

Scheppach TIGER 2500

Scheppach Tiger 2500 Wet Grinder

INSTRUCTION MANUAL

1. Introduction

The Scheppach Tiger 2500 Wet Grinder is engineered for precise and efficient sharpening of various tools. Its design incorporates a slow-running, water-cooled corundum grinding stone and a leather honing wheel, ensuring tools maintain their temper and achieve a perfectly polished, burr-free edge. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Tiger 2500.

This machine is ideal for craftsmen, DIY enthusiasts, and training workshops, providing professional sharpening results without extensive prior experience.

2. Safety Instructions

Always observe basic safety precautions when operating electrical appliances to reduce the risk of fire, electric shock, and personal injury.

- **Read the Manual:** Familiarize yourself with all instructions and warnings before operation.
- **Work Area:** Keep your work area clean, well-lit, and free of clutter. Do not operate in damp or wet locations.
- **Electrical Safety:** Ensure the power supply matches the machine's requirements (230 Volts, 200 Watts). Do not use damaged cords or plugs.
- **Personal Protective Equipment:** Always wear safety glasses. Gloves are recommended for handling sharp tools.
- **Stability:** Place the grinder on a stable, level surface to prevent tipping or movement during operation.
- **Water Trough:** Ensure the water trough is correctly filled before starting and regularly checked during operation to prevent overheating of tools.
- **Tool Handling:** Always hold tools firmly against the grinding stone or honing wheel. Avoid applying excessive pressure.
- **Maintenance:** Disconnect the power supply before performing any maintenance or cleaning.
- **Children and Bystanders:** Keep children and unauthorized persons away from the operating machine.

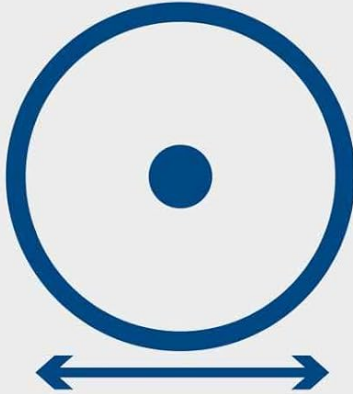
3. Product Components



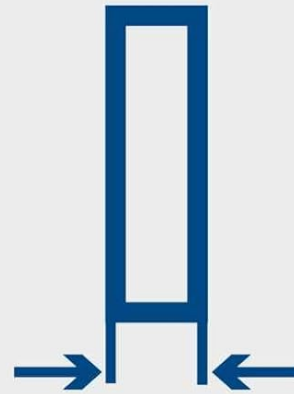
Figure 3.1: The Scheppach Tiger 2500 Wet Grinder with its primary components and included accessories.

- **Corundum Grinding Stone:** A large, slow-rotating stone (Ø250mm, K220 grit) that runs in a water bath to prevent overheating.
- **Leather Honing Wheel:** Used for removing burrs and polishing the cutting edge to a fine finish.
- **Water Trough:** Holds water for cooling the grinding stone and preventing temper loss in tools.
- **Universal Support Bar:** Provides a stable platform for various jigs and tools during sharpening.
- **Universal Grinding Jig 70:** Included accessory for sharpening straight edges, plane irons, and chisels.
- **Angle Gauge:** Included accessory for accurately setting the correct sharpening angle.
- **Honing Paste:** Used with the leather honing wheel for final polishing.
- **Motor:** 200W induction motor designed for continuous operation.

