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WilTec 61579

Wiltec 300 mm Manual Lever Shears Instruction Manual

Brand: WilTec

Model: 61579

1. INTRODUCTION

This instruction manual provides detailed guidance for the safe and effective operation of the Wiltec 300 mm Manual Lever Shears. Designed for precise cutting of sheet metal, round steel, flat steel, and metal plates, these shears feature a high-quality hardened steel blade for optimal results and durability. Key safety features include an integrated safety spring to prevent unintended blade closure and a stable frame for secure operation. The ergonomic Softgrip handle ensures comfortable use with minimal effort.

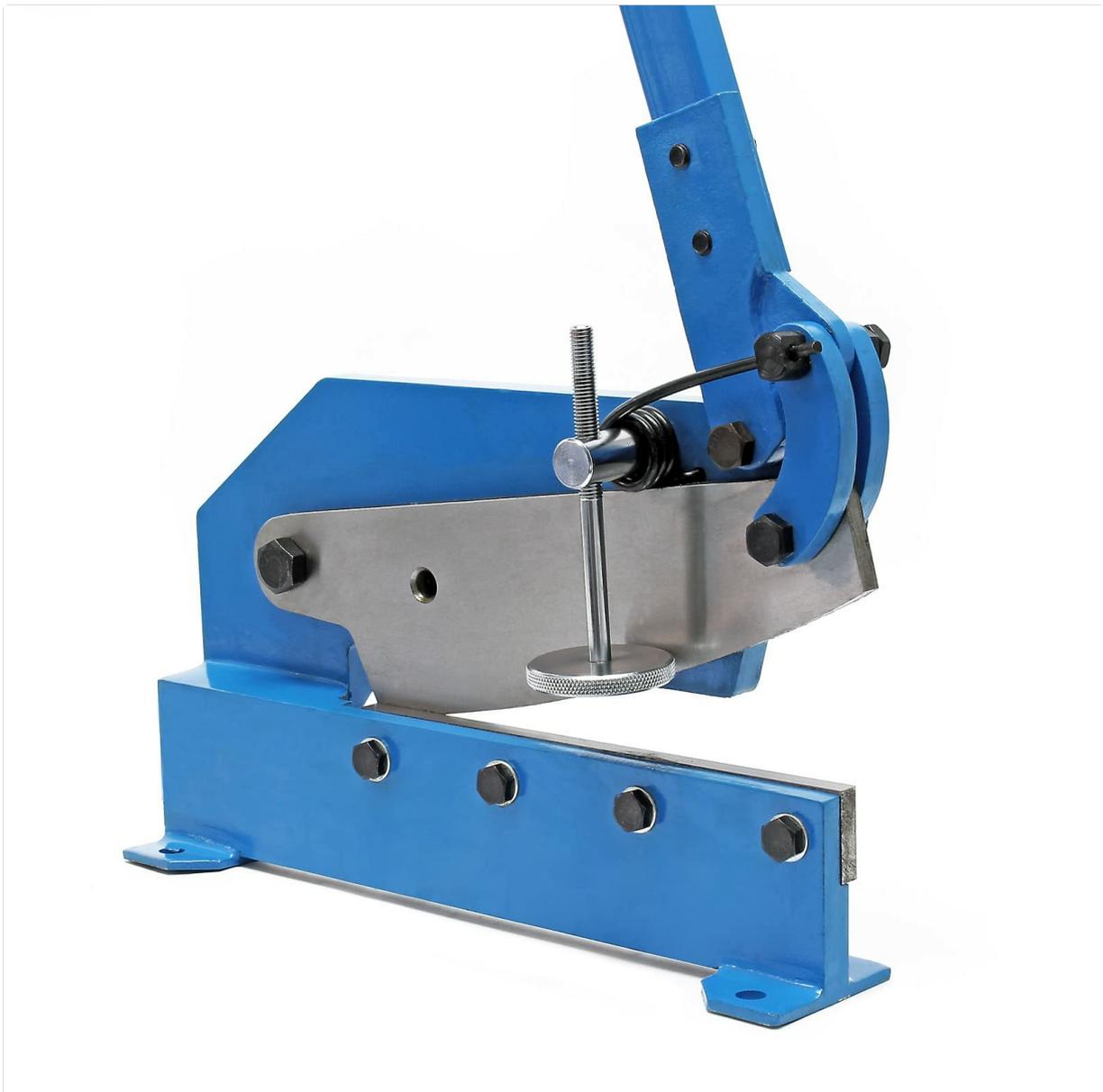


Image 1.1: Full view of the Wiltec 300 mm Manual Lever Shears, showcasing its robust blue frame and black ergonomic handle.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating any machinery. Adhere to the following guidelines to prevent injury and ensure proper use of the shears:

