

## Einhell GC-CS 235 E

# Einhell GC-CS 235 E Electric Chainsaw Chain Sharpener User Manual

Model: GC-CS 235 E

## 1. INTRODUCTION

Thank you for choosing the Einhell GC-CS 235 E Electric Chainsaw Chain Sharpener. This device is designed for precise and efficient sharpening of all common chainsaw chains. Proper use and maintenance will ensure a long service life and optimal performance. Please read this manual carefully before operating the sharpener to ensure safe and correct usage.

## 2. SAFETY INSTRUCTIONS

**WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.**

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the sharpener. Wear appropriate work gloves. Do not overreach. Keep proper footing and balance at all times.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Specific Safety for Chain Sharpeners:** Ensure the chain is securely clamped before sharpening. Do not touch the grinding wheel during operation. Allow the grinding wheel to reach full speed before contacting the chain.

## 3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Einhell GC-CS 235 E chain sharpener.



The Einhell GC-CS 235 E electric chainsaw chain sharpener, showing its compact design and key components.

- **Grinding Head:** Contains the motor and grinding wheel.
- **Operating Handle:** For lowering the grinding head onto the chain.
- **Chain Clamping Device:** Secures the chainsaw chain during sharpening.
- **Angle Adjustment Scale:** For setting the precise sharpening angle.
- **Depth Stop:** Controls the grinding depth.
- **Protective Cover:** Transparent cover over the grinding wheel for safety.



The ergonomic handle for safe and controlled operation of the sharpener.

## 4. TECHNICAL SPECIFICATIONS

Specification	Value
Model	GC-CS 235 E
Power Input	235 W
Grinding Wheel Thickness	3.2 mm
Max. No-Load Speed	4000 rpm
Voltage	230 V ~ 50 Hz (typical for EU models)

## 5. SETUP

### 5.1 Unpacking and Mounting

1. Carefully remove all components from the packaging.
2. Mount the sharpener securely to a workbench using appropriate bolts or clamps (not included).

Ensure it is stable and does not wobble during operation.

## 5.2 Installing the Grinding Wheel



A close-up view of the 3.2 mm replacement grinding wheel, essential for effective chain sharpening.

1. Ensure the sharpener is unplugged from the power supply.
2. Remove the protective cover.
3. Mount the 3.2 mm grinding wheel onto the spindle, ensuring it is seated correctly and tightened securely with the provided fasteners.
4. Replace the protective cover.

## 5.3 Adjusting the Sharpening Angle



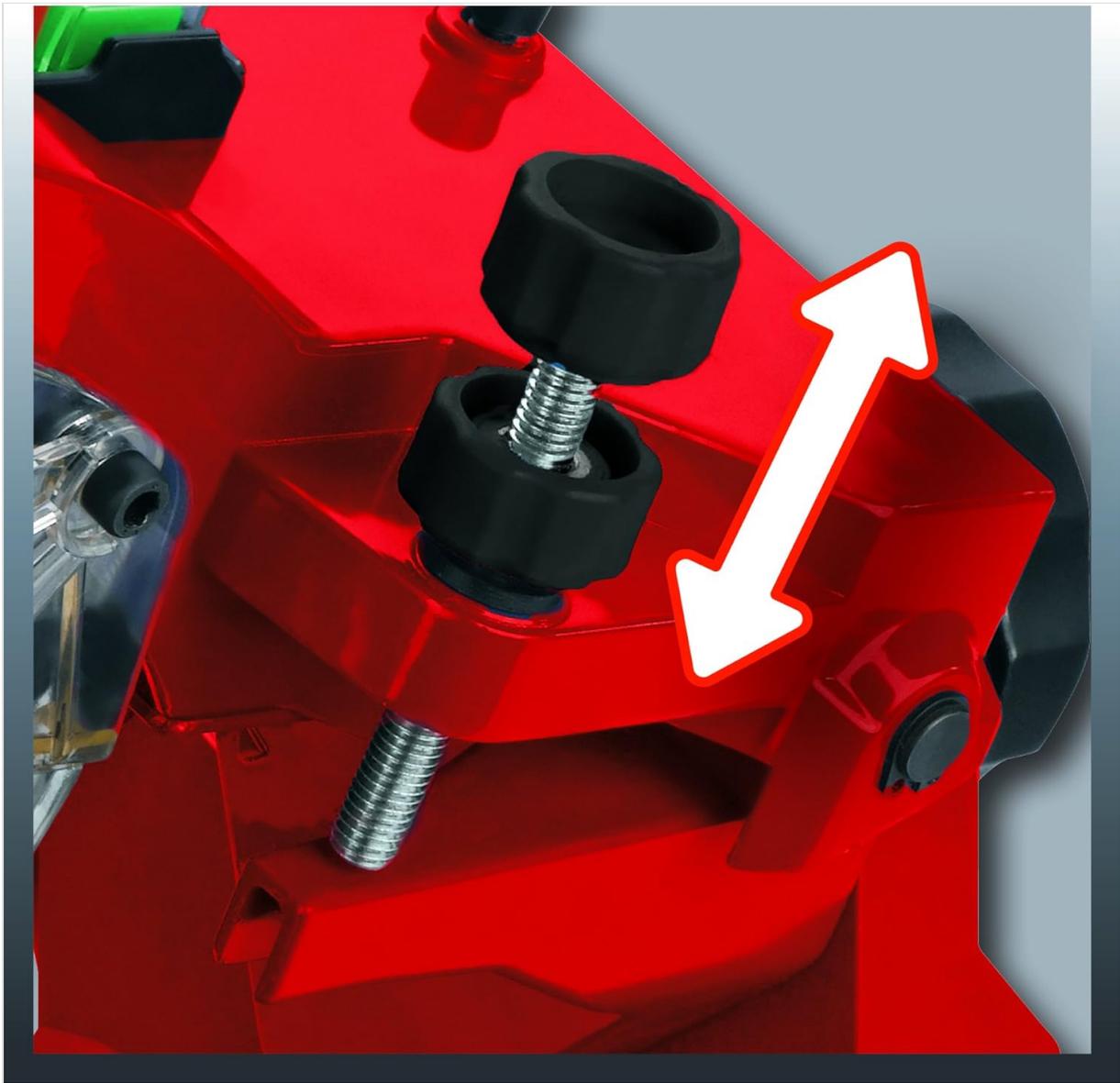
Detail of the graduated scale for precise adjustment of the sharpening angle, ranging from 0 to 40 degrees.