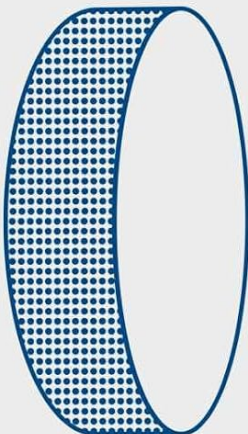
**250 mm
Edelkorund-Schleifstein**



**50 mm Edelkorund -
Schleifsteinbreite**



Schleifsteinkörnung - 220 K



**Schleifsteinaufnahme:
12 mm**

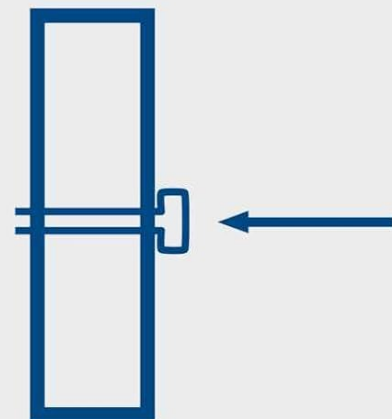
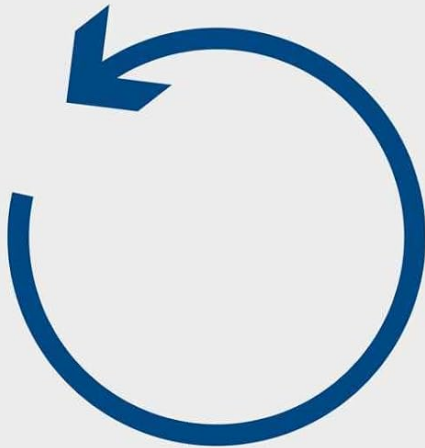


Figure 3.2: Specifications of the 250 mm corundum grinding stone, including its 50 mm width, K220 grit, and 12 mm bore.

Drehzahl 115/min



**Lederabziehscheibe
200 x 30 mm**



Figure 3.3: Specifications of the leather honing wheel, showing its 200 x 30 mm dimensions and 115 RPM rotation speed.

4. Setup

1. **Unpacking and Inspection:** Carefully remove all components from the packaging. Inspect the machine and accessories for any signs of damage during transit. Report any damage immediately to your supplier.
2. **Placement:** Position the grinder on a firm, level, and stable workbench or surface. Ensure there is adequate space around the machine for safe operation and tool manipulation.
3. **Fill Water Trough:** Fill the water trough with clean water until the grinding stone is submerged approximately 1-2 cm (0.4-0.8 inches). This ensures proper cooling during operation.
4. **Attach Universal Support:** Mount the universal support bar into the designated holes on the machine. Secure it firmly with the locking knobs. This bar will hold various jigs and guides.
5. **Power Connection:** Connect the power cord to a suitable grounded electrical outlet (230V). Ensure the power switch is in the 'OFF' position before plugging in.

5. Operating Instructions

The Tiger 2500 operates at a slow speed with water cooling, which is crucial for maintaining the temper of your tools and achieving a superior edge.



ANWENDUNGSBEISPIELE GEEIGNET FÜR

Drechselwerkzeug



Scheren



Äxte



Messer

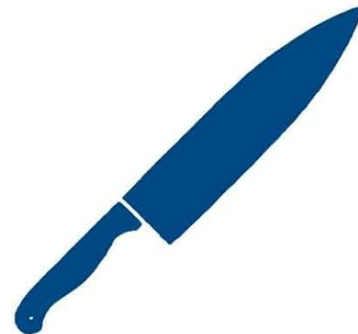


Figure 5.1: The grinder is suitable for sharpening woodturning tools, scissors, axes, and knives.

INKLUSIVE ZUBEHÖR



Universalvorrichtung geeignet für viele gerade Standardwerkzeuge.



Die Abziehpaste dient zur Politur des Werkstücks.



Die Winkellehre ermöglicht das schnelle Einstellen des erforderlichen Schleifwinkels.

Figure 5.2: Included accessories: Universal Jig for straight edges, honing paste for polishing, and Angle Gauge for setting the correct sharpening angle.

5.1. Basic Grinding Process

1. **Power On:** Press the green 'ON' button. The grinding stone will begin to rotate slowly.
2. **Set Angle:** Use the included angle gauge to determine and set the desired sharpening angle for your tool. Adjust the height of the universal support bar until the tool, when placed on the stone, matches the angle on the gauge.
3. **Grinding:** Gently bring the tool into contact with the rotating grinding stone. Apply light, consistent pressure. Move the tool slowly and evenly across the stone to ensure uniform material removal. The water will keep the tool cool.
4. **Check for Burr:** Continue grinding until a small burr (a thin wire edge) forms along the entire length of the cutting edge on the opposite side. This indicates that you have ground the entire bevel.

5.2. Using the Universal Grinding Jig 70

The Universal Grinding Jig 70 is designed for sharpening chisels, plane irons, and other tools with straight edges.

- Insert the tool into the jig and tighten the clamping screws securely.

- Place the jig onto the universal support bar.
- Adjust the support bar height to achieve the correct angle using the angle gauge.
- Slide the jig back and forth along the support bar, ensuring the tool maintains consistent contact with the grinding stone.

5.3. Honing and Polishing

After grinding, the leather honing wheel is used to remove the burr and polish the edge to razor sharpness.

Die Lederscheibe beseitigt den Grat und sorgt somit für eine perfekte Schärfe.