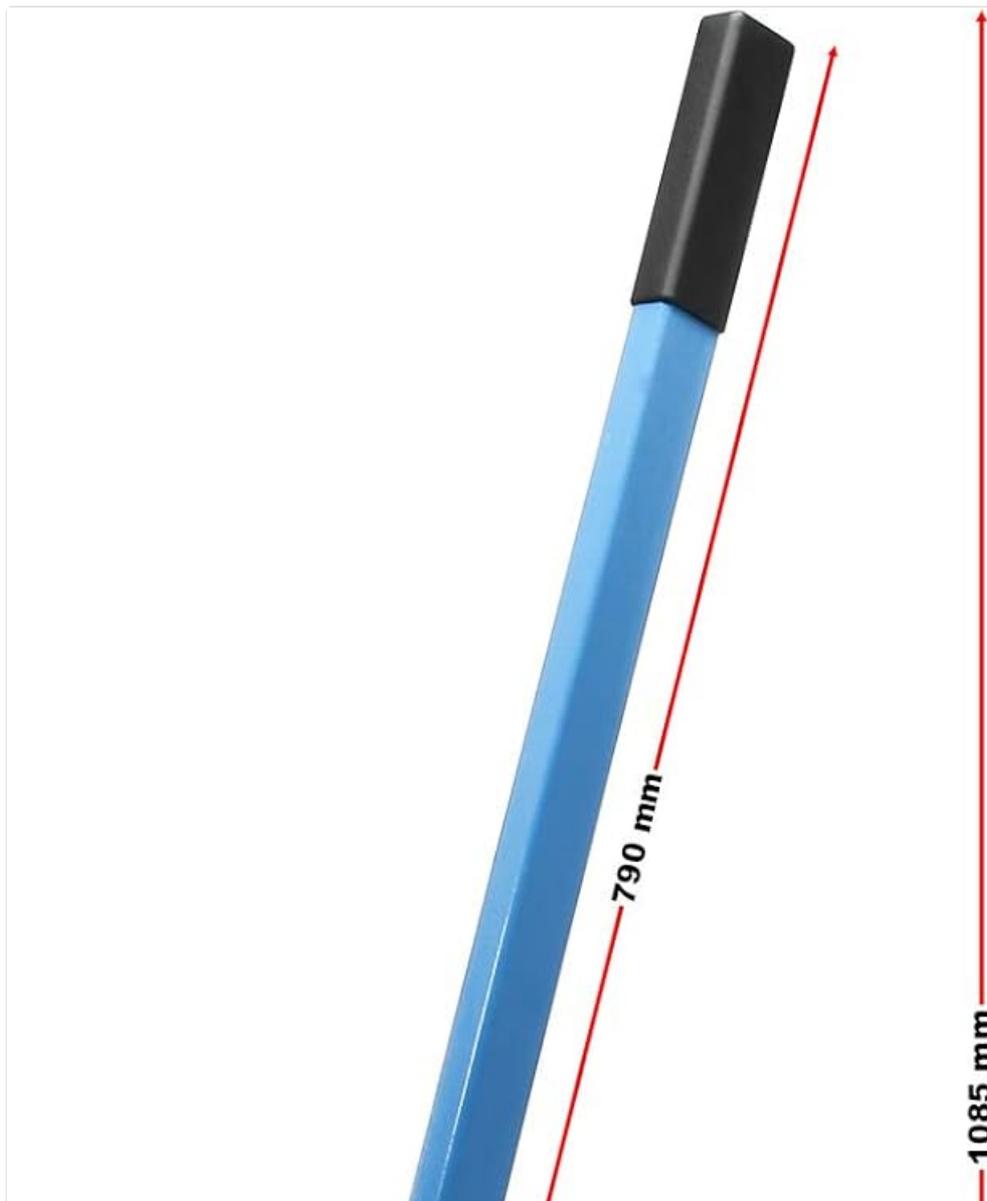
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses to protect against flying debris and heavy-duty gloves to prevent cuts.
- **Secure Mounting:** Ensure the shears are securely mounted to a stable workbench or surface before any operation. Movement during cutting can lead to accidents.
- **Hand Placement:** Keep hands and fingers clear of the cutting blades and the cutting path at all times. The blades are extremely sharp.
- **Material Capacity:** Do not attempt to cut materials that exceed the specified capacity of the shears. Overloading can damage the tool and cause injury.
- **Blade Condition:** Regularly inspect the cutting blades for sharpness, chips, or any damage. Dull or damaged blades can cause uneven cuts and require more force, increasing risk.
- **Work Area:** Maintain a clean, well-lit, and organized work area. Clutter can lead to trips or accidental contact with the tool.

