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Einhell TC-RS 425 E

Einhell TC-RS 425 E Eccentric Sander Instruction Manual

Model: TC-RS 425 E | Brand: Einhell

1. SAFETY INSTRUCTIONS

Always observe the following safety precautions when operating the Einhell TC-RS 425 E eccentric sander to prevent injury and damage.

- **Read the Manual:** Familiarize yourself with all controls and operating procedures before use.
- **Personal Protective Equipment (PPE):** Always wear safety goggles, hearing protection, and a dust mask. Use work gloves for better grip and protection.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep children and bystanders away.
- **Electrical Safety:** Do not expose the tool to rain or wet conditions. Avoid using the tool in damp or wet locations. Ensure the power cord is undamaged and positioned to prevent tripping hazards.
- **Secure Workpiece:** Always secure the workpiece firmly to prevent movement during sanding.
- **Dust Extraction:** Connect the dust bag or an external dust extraction system to minimize dust exposure. Wood dust can be hazardous.
- **Maintenance:** Disconnect the power plug from the socket before making any adjustments, changing accessories, or storing the tool.
- **Ventilation:** Ensure adequate ventilation in the work area, especially when sanding materials that produce fine dust.

2. PRODUCT OVERVIEW

The Einhell TC-RS 425 E is a powerful and robust eccentric sander designed for sanding flat or curved surfaces on wood, wood-derived materials, and painted surfaces. Its electronic speed control allows for optimal adaptation to the material and application.



Figure 2.1: The Einhell TC-RS 425 E Eccentric Sander with its ergonomic design.

Key Features:

- **Powerful Motor:** 425 W motor for efficient material removal.
- **Sanding Pad:** 125 mm diameter sanding pad with hook-and-loop fastening for quick abrasive paper changes.
- **Oscillation Circuit:** Large 2.5 mm oscillation circuit for effective sanding.
- **Variable Speed:** Electronic speed control from 12,000 to 26,000 oscillations per minute.
- **Ergonomic Design:** Softgrip surfaces and an auxiliary handle ensure comfortable handling during prolonged use.
- **Dust Management:** Integrated dust extraction with a dust collection bag and a 35 mm adapter for connecting an external wet/dry vacuum cleaner.
- **Included Accessories:** Comes with 3 sanding sheets (P60, P80, P120) to start immediately.

