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› Stahlwille MANOSKOP 71AR/80 Indicating Torque Wrench User Manual

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1. PRODUCT OVERVIEW

The Stahlwille MANOSKOP 71AR/80 is an indicating torque wrench designed for precise torque application and measurement. It features a permanently installed ratchet and a trailer pointer dial for accurate readings across a range of 100-600 ft.lb.



This image displays the Stahlwille MANOSKOP 71AR/80 indicating torque wrench, featuring its long body, ratchet head on the left, and the trailer pointer dial mechanism on the right.

Key Features:

- Premium quality construction with an integrated force compensator in the handle (note: not for anticlockwise measurement).
- Equipped with a trailer pointer dial for easy and accurate peak torque readings.
- Offers versatile torque measurement with twin scales in N.m/ft.lb.
- Complies with German quality standard DIN EN ISO 6789-W:2017, ensuring high performance and reliability.
- Manufactured in Germany, reflecting over 160 years of tool-making expertise.

2. SAFETY INFORMATION

Read and understand all safety instructions before operating the torque wrench. Failure to follow these instructions may result in injury or damage to the tool or workpiece.

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using the torque wrench.
- Ensure the workpiece is securely clamped or stabilized before applying torque to prevent movement.
- Do not exceed the maximum specified torque capacity of the wrench (600 ft.lb or equivalent N.m). Overloading can damage the tool and compromise accuracy.

- Avoid dropping or subjecting the wrench to impact, as this can affect its calibration and accuracy.
- Keep the wrench clean and free from grease, oil, or other contaminants to maintain a secure grip and prevent slippage.
- Never use the torque wrench as a pry bar, hammer, or for any purpose other than applying and measuring torque.
- Store the wrench in a safe place, out of reach of children and unauthorized personnel.

3. SETUP

Follow these steps to prepare your Stahlwille MANOSKOP 71AR/80 torque wrench for use:

1. **Unpacking:** Carefully remove the torque wrench from its packaging. Inspect the tool for any visible signs of damage that may have occurred during shipping.
2. **Familiarization:** Identify the main components: the ratchet head (left end), the main body with the torque scale, the trailer pointer dial (right end), and the handle.
3. **Initial Check:** Gently move the ratchet head to ensure it operates smoothly. Verify that the main pointer on the dial moves freely and returns to its zero position when no load is applied.

4. OPERATING INSTRUCTIONS

The Stahlwille MANOSKOP 71AR/80 is an indicating torque wrench, meaning it displays the applied torque in real-time and retains the peak reading.

1. **Select the Correct Socket:** Choose the appropriate socket or accessory for your fastener and securely attach it to the square drive of the ratchet head.
2. **Position the Wrench:** Place the socket onto the fastener. Ensure a firm and stable connection, with the wrench positioned to allow for a smooth, uninterrupted pull.
3. **Set Ratchet Direction:** Adjust the lever on the ratchet head to the desired direction of rotation (clockwise for tightening most standard fasteners). Note that the integrated force compensator is designed for clockwise measurement and is not for anticlockwise measurement.
4. **Apply Torque:** Grip the handle firmly. Apply a steady, smooth, and gradual force in the tightening direction. Avoid sudden jerks or rapid movements.
5. **Read the Measurement:** As you apply force, observe the main pointer on the dial. The trailer pointer will follow the main pointer and remain at the maximum torque value achieved after the force is released. Read the value indicated by the trailer pointer.
6. **Record Reading:** Note the torque value indicated by the trailer pointer. For subsequent measurements, you may need to manually reset the trailer pointer to zero by rotating the clear cover on the dial, or simply observe the new peak if the previous reading is no longer relevant.
7. **Release Pressure:** Once the desired torque is reached or measured, slowly release pressure from the handle.

5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your torque wrench.

- **Cleaning:** After each use, wipe the wrench clean with a soft, dry cloth. Avoid using harsh chemicals, solvents, or abrasive materials that could damage the finish or internal mechanisms.
- **Storage:** Store the torque wrench in its original protective case or a clean, dry environment. Avoid areas with extreme temperatures, high humidity, or corrosive substances.
- **Calibration:** Torque wrenches are precision instruments and require periodic calibration to maintain their specified

accuracy. The frequency of calibration depends on usage intensity and application, but annual calibration by a qualified service center is generally recommended. Refer to your local Stahlwille dealer for calibration services.

- **Inspection:** Regularly inspect the wrench for any signs of wear, damage, or loose parts. Do not use a damaged wrench; have it inspected and repaired by an authorized service technician.

6. TROUBLESHOOTING

If you encounter issues with your torque wrench, consider the following common troubleshooting steps:

- **Inaccurate Readings:**
 - Ensure the wrench is clean and free from debris that might obstruct the dial mechanism.
 - Verify that the trailer pointer is functioning correctly and holding the peak value.
 - Check if the wrench has been dropped or subjected to any impact, which can affect calibration.
 - If accuracy issues persist, professional calibration is required.
- **Difficulty in Ratchet Operation:**
 - Ensure the ratchet mechanism is clean and free of obstructions.
 - Verify that the direction lever is fully engaged in the desired position.
- **Wrench Feels Loose or Damaged:**
 - Immediately cease use.
 - Contact an authorized Stahlwille service center for inspection and repair.

7. SPECIFICATIONS

Specification	Detail
Brand	Stahlwille
Model Number	71AR/80 (Part Number: 50450080)
Product Dimensions	1155 x 70 x 62 cm
Item Weight	4.28 kg
Colour	Yellow
Finish	Powder Coated
Material	Stahlwille (High-grade tool steel)
Item Package Quantity	1
Head Style	Fixed Square
Batteries Included/Required	No
Operation Mode	Mechanical

Specification	Detail
ASIN	B007926ATW
Date First Available	Oct. 20 2014
Global Trade Identification Number	04018754124930

8. WARRANTY AND SUPPORT

This Stahlwille product is manufactured to high-quality standards and is designed for durability and precision. For specific warranty information, service, or technical support, please refer to the documentation provided with your original purchase or contact your authorized Stahlwille dealer. It is recommended to retain your proof of purchase for any warranty claims.

For further assistance, please visit the official Stahlwille website or contact their customer service department.

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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.

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