Figure 5.3: The leather honing wheel removes the burr and provides a perfectly sharp edge.

Bruchsicherer Wassertank verhindert Ausglühen der Schneide.



Figure 5.4: The robust water tank prevents the cutting edge from overheating and losing its temper.

1. **Apply Honing Paste:** Apply a small amount of the included honing paste to the leather honing wheel. Spread it evenly.
2. **Honing:** With the machine running, gently bring the tool's cutting edge into contact with the rotating leather wheel. The wheel rotates away from the edge.
3. **Alternate Sides:** Alternate honing both sides of the bevel until the burr is completely removed and the edge feels smooth and sharp.

5.4. Optional Accessories (Not Included)

ANWENDUNG MIT OPTIONALEM ZUBEHÖR (NICHT ENTHALTEN)



Figure 5.5: Optional jigs for sharpening curved blades, tubes, hollow irons, and knives with blade lengths from 40 mm to 100 mm.

ANWENDUNG MIT OPTIONALEM ZUBEHÖR (NICHT ENTHALTEN)



Schleift Äxte bis 170 mm Kopflänge.



Ideal für alle geraden Scheren und Heckenscheren.

Figure 5.6: Optional jigs for sharpening axes up to 170 mm head length and all straight scissors and hedge trimmers.

Scheppach offers a range of optional jigs and accessories to expand the versatility of your Tiger 2500, allowing for the sharpening of specialized tools such as carving tools, axes, and scissors. Refer to the Scheppach website or your dealer for more information on available accessories.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Tiger 2500 Wet Grinder.

- **Drain Water Trough:** After each use, or at least daily, drain the water from the trough to prevent algae growth and corrosion. Clean the trough with a brush to remove any grinding residue.
- **Refill Water:** Always use fresh, clean water when operating the machine.
- **Grinding Stone Care:** Over time, the grinding stone may become uneven or glazed. Use a stone dresser (often an optional accessory) to true and clean the surface, restoring its cutting ability.
- **Leather Honing Wheel:** Periodically reapply honing paste to the leather wheel as needed. If the wheel becomes excessively worn or damaged, it can be replaced.
- **General Cleaning:** Wipe down the machine's exterior with a damp cloth. Do not use harsh chemicals or abrasive

cleaners.

- **Storage:** Store the machine in a dry, dust-free environment when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
Machine does not start	No power supply; Damaged power cord/plug; Faulty switch	Check power connection and outlet; Inspect cord/plug for damage; Contact qualified service personnel if switch is suspected.
Uneven sharpening / Tool not clamping straight	Tool not properly secured in jig; Jig not correctly positioned on support bar; Support bar not level; Worn grinding stone	Ensure tool is clamped tightly and squarely; Verify jig is seated correctly; Check support bar for levelness; Dress or replace grinding stone if worn.
Excessive vibration	Machine not on stable surface; Grinding stone out of balance or damaged	Place machine on a firm, level surface; Inspect grinding stone for cracks or chips; Dress the stone to rebalance it, or replace if severely damaged.
Poor sharpening results / Slow material removal	Grinding stone glazed or clogged; Insufficient water; Incorrect sharpening angle; Worn honing wheel	Dress the grinding stone; Ensure water trough is filled; Re-check angle with angle gauge; Reapply honing paste or replace honing wheel.

8. Technical Specifications

Specification	Value
Model	TIGER 2500
Brand	Scheppach
Power Source	Corded Electric
Voltage	230 Volts
Wattage	200 watts
Grinding Stone Diameter	Ø250 mm
Grinding Stone Grit	220 K
Leather Honing Wheel Dimensions	200 x 30 mm
Maximum Rotational Speed	90 RPM (Grinding Stone)
Item Weight	16 Kilograms (35.2 pounds)
Product Dimensions (L x W x H)	12.8" x 12.6" x 13.19"

Specification	Value
Material	Aluminium Oxide, Leather

9. Warranty and Support

Scheppach provides a commitment to quality and support for its products.

- **Return Policy:** This product is typically eligible for returns within 30 days of purchase, subject to the retailer's specific return policy. Please consult your purchase documentation for details.
- **Spare Part Availability:** EU spare parts are available for a duration of 7 years, ensuring long-term usability and repairability of your machine.
- **Customer Support:** For technical assistance, warranty claims, or inquiries about spare parts, please contact Scheppach customer service or your authorized dealer. Keep your proof of purchase handy when contacting support.

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Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

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