The base plate with angle markings, indicating the range of adjustment for different chain types.

1. Consult your chainsaw chain manufacturer's recommendations for the correct sharpening angle.
2. Loosen the locking knob for the angle adjustment.
3. Rotate the chain clamping device to the desired angle, indicated on the graduated scale.
4. Tighten the locking knob securely.

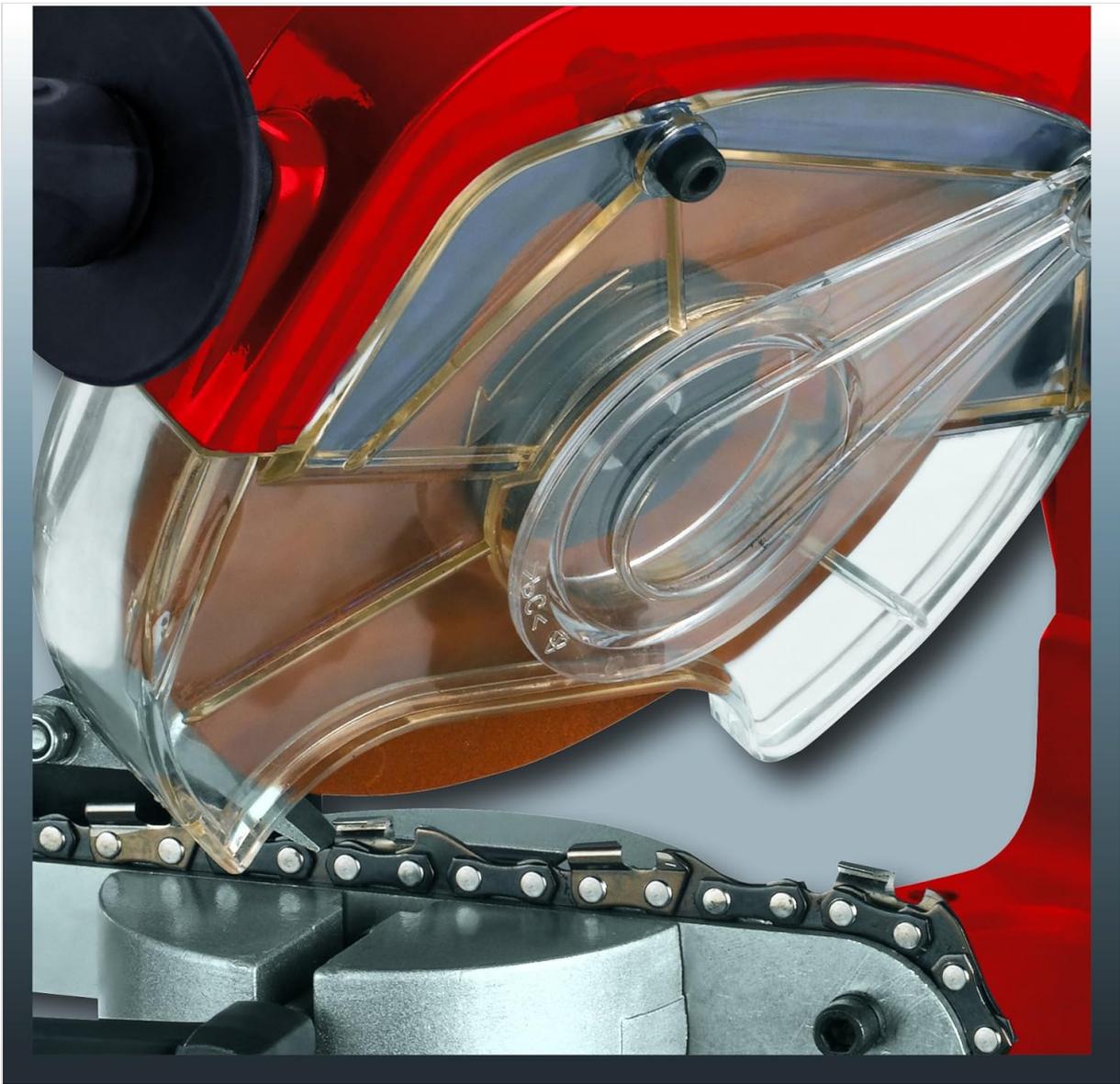
#### **5.4 Adjusting Depth Stop**



The depth stop mechanism, allowing users to set the exact grinding depth for consistent results.

1. The depth stop prevents the grinding wheel from grinding too deep into the chain link.
2. Adjust the depth stop screw so that the grinding wheel only removes material from the cutting edge without touching the chain body.

### **5.5 Securing the Chainsaw Chain**



The transparent protective cover over the grinding wheel and the chain clamping device, ensuring safety and precise positioning.

1. Place the chainsaw chain into the clamping device.
2. Ensure one cutting tooth is positioned directly under the grinding wheel.
3. Tighten the chain clamping screw to hold the chain firmly in place.

## 6. OPERATION

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An individual demonstrating the use of the Einhell GC-CS 235 E, showing proper hand placement and safety precautions during sharpening.

1. Ensure all setup adjustments (angle, depth stop, chain clamping) are correctly made.
2. Plug the sharpener into a suitable power outlet.
3. Switch on the sharpener. Allow the grinding wheel to reach its full operating speed.
4. Gently lower the grinding head using the operating handle until the grinding wheel contacts the cutting tooth. Apply light, even pressure.
5. Grind each tooth for a short duration, typically 1-3 seconds, depending on the dullness. Avoid excessive pressure or prolonged grinding, which can overheat the tooth.
6. Lift the grinding head, release the chain clamp, and advance the chain to the next tooth. Re-clamp the chain.
