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› LUX-TOOLS Pro 180mm Universal Pliers with VDE Insulated Handles Instruction Manual

LUX-TOOLS 6073670

LUX-TOOLS Pro 180mm Universal Pliers with VDE Insulated Handles Instruction Manual

Model: 6073670

1. INTRODUCTION

Thank you for choosing the LUX-TOOLS Pro 180mm Universal Pliers. This high-quality tool is designed for a wide range of tasks in electrical installations, workshops, and around the home. Featuring VDE-certified insulated handles, these pliers provide enhanced safety when working with electrical components up to 1000V. This manual provides essential information for safe and effective use, maintenance, and care of your new tool.



Figure 1: LUX-TOOLS Pro 180mm Universal Pliers. This image shows the pliers in a closed position, highlighting the VDE insulated handles in red and yellow, and the robust metal head.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent injury and damage to the tool or workpiece.

- **VDE Insulation:** These pliers are VDE certified for work on live parts up to 1000V AC. Always verify the insulation integrity before use. Do not use if insulation is damaged.
- **Personal Protective Equipment:** Always wear appropriate eye protection when cutting or working with wires.
- **Intended Use:** Use the pliers only for gripping, bending, cutting, and screwing as specified. Do not use as a hammer or pry bar.
- **Cleanliness:** Keep the tool clean and free from grease or oil to ensure a secure grip and prevent electrical conductivity issues.
- **Storage:** Store the pliers in a dry place, out of reach of children.
- **Inspection:** Before each use, inspect the pliers for any signs of wear, damage, or corrosion. Pay particular attention to the cutting edges and handle insulation.

3. PRODUCT FEATURES

The LUX-TOOLS Pro Universal Pliers are engineered for performance and durability:

- **Optimized Lever Action:** Designed for powerful and effortless work, transferring manual force efficiently.
- **VDE Insulated Handles:** Ergonomic multi-component handles, insulated up to 1000V, certified according to DIN ISO 5746 and VDE standards.
- **Special Tool Steel:** Forged from high-quality special tool steel for exceptional strength and longevity.
- **Induction-Hardened Cutting Edges:** Ensures precise and durable cutting performance for various wire types.
- **Versatile Gripping Zones:** Multiple gripping zones for flat and round materials, including a dedicated hexagonal screw and nut gripping area.



Figure 2: Diagram illustrating key features of the pliers, including VDE-certified handles, gripping zones for various cross-sections, hexagonal screws/nuts, and cutting edges for soft to hard wire.

4. SETUP

The LUX-TOOLS Universal Pliers require minimal setup. Upon receiving your tool:

1. **Unpack:** Carefully remove the pliers from their packaging.
2. **Initial Inspection:** Visually inspect the pliers for any shipping damage. Check the integrity of the VDE insulation on the handles. Ensure the jaws open and close smoothly.
3. **Familiarization:** Familiarize yourself with the different gripping zones and cutting edges as shown in the "Product Features" section.

5. OPERATING INSTRUCTIONS

These universal pliers are designed for multiple applications:

5.1. Gripping and Holding

Use the serrated jaws for securely gripping various materials. The different profiles allow for holding both flat and round objects.

