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› Stahlwille 220 12 x 14 Box-End Wrench Instruction Manual

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Model: 220 12 X 14 | Brand: Stahlwille

1. INTRODUCTION

This instruction manual provides essential information for the proper use, maintenance, and care of your Stahlwille 220 12 x 14 Box-End Wrench. Please read this manual thoroughly before using the tool to ensure safe and effective operation and to maximize its lifespan.

2. PRODUCT OVERVIEW

The Stahlwille 220 12 x 14 is an extra-long, double box-end wrench designed for professional applications. It features a 15° angled head for improved access in confined spaces and is manufactured from HPQ high-performance steel, ensuring durability and strength. The wrench is chrome-plated for corrosion resistance.



Figure 2.1: The Stahlwille 220 12 x 14 Box-End Wrench, showcasing its extra-long design and chrome finish. The tool is marked with "STAHLWILLE HPQ 220 MADE IN GERMANY".

2.1 Key Features

- **Double Box-End Design:** Provides two different wrench sizes (12 mm and 14 mm) on a single tool.
- **Extra Long:** Offers extended reach and increased leverage for stubborn fasteners.
- **15° Angled Head:** Facilitates access to fasteners in restricted areas, preventing knuckle scrapes.
- **HPQ High-Performance Steel:** Manufactured from high-quality steel for exceptional strength and longevity.
- **Chrome-Plated Finish:** Provides excellent corrosion resistance and easy cleaning.
- **SAE AS 954-E Compliant:** Meets specific American aerospace standards for quality and performance.



Figure 2.2: Logos indicating HPQ High-Performance Quality steel and the AS DRIVE system, which ensures optimal power transmission and protects fastener heads.

3. SPECIFICATIONS

Attribute	Value
Model Number	220 12 X 14
Wrench Sizes	12 mm x 14 mm
Length (L)	290 mm (28.7 cm)
Weight	162 g (0.16 kg)
Head Angle	15°
Material	HPQ High-Performance Steel
Finish	Chrome-plated
Standard Compliance	SAE AS 954-E
Dimensions (Product)	28.7 x 2 x 1.4 cm
Manufacturer Part Number	41031214
GTIN	04018754140381

3.1 Dimensional Diagram



Figure 3.1: Technical drawing illustrating the dimensions of the Stahlwille 220 wrench, including length (L), head thicknesses (a1, a2), head widths (d1, d2), and the 15° angle.

- **a1 (Head Thickness 1):** 9.5 mm
- **a2 (Head Thickness 2):** 9.5 mm
- **d1 (Head Width 1):** 18.3 mm
- **d2 (Head Width 2):** 20.7 mm

4. SAFETY INFORMATION

Always observe general safety precautions when using hand tools. Failure to do so may result in injury or damage to the tool or workpiece.

- Wear appropriate personal protective equipment (PPE), such as safety glasses, to protect against flying debris.
- Ensure the wrench size matches the fastener size precisely to prevent rounding of the fastener head and slippage.
- Do not use extension pipes or "cheater bars" on the wrench handle, as this can overload the tool and cause breakage or injury.
- Do not strike the wrench with a hammer or other object unless the tool is specifically designed for striking applications.
- Keep hands and fingers clear of pinch points.
- Inspect the wrench for any signs of damage, cracks, or wear before each use. Do not use damaged tools.
- Store tools in a clean, dry place, away from children.

5. OPERATING INSTRUCTIONS

The Stahlwille 220 box-end wrench is designed for tightening and loosening nuts and bolts. Its extra-long design provides enhanced leverage.

1. **Select Correct Size:** Identify the correct size of the fastener (12 mm or 14 mm) and select the corresponding end of the wrench. The wrench must fit snugly over the fastener head.
2. **Position the Wrench:** Place the box end fully onto the fastener head, ensuring it is seated completely to prevent slippage and damage to the fastener. The 15° angle can be utilized to gain better access in tight spaces.
3. **Apply Force:** Apply steady, firm pressure to the wrench handle. For loosening, apply force in a counter-clockwise direction. For tightening, apply force in a clockwise direction. Always pull the wrench towards you rather than pushing, to maintain better control and reduce the risk of injury if the wrench slips.
4. **Avoid Over-tightening:** Tighten fasteners to the manufacturer's specified torque values if available. Over-tightening can damage fasteners or components.

6. MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your Stahlwille wrench.

- **Cleaning:** After each use, wipe the wrench clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild solvent or degreaser can be used, followed by thorough drying.
- **Inspection:** Regularly inspect the wrench for any signs of wear, such as rounded corners on the box ends, cracks, bends, or corrosion.
- **Storage:** Store the wrench in a dry environment to prevent rust. A tool roll, toolbox, or wall-mounted rack is recommended to protect it from damage and keep it organized.
- **Lubrication:** No lubrication is required for this type of hand tool.

7. TROUBLESHOOTING

While the Stahlwille 220 wrench is a simple and robust tool, certain issues can arise from improper use or wear.

- **Wrench Slipping:** This usually indicates an incorrect wrench size, a worn fastener head, or improper seating of the wrench. Ensure the wrench fits snugly and is fully engaged with the fastener. Replace worn fasteners.
- **Rounded Fastener Head:** This occurs when the wrench slips or is the wrong size. Avoid using the wrench on already rounded fasteners, as this will worsen the damage. Use specialized tools for rounded fasteners.

- **Tool Damage (Bending/Breaking):** This is typically caused by excessive force, such as using extension pipes. Always use the tool within its intended limits. Replace any damaged tools immediately.

8. WARRANTY AND SUPPORT

Stahlwille tools are known for their high quality and durability. For specific warranty information, please refer to the official Stahlwille website or contact your authorized dealer. Keep your purchase receipt as proof of purchase. For technical support or inquiries, please contact Stahlwille customer service or your local distributor.

[Visit Stahlwille Official Website](#)

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