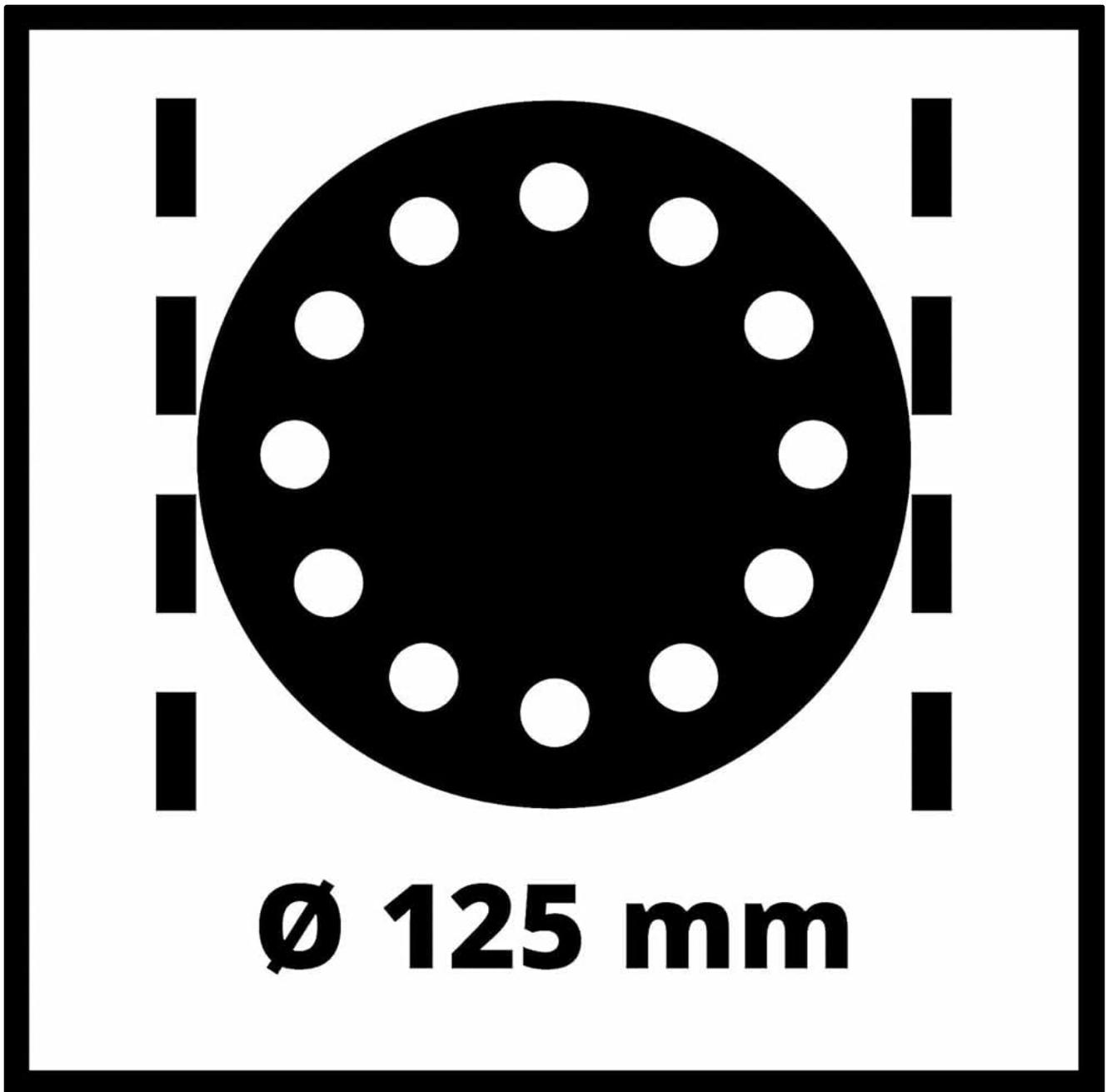
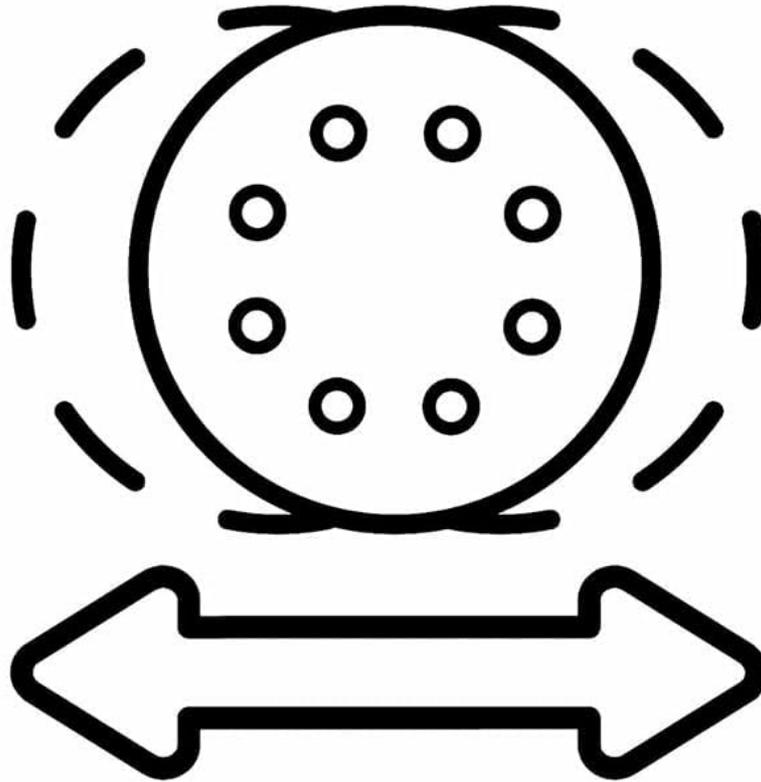