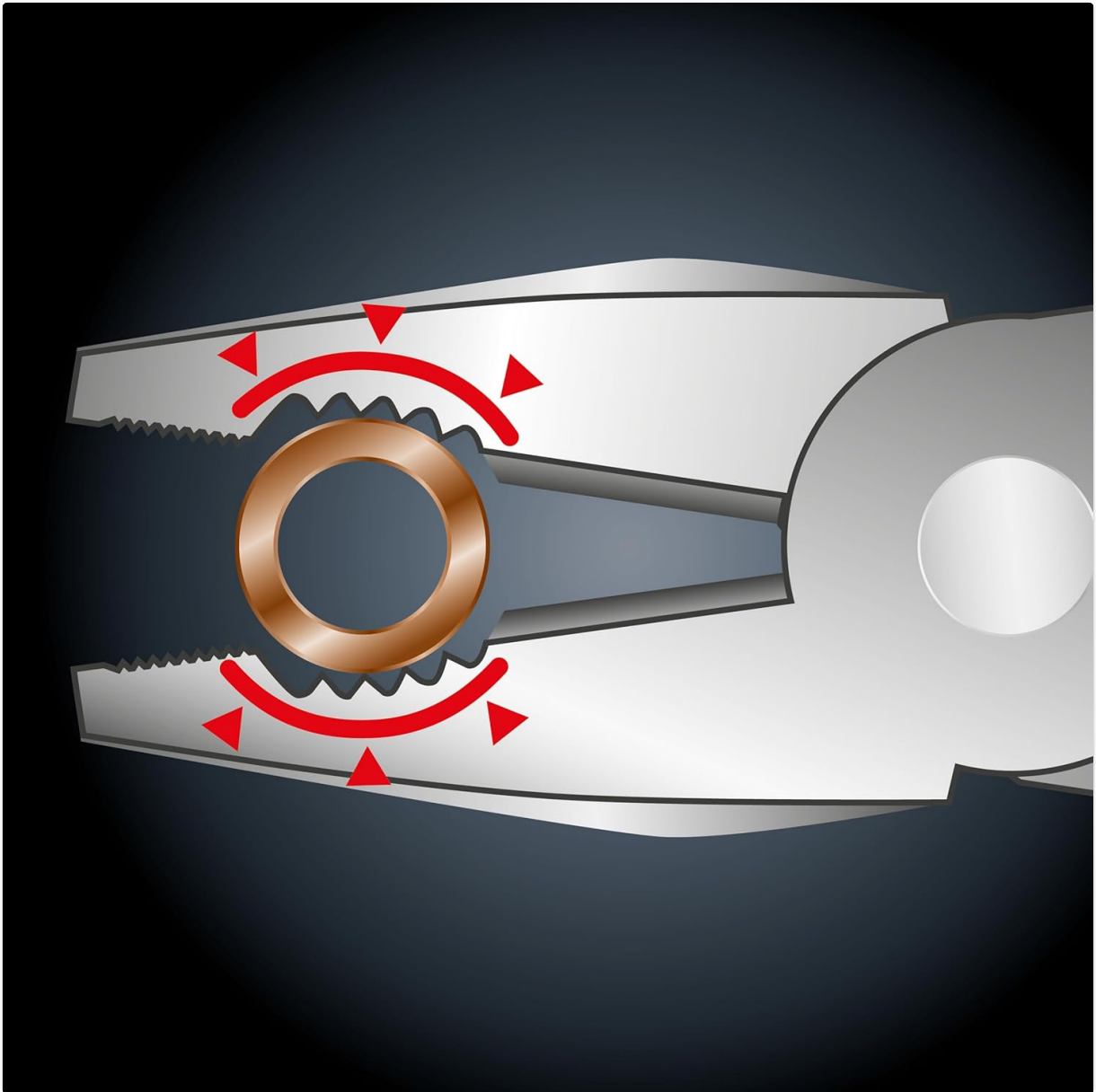


Figure 3: Illustration demonstrating the pliers gripping a round object. The red arrows indicate the pressure points for secure holding.

