

Einhell 4499910

Einhell Chainsaw Sharpener GC-CS 235 E Instruction Manual

Model: 4499910

1. INTRODUCTION

The Einhell GC-CS 235 E Chainsaw Sharpener is a robust and efficient tool designed for precise sharpening of all standard saw chains. This manual provides essential information for the safe and effective operation, setup, and maintenance of your sharpener. Please read this manual thoroughly before initial use and keep it for future reference.



Figure 1: Einhell GC-CS 235 E Chainsaw Sharpener

2. SAFETY INSTRUCTIONS

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

- **Read all instructions:** Familiarize yourself with the controls and proper use of the sharpener.
- **Wear personal protective equipment:** Always wear safety glasses, hearing protection, and gloves when operating the sharpener.
- **Secure the workpiece:** Ensure the chainsaw chain is securely clamped before sharpening.
- **Maintain a clean work area:** Keep the work area well-lit and free of clutter.
- **Avoid accidental starting:** Ensure the switch is in the off position before plugging in the tool.

- **Do not overreach:** Maintain proper footing and balance at all times.
- **Disconnect power:** Always unplug the sharpener from the power source before making adjustments, changing accessories, or performing maintenance.
- **Use the correct grinding wheel:** Only use grinding wheels specified for this sharpener (diameter: 145 mm, bore: 22 mm, thickness: 3.2 mm).
- **Electrical Safety:** The sharpener operates on 220-240 V | 50 Hz. Ensure your power supply matches these requirements. Do not expose the tool to rain or wet conditions.

3. COMPONENTS AND FEATURES

The Einhell GC-CS 235 E Chainsaw Sharpener includes the following key components and features:

- **Depth Stop:** Prevents excessive material removal from the chain tooth.
- **Chain Fixing Device:** Securely holds the chainsaw chain in place during sharpening.
- **Grinding Disc:** Standard size 145 x 22 x 3.2 mm for effective sharpening.
- **Transparent Screen:** Provides protection from sparks and debris while allowing visibility of the sharpening process.
- **Lighting:** Illuminates the work area for improved visibility and precision.
- **Tilting Sharpening Head:** Allows for adjustment of the grinding angle to match various chain tooth specifications.
- **Graduated Scale:** For precise adjustment of the grinding angle.
- **Tightening Bolt:** Secures the chain and adjustment settings.



Figure 2: Key components of the Chainsaw Sharpener

4. SETUP

Before operating the sharpener, ensure it is properly set up:

1. **Mounting:** Securely mount the sharpener to a stable workbench using appropriate fasteners.
2. **Install Grinding Wheel:** Ensure the abrasive grinding wheel (145 x 22 x 3.2 mm) is correctly installed and tightened.
3. **Adjust Grinding Angle:** Use the graduated scale to set the desired grinding angle for your chainsaw chain. Typical angles range from 25° to 35°.
4. **Set Depth Stop:** Adjust the depth stop to control the amount of material removed from each tooth. This prevents over-grinding and damage to the chain.
5. **Position Chain:** Place the chainsaw chain into the chain fixing device, ensuring the tooth to be sharpened is

correctly aligned with the grinding wheel. Use the tightening bolt to secure the chain.

5. OPERATING INSTRUCTIONS

Follow these steps for effective chain sharpening:

1. **Connect Power:** Plug the sharpener into a suitable 220-240 V, 50 Hz power outlet.
2. **Activate Lighting:** Turn on the integrated lighting for better visibility of the chain tooth.
3. **Start Sharpener:** Turn on the sharpener. The grinding wheel will reach its operating speed of 3000 RPM.
4. **Sharpen Tooth:** Carefully lower the grinding head onto the chain tooth. Apply light, consistent pressure. The depth stop will prevent grinding too deep. Perform short, controlled passes.
5. **Check Progress:** Lift the grinding head and inspect the sharpened tooth. Ensure the cutting edge is sharp and free of burrs.
6. **Advance Chain:** Release the chain fixing device, advance the chain to the next tooth of the same angle, and secure it. Repeat the sharpening process for all teeth facing the same direction.
7. **Change Angle:** Once all teeth of one angle are sharpened, adjust the tilting sharpening head to the opposite angle and sharpen the remaining teeth.
8. **Complete Sharpening:** Continue until all teeth on the chain are sharpened.
9. **Power Off:** Turn off the sharpener and disconnect it from the power supply.