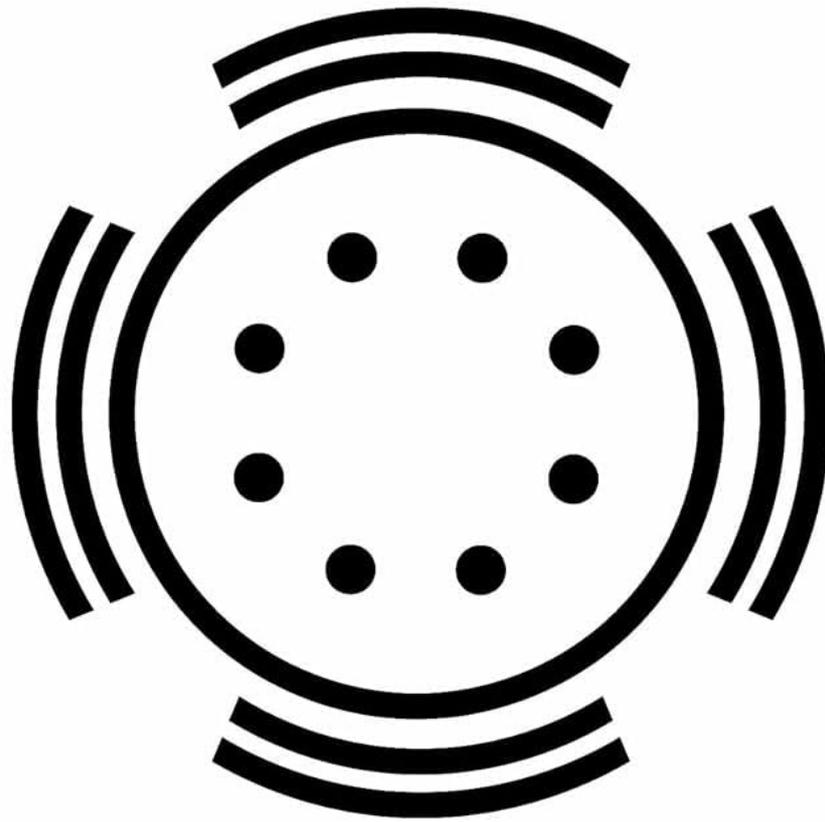