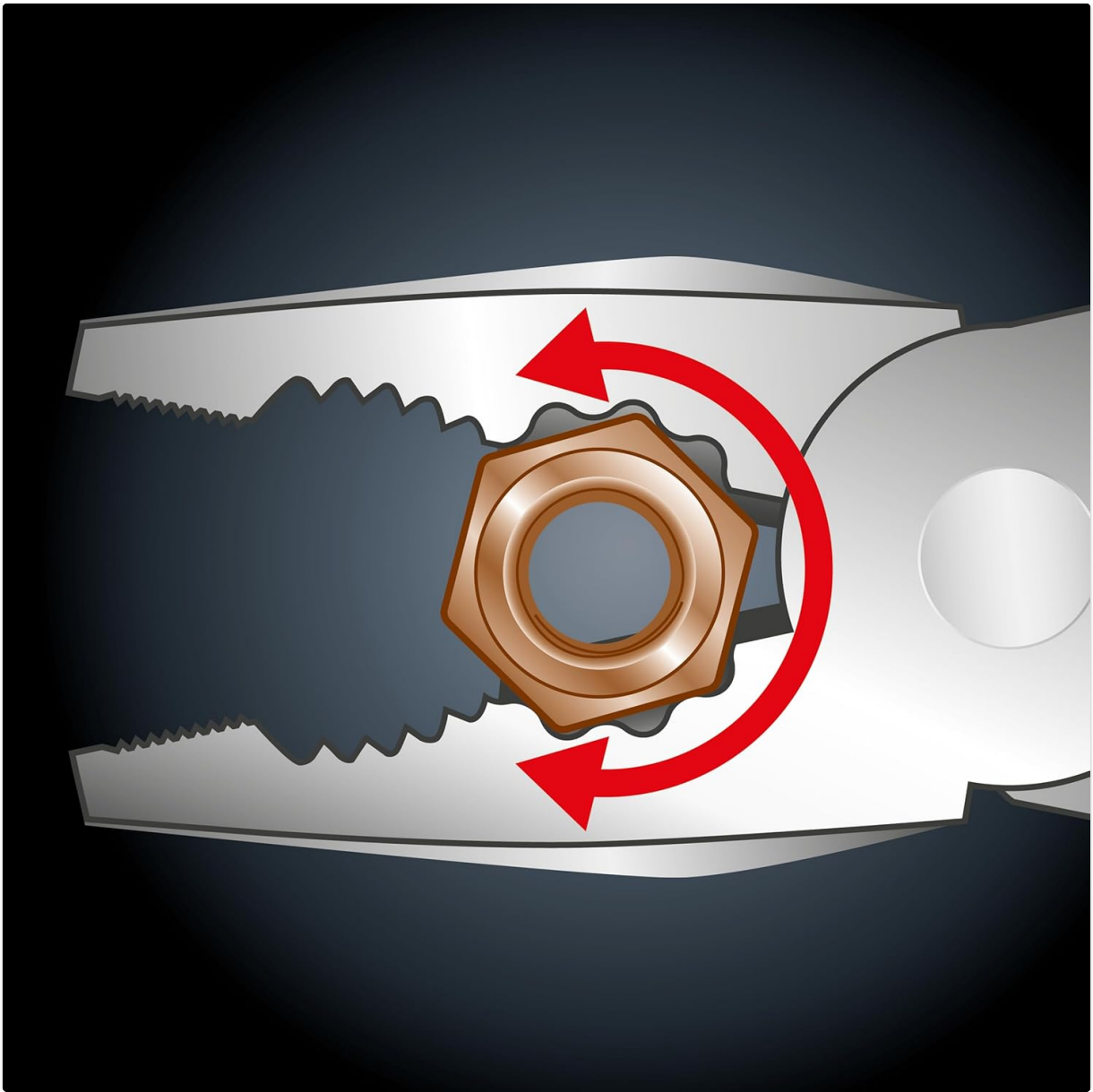


Figure 4: Illustration showing the pliers gripping a hexagonal nut. The red arrows indicate the rotational force applied for tightening or loosening.

5.2. Cutting Wires and Cables

The induction-hardened cutting edges are suitable for various wire types. Ensure the wire fits within the cutting capacity of the pliers.

- **Soft Wire:** Up to Ø 5.2 mm
- **Medium-Hard Wire:** Up to Ø 3.4 mm
- **Hard Wire:** Up to Ø 2.2 mm
- **Cable:** Up to Ø 12 mm