Figure 3: Operating the Chainsaw Sharpener

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sharpener:

- **Cleaning:** After each use, clean the sharpener to remove dust and debris. Use a soft brush or compressed air. Ensure the transparent screen is clean for clear visibility.

- **Grinding Wheel Inspection:** Regularly inspect the grinding wheel for wear or damage. Replace it if it becomes worn down or chipped.
- **Lubrication:** Refer to the product diagram for any specific lubrication points, if indicated. Generally, moving parts should be kept clean and free of obstruction.
- **Storage:** Store the sharpener in a dry, secure location, away from moisture and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your sharpener, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Sharpener does not start	No power supply; Faulty switch	Check power connection and outlet; Contact qualified service personnel
Chain not sharpening effectively	Worn grinding wheel; Incorrect angle setting; Insufficient depth stop setting	Replace grinding wheel; Re-adjust grinding angle; Adjust depth stop
Excessive sparks or smoke	Too much pressure; Incorrect grinding wheel; Dull grinding wheel	Reduce pressure; Ensure correct grinding wheel is used; Replace grinding wheel

If problems persist, please contact Einhell customer support or a qualified service technician.






8. SPECIFICATIONS

Specification	Value
Brand	Einhell
Model Number	4499910
Power Supply	220-240 V 50 Hz
Power	235 W
Speed	3000 RPM
Abrasive Grinding Wheel Diameter	145 mm
Abrasive Grinding Wheel Bore	22 mm
Abrasive Grinding Wheel Thickness	3.2 mm
Item Weight	5.8 kg (12.76 pounds)
Product Dimensions (L x W x H)	18.7" x 13.39" x 8.27"

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Einhell website. For technical support, spare parts, or service inquiries, please contact Einhell customer service directly. Keep your proof of purchase for warranty claims.

Related Documents - 4499910

	<p>Einhell GC-EC 1835 Electric Chainsaw Operating Instructions</p> <p>This document provides operating instructions for the Einhell GC-EC 1835 electric chainsaw, covering safety precautions, device description, intended use, technical data, pre-operation checks, operation, and troubleshooting.</p>
	<p>Einhell GC-PC 1535 I TC Petrol Chainsaw User Manual</p> <p>Comprehensive user manual for the Einhell GC-PC 1535 I TC petrol chainsaw, covering safety instructions, device description, intended use, technical data, pre-operation checks, operation, maintenance, and troubleshooting.</p>
	<p>Einhell GP-LCS 36/400 Li Cordless Chainsaw: Operating Instructions and Safety Guide</p> <p>Comprehensive operating instructions and safety guidelines for the Einhell GP-LCS 36/400 Li cordless chainsaw. Covers assembly, safe usage, maintenance, and troubleshooting for optimal performance and user safety.</p>
	<p>Einhell GC-CS 85 E Kettenschärfer Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für den Einhell GC-CS 85 E Kettenschärfer. Enthält Sicherheitshinweise, technische Daten, Montage- und Bedienungsanleitungen sowie Wartungsinformationen.</p>
	<p>Einhell GP-LC 36/35 Li Akku-Kettensäge: Bedienungsanleitung</p> <p>Die Einhell GP-LC 36/35 Li ist eine leistungsstarke Akku-Kettensäge, entwickelt für effizientes Arbeiten im Garten und bei der Holzbearbeitung. Dieses Dokument enthält umfassende Betriebsanleitungen und Sicherheitshinweise für die korrekte Montage, den sicheren Betrieb und die ordnungsgemäße Wartung des Geräts.</p>