Figure 2.2: The sander features a 125 mm diameter sanding pad.



Ø 2,5 mm

Figure 2.3: The sander operates with a 2.5 mm oscillation circuit.



12.000 – 26.000
min⁻¹

Figure 2.4: The sander's oscillation speed ranges from 12,000 to 26,000 per minute.

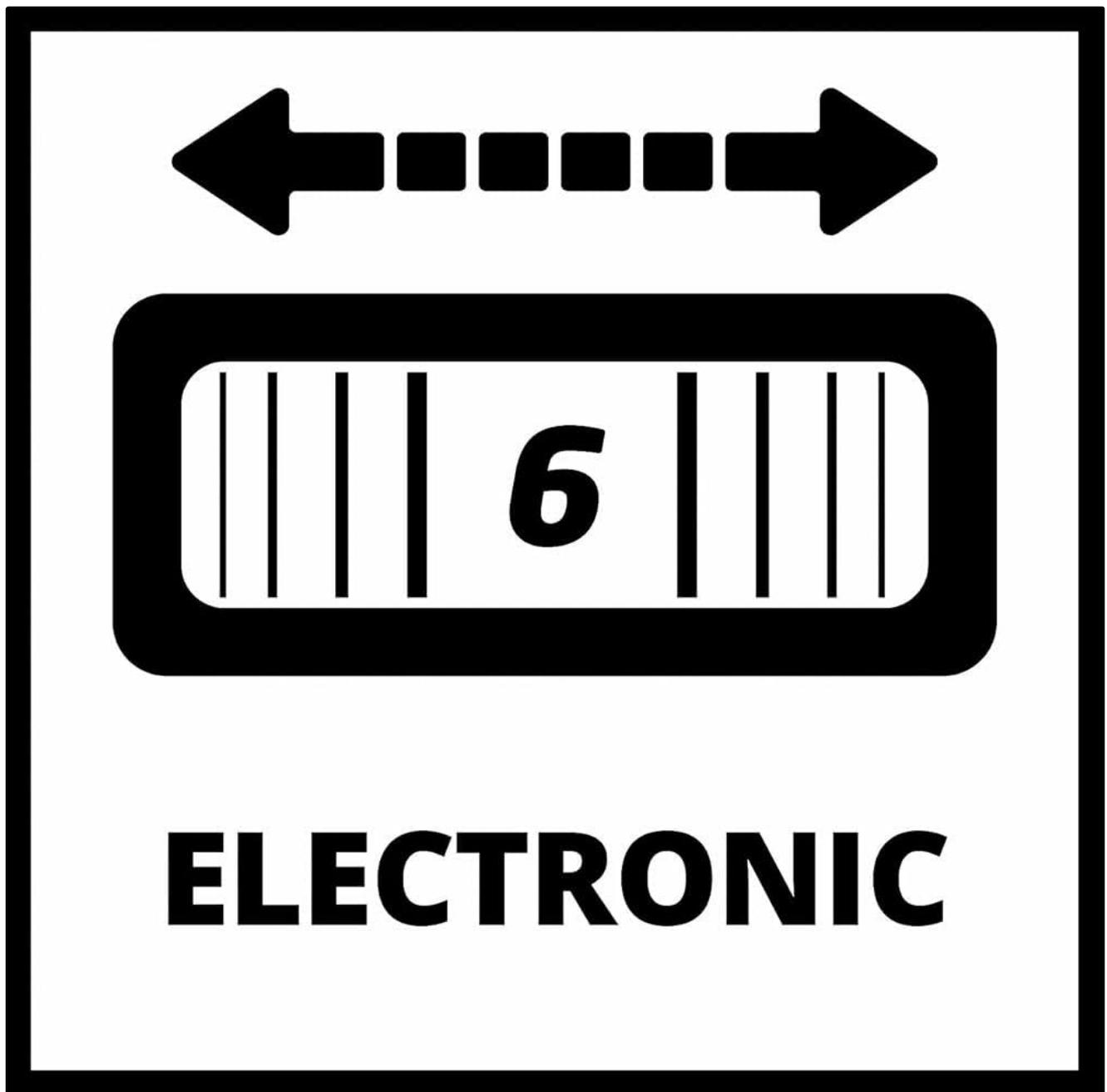


Figure 2.5: Electronic speed control allows for precise adjustment.

3. SETUP

3.1 Attaching Sanding Sheets

The sanding pad features a hook-and-loop fastening system for quick and easy attachment of sanding sheets.

1. Ensure the sander is unplugged from the power source.
2. Align the holes on the sanding sheet with the holes on the sanding pad.
3. Press the sanding sheet firmly onto the pad to secure it.



Figure 3.1: Attaching a sanding sheet to the hook-and-loop sanding pad.

3.2 Connecting Dust Extraction

The sander comes with an integrated dust collection bag and an adapter for connecting an external vacuum cleaner.

- **Using the Dust Bag:** Attach the provided dust collection bag directly to the dust extraction port on the sander. Ensure it is securely fastened.
- **Using an External Vacuum:** For more efficient dust collection, attach the 35 mm adapter to the dust extraction port, then connect a suitable wet/dry vacuum cleaner hose to the adapter.