- **Awareness:** Do not operate the shears if you are fatigued, under the influence of drugs, alcohol, or medication that impairs judgment.
- **Unauthorized Access:** Keep children and unauthorized persons away from the work area and the shears.
- **Safety Spring:** Verify that the integrated safety spring mechanism is functioning correctly to prevent unintended closure of the blades.

3. PRODUCT OVERVIEW AND COMPONENTS

The Wiltec Manual Lever Shears consist of several key components designed for efficient and safe metal cutting:

- **Main Frame:** The robust blue-colored body provides stability and houses the cutting mechanism.
- **Lever Handle:** The long blue handle with a black ergonomic grip is used to apply force for cutting.
- **Upper Blade:** The movable blade that descends to perform the cut.
- **Lower Blade:** The stationary blade against which the material is cut.
- **Material Clamp / Safety Spring:** A mechanism designed to hold the material securely and prevent accidental blade closure.
- **Mounting Base:** The base with pre-drilled holes for securing the shears to a workbench.



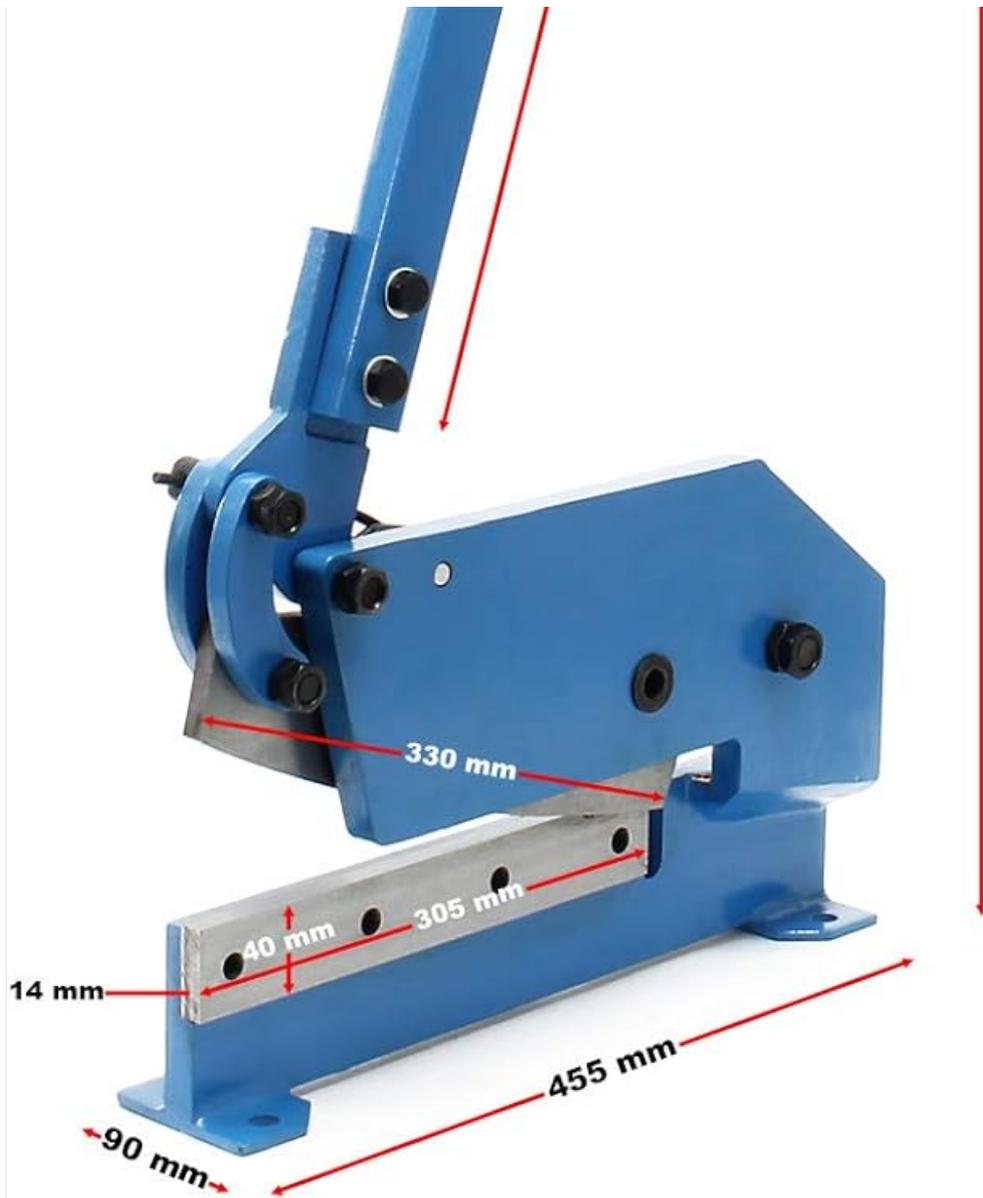


Image 3.1: Close-up view of the hardened steel cutting blades, showing their sharp edges and robust construction.