Einhell GC-SC 18/28 Li-Akku-Vertikutierer und Rasenlüfter

1	Einleitung	100
2	Sicherheitshinweise	101
3	Bedienung	102
4	Wartung	103
5	Fehlerbehebung	104
6	Technische Daten	105
7	CE-Kennzeichnung	106
8	Garantie	107
9	Wichtige Hinweise	108
10	Wichtige Hinweise	109
11	Wichtige Hinweise	110
12	Wichtige Hinweise	111
13	Wichtige Hinweise	112
14	Wichtige Hinweise	113
15	Wichtige Hinweise	114
16	Wichtige Hinweise	115
17	Wichtige Hinweise	116
18	Wichtige Hinweise	117
19	Wichtige Hinweise	118
20	Wichtige Hinweise	119
21	Wichtige Hinweise	120
22	Wichtige Hinweise	121
23	Wichtige Hinweise	122
24	Wichtige Hinweise	123
25	Wichtige Hinweise	124
26	Wichtige Hinweise	125
27	Wichtige Hinweise	126
28	Wichtige Hinweise	127
29	Wichtige Hinweise	128
30	Wichtige Hinweise	129
31	Wichtige Hinweise	130
32	Wichtige Hinweise	131
33	Wichtige Hinweise	132
34	Wichtige Hinweise	133
35	Wichtige Hinweise	134
36	Wichtige Hinweise	135
37	Wichtige Hinweise	136
38	Wichtige Hinweise	137
39	Wichtige Hinweise	138
40	Wichtige Hinweise	139
41	Wichtige Hinweise	140
42	Wichtige Hinweise	141
43	Wichtige Hinweise	142
44	Wichtige Hinweise	143
45	Wichtige Hinweise	144
46	Wichtige Hinweise	145
47	Wichtige Hinweise	146
48	Wichtige Hinweise	147
49	Wichtige Hinweise	148
50	Wichtige Hinweise	149
51	Wichtige Hinweise	150
52	Wichtige Hinweise	151
53	Wichtige Hinweise	152
54	Wichtige Hinweise	153
55	Wichtige Hinweise	154
56	Wichtige Hinweise	155
57	Wichtige Hinweise	156
58	Wichtige Hinweise	157
59	Wichtige Hinweise	158
60	Wichtige Hinweise	159
61	Wichtige Hinweise	160
62	Wichtige Hinweise	161
63	Wichtige Hinweise	162
64	Wichtige Hinweise	163
65	Wichtige Hinweise	164
66	Wichtige Hinweise	165
67	Wichtige Hinweise	166
68	Wichtige Hinweise	167
69	Wichtige Hinweise	168
70	Wichtige Hinweise	169
71	Wichtige Hinweise	170
72	Wichtige Hinweise	171
73	Wichtige Hinweise	172
74	Wichtige Hinweise	173
75	Wichtige Hinweise	174
76	Wichtige Hinweise	175
77	Wichtige Hinweise	176
78	Wichtige Hinweise	177
79	Wichtige Hinweise	178
80	Wichtige Hinweise	179
81	Wichtige Hinweise	180
82	Wichtige Hinweise	181
83	Wichtige Hinweise	182
84	Wichtige Hinweise	183
85	Wichtige Hinweise	184
86	Wichtige Hinweise	185
87	Wichtige Hinweise	186
88	Wichtige Hinweise	187
89	Wichtige Hinweise	188
90	Wichtige Hinweise	189
91	Wichtige Hinweise	190
92	Wichtige Hinweise	191
93	Wichtige Hinweise	192
94	Wichtige Hinweise	193
95	Wichtige Hinweise	194
96	Wichtige Hinweise	195
97	Wichtige Hinweise	196
98	Wichtige Hinweise	197
99	Wichtige Hinweise	198
100	Wichtige Hinweise	199

[Einhell GC-SC 18/28 Li Akku-Vertikutierer und Rasenlüfter Bedienungsanleitung](#)

Die offizielle Bedienungsanleitung für den Einhell GC-SC 18/28 Li Akku-Vertikutierer und Rasenlüfter. Enthält Sicherheitshinweise, Bedienung, Wartung und Fehlerbehebung für Ihr Gartengerät.