Figure 3.2: The sander with the dust collection bag attached.



Figure 3.3: Options for dust extraction: using the dust bag or connecting to an external vacuum cleaner.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your eccentric sander.

4.1 Powering On and Off

1. Ensure the sander is properly set up with the desired sanding sheet and dust extraction.
2. Plug the power cord into a suitable electrical outlet.
3. To start the sander, press the ON/OFF switch.
4. To stop the sander, release or press the ON/OFF switch again, depending on the switch type.

4.2 Adjusting Speed

The electronic speed control allows you to adjust the oscillation speed to match the material and desired finish.

1. Locate the speed adjustment dial on the tool.
2. Rotate the dial to select the desired speed setting. Lower speeds are suitable for delicate work or polishing, while higher speeds are for aggressive material removal.



Figure 4.1: Adjusting the oscillation speed using the dial.

4.3 Sanding Technique

For best results, hold the sander firmly with both hands and apply even, moderate pressure. Move the sander in overlapping passes across the workpiece.

- Start the sander before placing it on the workpiece.
- Move the sander smoothly and evenly over the surface. Avoid pressing too hard, as this can reduce efficiency and damage the workpiece or sanding pad.
- Lift the sander from the workpiece before turning it off.



Figure 4.2: Proper technique for using the eccentric sander on a wooden surface.

Video 4.1: Demonstration of the Einhell TC-RS 425 E sander in use, showing sanding sheet attachment, dust extraction connection, and speed adjustment.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sander.

- **Cleaning:** After each use, wipe down the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure ventilation openings are clear of dust.
- **Dust Bag:** Empty the dust collection bag regularly to maintain effective dust extraction. Clean the bag if necessary.
- **Sanding Pad:** Inspect the hook-and-loop fastening on the sanding pad for wear. Replace the pad if it no longer holds sanding sheets securely.
- **Carbon Brushes:** If the motor sparks excessively, have the carbon brushes checked by a qualified technician.
- **Storage:** Store the sander in a dry, secure place out of reach of children.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your sander.

Problem	Possible Cause	Solution
Sander does not start	No power supply; Faulty switch; Damaged power cord	Check power outlet and cord; Contact service for switch/cord replacement.
Poor sanding results	Worn sanding sheet; Incorrect grit for material; Excessive pressure	Replace sanding sheet; Use appropriate grit; Apply moderate, even pressure.
Excessive vibration	Improperly attached sanding sheet; Damaged sanding pad; Internal fault	Re-attach sanding sheet correctly; Replace sanding pad; Contact service.
Ineffective dust extraction	Full dust bag; Clogged extraction port; Loose connection	Empty/clean dust bag; Clear any blockages; Ensure secure connections.

7. SPECIFICATIONS

Technical data for the Einhell TC-RS 425 E Eccentric Sander.

Feature	Value
Product Dimensions (L x W x H)	28.3 x 12.2 x 17.7 cm
Weight	1.76 Kilograms
Model Number	4462005
Brand	Einhell
Voltage	220 Volts (AC)
Power Source	AC (Corded Electric)
Max Rotation Speed	26000 rpm
Sanding Pad Diameter	125 mm
Oscillation Circuit	2.5 mm
Included Components	Eccentric sander, dust collection bag, 3 abrasive discs (1 x K60, 1 x K80, 1 x K120)
Country of Origin	China

8. WARRANTY AND SUPPORT

Einhell provides a warranty for its products. Please refer to the specific warranty terms and conditions provided with your purchase for full details.

- **Spare Parts Availability:** Spare parts are generally available for 1 year from the date of purchase.
- **Contact Support:** For technical assistance, warranty claims, or to order spare parts, please contact Einhell customer service or visit their official website. Keep your proof of purchase and product model number handy.