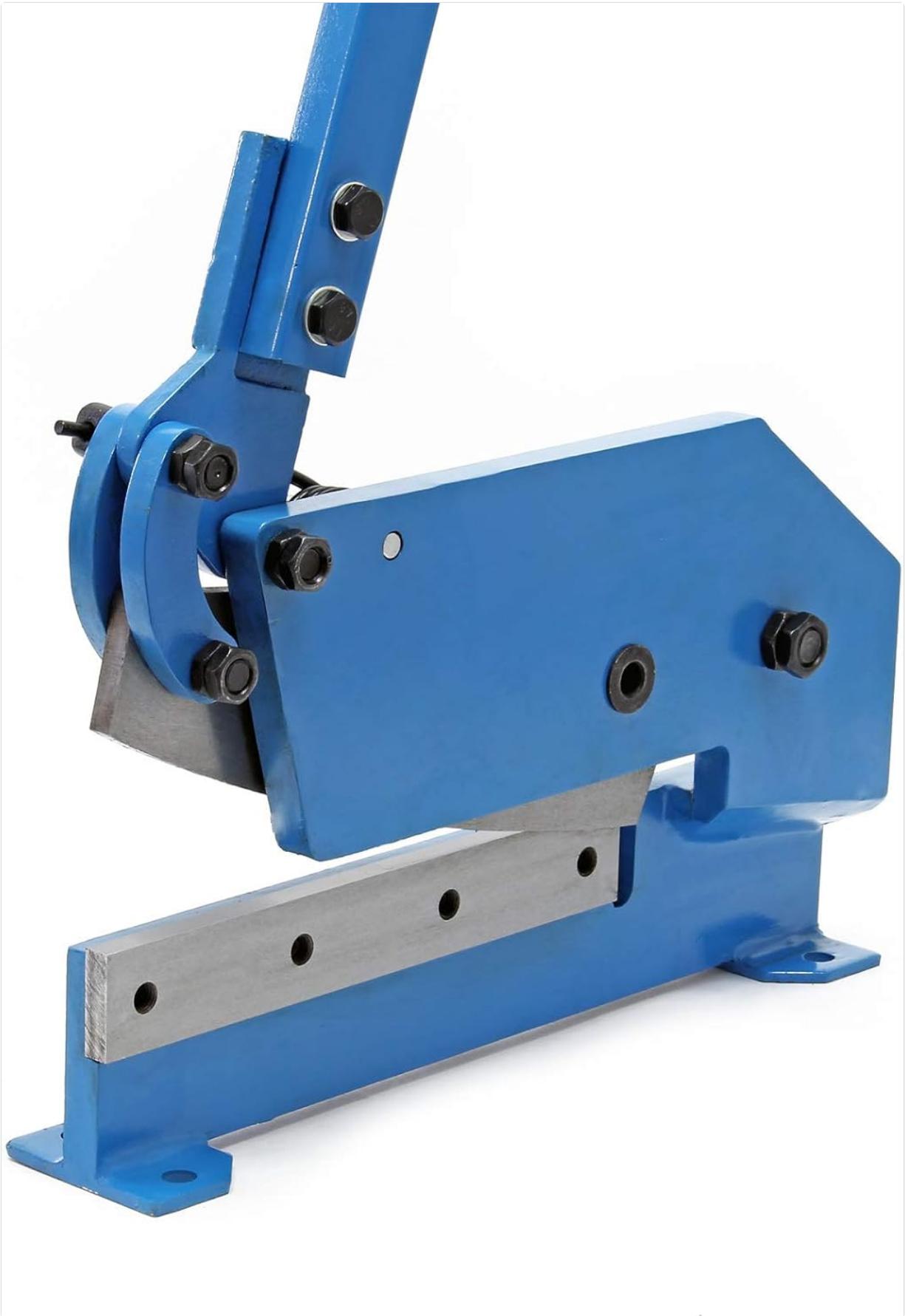


Image 3.2: Detail of the material clamp and safety spring mechanism, which secures the workpiece and prevents accidental blade movement.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your Wiltec Manual Lever Shears.

1. **Unpacking:** Carefully remove the shears from their packaging. Inspect the tool for any signs of shipping damage. Report any damage to the supplier immediately.
2. **Mounting Location:** Select a sturdy, level workbench or surface that can safely support the shears' weight (approximately 25 kg) and withstand the forces generated during cutting operations.
3. **Securing the Shears:** The base of the shears is equipped with pre-drilled holes. Use appropriate heavy-duty bolts, washers, and nuts (not included) to firmly secure the shears to your chosen workbench. Ensure all fasteners are tightened securely to prevent any movement or tipping during use.
4. **Clearance:** Verify that there is ample space around the shears for the lever handle to move freely through its entire range of motion without encountering any obstructions.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and efficient cutting with your manual lever shears:

1. **Preparation:** Before starting, confirm that the shears are securely mounted and that you are wearing all necessary PPE (safety glasses, gloves). Ensure the material to be cut is clean and free of burrs or debris.
2. **Material Placement:** Lift the lever handle to open the cutting blades. Carefully position the material (sheet metal, round steel, or flat steel) onto the lower blade, aligning your desired cut line with the upper blade. Ensure the material lies flat and is stable.
3. **Clamping:** If your shears model includes a material clamp or safety spring mechanism, adjust it to firmly hold the material in place. This prevents the workpiece from shifting during the cut and enhances safety and precision.
4. **Cutting:** Grasp the ergonomic handle firmly. Apply steady, controlled downward pressure to the lever. Allow the upper blade to smoothly pass through the material. Avoid sudden or jerky movements, especially with thicker materials, as consistent force yields cleaner cuts.
5. **Post-Cut:** Once the cut is complete, release the lever handle. The integrated safety spring will assist in returning the blade to its open position. Carefully remove the cut material and any off-cuts. Inspect the cut edge for burrs and deburr if necessary using appropriate tools.