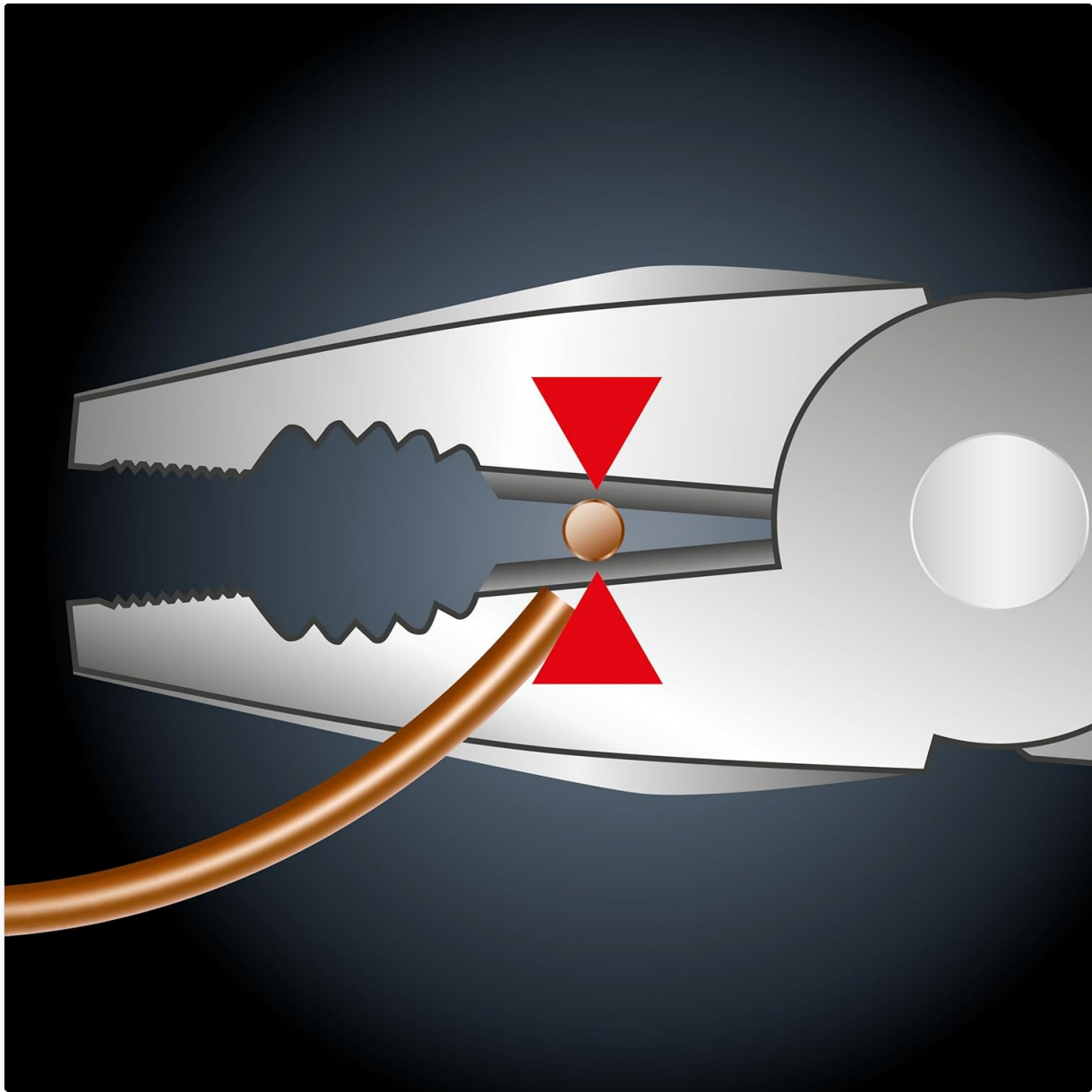


Figure 5: Illustration depicting the pliers cutting a wire. The red triangles indicate the precise cutting action of the hardened edges.

Procedure: Position the wire or cable firmly between the cutting edges. Apply steady pressure to the handles until the cut is complete. Avoid twisting the pliers during cutting.

5.3. Bending

Use the flat gripping surfaces to bend wires or small metal sheets to the desired angle. For precise bends, apply even pressure along the bending line.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your LUX-TOOLS Universal Pliers.

- **Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove dirt, dust, and debris. For stubborn grime, a slightly damp cloth can be used, ensuring the tool is thoroughly dried afterwards.
- **Lubrication:** Periodically apply a small amount of light machine oil to the pivot joint to ensure smooth operation. Wipe off any excess oil.
- **Storage:** Store the pliers in a dry, clean environment to prevent rust and corrosion. Avoid storing in damp or humid conditions.

- **Insulation Care:** Do not expose the VDE insulated handles to extreme heat, sharp objects, or harsh chemicals, as this can compromise their protective properties.

7. TROUBLESHOOTING

If you encounter issues with your pliers, consider the following:

- **Stiff Joint:** If the pliers feel stiff, apply a drop of light machine oil to the pivot point and work the joint back and forth until it moves freely.
- **Reduced Cutting Performance:** Ensure you are not attempting to cut materials beyond the specified capacity. If cutting edges appear dull or damaged, the tool may require professional sharpening or replacement.
- **Damaged Insulation:** If the VDE insulation on the handles is cracked, cut, or otherwise compromised, **do not use the pliers for electrical work**. Replace the tool immediately to ensure safety.
- **Rust:** If minor rust appears, it can often be removed with a fine abrasive pad and then lubricated. For significant rust, consider replacement.

8. SPECIFICATIONS

Feature	Detail
Brand	LUX-TOOLS
Model Number	6073670
Size	180 mm
Material	Special tool steel, insulated handles (foam)
Insulation	VDE certified up to 1000V
Standards Met	DIN ISO 5746, VDE certified
Cutting Capacity (Soft Wire)	Up to Ø 5.2 mm
Cutting Capacity (Medium-Hard Wire)	Up to Ø 3.4 mm
Cutting Capacity (Hard Wire)	Up to Ø 2.2 mm
Cutting Capacity (Cable)	Up to Ø 12 mm
Product Dimensions (L x W x H)	18 x 6.5 x 3 cm
Weight	300 grams
Manufacturer	Emil Lux GmbH & Co. KG

9. WARRANTY AND SUPPORT

LUX-TOOLS products are manufactured to high-quality standards. While specific warranty details are not provided in this manual, please retain your proof of purchase. For any questions, technical support, or warranty claims, please contact the manufacturer, Emil Lux GmbH & Co. KG, or your point of purchase. Information regarding spare parts availability is not provided.

