

Holzmann UWS3_230V

Holzmann UWS 3 Universal Tool Grinder Instruction Manual

Model: UWS3_230V | Brand: Holzmann

1. INTRODUCTION

The Holzmann UWS 3 is a versatile universal tool grinder designed for precision sharpening of various tools. Its robust construction and high-precision spindle ensure vibration-free operation and millimeter accuracy, crucial for professional results. This manual provides essential information for the safe and efficient setup, operation, and maintenance of your UWS 3 tool grinder.

The UWS 3 is suitable for sharpening punches, drills, electrodes, tool holders, tailstocks, and a wide variety of other cutting tools, thanks to its extensive adjustment capabilities.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury or damage to the equipment.

- **Read the entire manual:** Understand all operating procedures and safety warnings before use.
- **Wear personal protective equipment (PPE):** Always wear safety glasses, hearing protection, and appropriate work gloves.
- **Ensure a safe work environment:** Keep the work area clean, well-lit, and free from obstructions. Do not operate in damp or wet conditions.
- **Secure the workpiece:** Always ensure the tool being sharpened is securely clamped or held in the appropriate adapter.
- **Check for damage:** Before each use, inspect the grinder, power cord, and grinding wheel for any signs of damage. Do not operate if damaged.
- **Unplug before maintenance:** Always disconnect the power supply before performing any adjustments, maintenance, or when changing accessories.
- **Avoid overreaching:** Maintain proper footing and balance at all times.
- **Keep children and bystanders away:** Do not allow unauthorized persons near the operating machine.
- **Use correct accessories:** Only use accessories specifically designed for the Holzmann UWS 3.

3. PRODUCT OVERVIEW

The Holzmann UWS 3 Universal Tool Grinder is designed for precision sharpening. Below is an image illustrating the

general appearance of the machine.



Figure 1: Holzmann UWS 3 Universal Tool Grinder. This image shows the main unit with its grey body, red grinding head assembly, and a flexible work light. Key features visible include the power switch, adjustment knobs, and tool holding fixtures.

The grinder features a robust base, a main motor housing, a grinding wheel enclosure, and a versatile tool holding system with multiple adjustment points for precise angle setting. A flexible work light is integrated to illuminate the grinding area.

4. SETUP

Proper setup is crucial for safe and accurate operation.

1. **Unpacking:** Carefully remove the grinder and all accessories from the packaging. Inspect for any shipping damage.
2. **Mounting:** Securely mount the grinder to a sturdy workbench using appropriate bolts and fasteners. Ensure the workbench can support the machine's weight (46 kg net).
3. **Power Connection:** Connect the grinder to a grounded 230 V, 50 Hz power outlet. Ensure the power switch is in the 'OFF' position before plugging in.
4. **Accessory Installation:** Install the appropriate clamps, drill adapter, front adapter for cutters, or adapter for irons as required for the specific tool you intend to sharpen. Ensure all attachments are securely fastened.
5. **Grinding Wheel Check:** Verify that the corundum grinding wheel (100 x 50 x 20 mm) is correctly installed and free from cracks or damage.

5. OPERATING INSTRUCTIONS

Follow these steps for effective and safe tool sharpening.

1. **Tool Selection and Preparation:** Choose the correct adapter for the tool to be sharpened (e.g., drill adapter for drills 3-16 mm, clamps for other tools). Clean the tool thoroughly.
2. **Angle Adjustment:** Utilize the grinder's adjustment mechanisms to set the desired sharpening angles. The UWS 3 allows for conical sharpening from 0 to 180°, back angles from 0 to 45°, and negative angles from 0 to 25°. Refer to the tool manufacturer's specifications for optimal angles.
3. **Secure the Tool:** Firmly secure the tool in the chosen adapter. Ensure it is stable and will not shift during grinding.
4. **Power On:** Switch the grinder ON using the main power switch. Allow the grinding wheel to reach its full operating speed of 5000 rpm before beginning to grind.
5. **Grinding Process:** Gently bring the tool into contact with the grinding wheel. Apply light, consistent pressure. Move

the tool smoothly across the grinding surface to achieve an even grind. Avoid excessive pressure, which can overheat the tool and damage the grinding wheel.

6. **Cooling:** For heat-sensitive tools, periodically remove the tool from the grinding wheel to allow it to cool, or use a suitable cooling agent if applicable.
7. **Inspection:** Regularly inspect the sharpened edge to ensure the desired profile and sharpness are achieved.
8. **Power Off:** Once sharpening is complete, switch the grinder OFF and wait for the grinding wheel to come to a complete stop before removing the tool.

6. MAINTENANCE

Regular maintenance ensures the longevity and performance of your Holzmann UWS 3.

- **Cleaning:** After each use, disconnect the power and clean the machine to remove grinding dust and debris. Use a brush or compressed air.
- **Grinding Wheel Inspection:** Regularly inspect the grinding wheel for wear, cracks, or glazing. Replace worn or damaged wheels immediately.
- **Lubrication:** Periodically lubricate moving parts and adjustment mechanisms according to the manufacturer's recommendations (if specified in a more detailed manual).
- **Fastener Check:** Ensure all bolts, nuts, and fasteners are tight. Retighten as necessary.
- **Electrical Cord:** Inspect the power cord for any damage or fraying. Replace if necessary.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Machine does not start:**
 - Check power connection and outlet.
 - Ensure the power switch is fully engaged.
 - Inspect the power cord for damage.
- **Poor sharpening results (uneven edge, dullness):**
 - Verify correct angle settings for the tool.
 - Ensure the tool is securely held and not moving during grinding.
 - Check the grinding wheel for wear or glazing; dress or replace if needed.
 - Apply consistent, light pressure during grinding.
- **Excessive vibration:**
 - Ensure the grinder is securely mounted to the workbench.
 - Check the grinding wheel for balance or damage; replace if necessary.
 - Verify all machine components and fasteners are tight.
- **Overheating of tool:**
 - Reduce grinding pressure.
 - Grind in shorter intervals, allowing the tool to cool.

If problems persist, contact qualified service personnel.

8. SPECIFICATIONS

Feature	Specification
Model	UWS3_230V
Voltage - Frequency	230 V - 50 Hz
Motor Power S1 (100%)	370 W
Rotation Speed	5000 rpm
Grinding Wheel Dimensions	100 x 50 x 20 mm
Drill Diameter (min./max.)	3 to 16 mm
Grinding Diameter	25 mm
Conical Sharpening	0 to 180°
Back Angle	0 to 45°
Negative Angle	0 to 25°
Net Weight	46 Kg
Gross Weight	52 Kg
Package Dimensions	550 x 450 x 470 mm
Included Accessories	Clamps (4, 6, 8, 10, 12 mm), Drill Adapter, Front Adapter for Cutters, Adapter for Irons, Corundum Grinding Wheel
Standard	CE

9. WARRANTY AND SUPPORT

The Holzmann UWS 3 Universal Tool Grinder comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects but excludes wear parts. Please retain your proof of purchase for warranty claims.

For technical support, spare parts, or warranty inquiries, please contact your authorized Holzmann dealer or the customer service department. Provide your model number (UWS3_230V) and a detailed description of the issue when seeking assistance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question