6. MAINTENANCE

Regular maintenance will extend the life of your Wiltec Manual Lever Shears and ensure optimal performance.

- **Cleaning:** After each use, clean the cutting blades and all moving parts to remove metal shavings, dust, and other debris. A stiff brush or compressed air can be used.
- **Lubrication:** Periodically apply a light machine oil to all pivot points, hinges, and sliding surfaces. This ensures smooth operation, reduces wear, and prevents rust.
- **Blade Inspection:** Regularly check the cutting blades for signs of wear, dullness, or damage (e.g., chips, nicks).
- **Blade Sharpening:** If the blades become dull, they can be professionally sharpened. It is recommended to consult a specialist for this service to maintain the correct cutting angle.
- **Blade Replacement:** Severely damaged or chipped blades should be replaced immediately. Using damaged blades can compromise cutting performance and safety.
- **Fastener Check:** Periodically inspect all bolts and nuts, particularly those securing the shears to the workbench and holding the blades in place. Tighten any loose fasteners.

- **Storage:** Store the shears in a dry, clean environment to prevent corrosion and protect them from dust and moisture.

7. TROUBLESHOOTING

If you encounter issues with your Wiltec Manual Lever Shears, refer to the following troubleshooting guide:

- **Problem: Uneven or Rough Cuts**
 - **Possible Cause:** Dull or damaged blades.
 - **Solution:** Inspect blades for sharpness and damage. Sharpen or replace if necessary.
 - **Possible Cause:** Material not held securely during cutting.
 - **Solution:** Ensure the material clamp is properly adjusted and tightened to hold the workpiece firmly.
 - **Possible Cause:** Insufficient or uneven pressure applied to the lever.
 - **Solution:** Apply steady, consistent pressure throughout the cutting stroke.
- **Problem: Difficulty Cutting Material**
 - **Possible Cause:** Material thickness exceeds the shear's maximum capacity.
 - **Solution:** Do not attempt to cut materials thicker than specified in the product specifications.
 - **Possible Cause:** Blades are dull, chipped, or misaligned.
 - **Solution:** Inspect, sharpen, or replace blades. Check for proper blade alignment.
 - **Possible Cause:** Lack of lubrication on moving parts.
 - **Solution:** Lubricate all pivot points and sliding surfaces as per maintenance instructions.
- **Problem: Shears Move or Wobble During Operation**
 - **Possible Cause:** Shears are not securely mounted to the workbench.
 - **Solution:** Re-tighten all mounting bolts to the workbench. Ensure the workbench itself is stable and robust.

8. SPECIFICATIONS

Key technical specifications for the Wiltec 300 mm Manual Lever Shears:

- **Model:** 61579
- **Brand:** WilTec
- **Cutting Length:** 300 mm
- **Overall Dimensions (approx.):** 1085 mm (height with handle up) x 455 mm (base length) x 90 mm (base width)
- **Weight:** 24.96 kg
- **Blade Material:** Hardened Steel
- **Color:** Blue/Grey/Black
- **Components Included:** Tool only
- **Batteries Required:** No
- **Country of Origin:** China







Image 8.1: Dimensional drawing of the Wiltec Manual Lever Shears, indicating key measurements for installation and planning.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Wiltec 300 mm Manual Lever Shears, please contact WilTec customer service directly. It is recommended to keep your purchase receipt and the product model number (61579) handy for faster service. Information regarding spare parts availability is not provided in this manual; please inquire with WilTec customer service for details on obtaining replacement components.