7. Sharpen all teeth facing one direction first. Then, adjust the sharpening angle to the opposite direction (e.g., from 30° left to 30° right) and sharpen the remaining teeth.
8. After sharpening, check the chain for consistent tooth length and sharpness.
9. Unplug the sharpener after use.

## 7. MAINTENANCE AND CLEANING

### 7.1 General Cleaning

- Always unplug the sharpener before cleaning.
- Use a brush or compressed air to remove grinding dust and debris from the machine, especially around the motor vents and clamping mechanism.
- Wipe down external surfaces with a damp cloth. Do not use harsh chemicals or solvents.

### 7.2 Grinding Wheel Replacement

- The grinding wheel will wear down over time and needs to be replaced when its diameter becomes too small or if it is damaged.

- Follow the instructions in Section 5.2 for safe replacement of the grinding wheel.
- Always use genuine Einhell replacement grinding wheels (3.2 mm thickness) to ensure compatibility and performance.

### 7.3 Storage

- Store the sharpener in a dry, secure location, out of reach of children.
- Protect the sharpener from dust and moisture.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sharpener does not start	No power supply	Check power cord, plug, and outlet.
Poor sharpening results	Incorrect angle/depth setting; Worn grinding wheel	Adjust angle and depth stop. Replace grinding wheel if worn.
Grinding wheel overheats	Excessive pressure; Prolonged grinding	Apply lighter pressure and grind for shorter durations. Allow cooling time.
Chain not held securely	Clamping device not tightened; Debris in clamp	Ensure clamping screw is tight. Clean clamping device.

## 9. WARRANTY AND SERVICE

Einhell products are manufactured to high-quality standards and undergo strict quality controls. This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions, including the warranty period and how to make a claim. For service, spare parts, or technical support, please contact your authorized Einhell dealer or visit the official Einhell website for contact information in your region. Always provide the model number (GC-CS 235 E) and serial number when seeking assistance.