. Hearing protection is recommended.
- **Inspect the work area:** Before starting, clear the lawn of stones, sticks, wires, and other debris that could be thrown by the machine.
- **Check the power cord:** Ensure the power cord is in good condition and positioned to avoid damage during operation. Use an outdoor-rated extension cord if necessary.
- **Keep bystanders away:** Maintain a safe distance from children, pets, and other people while operating the scarifier/aerator.
- **Do not operate in wet conditions:** Avoid using the machine in rain or on wet grass to prevent electrical hazards.
- **Disconnect power:** Always unplug the machine before cleaning, maintenance, or if it becomes jammed.
- **Secure footing:** Operate the machine only on stable ground and maintain a firm grip on the handles.
- **Avoid overheating:** If the motor shows signs of overheating, switch off the machine and allow it to cool down before resuming operation.

## SETUP AND ASSEMBLY

The Einhell GE-SA 1435 is designed for straightforward assembly. Follow these steps to prepare your machine for use.

## 1. Unfolding the Handlebars

The push boom is designed to fold for compact storage. Carefully unfold the handlebars until they lock into position. Ensure all locking mechanisms are securely fastened.



Figure 1: The folding mechanism allows for compact storage and easy setup of the handlebars.

## 2. Adjusting Handlebar Height

The handlebars are height-adjustable to suit different users. Loosen the adjustment clamps, set the handlebars to a comfortable working height, and then securely tighten the clamps.



Figure 2: Adjust the handlebar height for ergonomic operation.

### 3. Attaching the Collection Bag

Attach the 28-liter collection bag to the rear of the machine. Ensure it is securely fitted to prevent debris from escaping during operation.



Figure 3: The 28-liter collection bag attached to the rear of the unit.

#### 4. Installing the Rollers

The GE-SA 1435 comes with two interchangeable rollers: a knife roller for scarifying and an aeration roller for aerating. Select the appropriate roller for your task and install it according to the instructions in the separate roller replacement guide (if provided) or by consulting the machine's internal mechanism. The knife roller has 20 stainless steel blades, and the aeration roller has 26 claws.



Figure 4: The interchangeable knife roller (top) and aeration roller (bottom).

## OPERATING INSTRUCTIONS

Proper operation ensures effective lawn care and extends the life of your machine.

### 1. Connecting to Power

Connect the machine's power cord to a suitable outdoor-rated extension cord, and then plug into a grounded power outlet. Ensure the power supply matches the machine's specifications (1400W).

### 2. Setting Working Depth

The GE-SA 1435 features a 3-stage central working depth setting, ranging from 3mm to 9mm, plus a parking position. Adjust the working depth using the lever located on the side of the machine. For scarifying, start with a shallower depth and gradually increase if needed. For aerating, a moderate depth is usually sufficient.



Figure 5: The 3-stage central working depth adjustment for precise control.

### 3. Starting the Machine

Press and hold the safety switch, then pull the operating lever to start the motor. Release the safety switch once the motor is running. The machine will automatically propel itself forward; guide it steadily across the lawn.

### 4. Scarifying and Aerating Technique

Move the machine in straight, overlapping lines across your lawn, similar to mowing. Avoid staying in one spot for too long to prevent damage to the turf. The collection bag will gather removed thatch and moss. Empty the bag regularly to maintain optimal performance. The machine is suitable for lawns up to 400 m<sup>2</sup>.



Figure 6: The scarifier in operation, collecting thatch and moss.

## 5. Stopping the Machine

Release the operating lever to stop the motor. Always disconnect the power supply when finished or before performing any adjustments or maintenance.

## MAINTENANCE

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Regular maintenance ensures the longevity and efficiency of your Einhell GE-SA 1435.

- **Cleaning:** After each use, disconnect the power and clean the machine. Remove any grass, soil, or debris from the housing, rollers, and air vents. Use a brush or cloth; avoid using water directly on electrical components.
- **Roller Inspection:** Regularly inspect the knife roller blades and aeration roller claws for wear or damage. Replace worn or damaged rollers to maintain effective performance. Ensure the rollers are free from tangled grass or roots.
- **Storage:** For compact storage, fold the push boom as shown in the setup section. Store the machine in a dry, secure location, away from moisture and extreme temperatures.



Figure 7: The machine can be folded and easily carried for storage or transport.

## TROUBLESHOOTING

If you encounter issues with your Einhell GE-SA 1435, consult the following table for common problems and solutions.

Problem	Possible Cause	Solution
Machine does not start	No power supply; safety switch not engaged; operating lever not pulled.	Check power connection and extension cord. Ensure safety switch is pressed and operating lever is pulled simultaneously.
Motor stops during operation / Overheating	Overload; tangled debris in roller; motor protection activated.	Disconnect power. Clear any debris from the roller. Reduce working depth. Allow motor to cool down before restarting.
Poor scarifying/aerating performance	Incorrect working depth; worn rollers; collection bag full.	Adjust working depth. Inspect and replace rollers if worn. Empty collection bag.
Excessive vibration	Damaged or unbalanced roller; loose components.	Disconnect power. Inspect rollers for damage and replace if necessary. Check all fasteners for tightness.

## TECHNICAL SPECIFICATIONS

**Model:** GE-SA 1435

**Model Number:** 3420561

**Power Source:** Corded Electric

**Motor Power:** 1400 Watts

**Working Width:** 35 cm

**Working Depth:** 3-9 mm (3-stage central adjustment)

**Knife Roller:** 20 stainless steel blades

**Aeration Roller:** 26 claws

**Collection Bag Capacity:** 28 Liters

**Recommended Lawn Area:** Up to 400 m<sup>2</sup>

**Item Weight:** 14 Kilograms

**Product Dimensions (D x W x H):** 20.93" x 9.22" x 5.43"

**Material:** Metal, Plastic

**Color:** Red

## WARRANTY AND SUPPORT

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For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Einhell website. For technical support, spare parts, or service inquiries, please contact Einhell customer service through their official channels. Always provide your model number (GE-SA 1435 or 3420561) when seeking support.