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Mannesmann M 710-03

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Model: M 710-03

1. INTRODUCTION

Thank you for choosing the Mannesmann H&G Anvil 3 kg Black Metal Painted Workbench. This manual provides important information for the safe and efficient use, setup, and maintenance of your new anvil. Please read these instructions carefully before use and retain them for future reference.

This anvil is designed for various metalworking tasks, including shaping, flattening, and riveting. Its compact size and two-horn design make it versatile for both hobbyists and professionals requiring a portable yet sturdy work surface.



Figure 1: Front view of the Mannesmann H&G Anvil, showcasing its compact design and painted finish.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury and damage to the anvil:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, when working with the anvil.
- Ensure the anvil is placed on a stable, level, and secure surface to prevent tipping or movement during use.
- Do not exceed the anvil's capacity or strike it with excessive force that could cause damage to the tool or the workpiece.
- Keep hands and fingers clear of the striking area.
- Avoid striking hardened steel directly on the anvil face, as this can cause chipping or damage to both the anvil and the hammer.
- Store the anvil in a dry place to prevent rust.

3. SETUP

The Mannesmann H&G Anvil requires minimal assembly, primarily focusing on proper placement for safe and effective use.

3.1 Unpacking

1. Carefully remove the anvil from its packaging.
2. Inspect the anvil for any signs of damage during transit. If damage is found, contact your retailer immediately.
3. Remove any protective coatings or packaging materials. The anvil may have a wax coating for rust prevention during shipping.

3.2 Placement and Securing

Proper placement is crucial for stability and safety.

- Choose a sturdy workbench or stand that can support the anvil's weight (approximately 3 kg) and the force of your work.
- Ensure the surface is level and free from obstructions.
- For enhanced stability, consider bolting or clamping the anvil to your workbench. Although this model is compact, securing it prevents movement during heavy striking.



Figure 2: Top view of the anvil, illustrating the main working face and the conical horn for shaping.

4. OPERATING INSTRUCTIONS

The anvil provides a solid, unyielding surface for various metalworking tasks.

4.1 General Use

- **Flat Face:** Use the main flat surface for flattening, straightening, and general shaping of metal.
- **Horn:** The conical horn is ideal for bending, shaping curves, and forming rings. Its tapered design allows for a variety of radii.
- **Hardy Hole (if present):** This model features a two-horn design, which typically means it does not have a hardy hole. If your specific unit has one, it is used for holding specialized tools like chisels or bending forks.



Figure 3: Detailed view of the anvil's horn, used for bending and forming curved shapes.

4.2 Working with Metal

- Place the metal workpiece on the desired part of the anvil (flat face or horn).
- Use a hammer to strike the workpiece, gradually shaping it as needed. Start with lighter blows and increase force as required.
- Rotate and reposition the workpiece frequently to achieve uniform shaping and prevent localized thinning.

5. MAINTENANCE

Proper maintenance will extend the life and performance of your anvil.

5.1 Cleaning

- After each use, wipe down the anvil's surfaces with a clean, dry cloth to remove any metal dust, debris, or moisture.
- For stubborn grime, a mild solvent like white spirit can be used, followed by a thorough drying.

5.2 Rust Prevention

As a metal tool, the anvil is susceptible to rust, especially in humid environments.

- Apply a thin layer of rust-preventative oil, wax, or grease to all metal surfaces after cleaning. This is particularly important for the working face and horn.
- Store the anvil in a dry, climate-controlled area if possible.
- If rust spots appear, gently remove them with fine-grit sandpaper or a wire brush, then reapply a rust preventative.

6. TROUBLESHOOTING

Most issues with an anvil relate to its placement or surface condition.

6.1 Anvil Moves During Use

- **Cause:** Insufficient securing or unstable base.
- **Solution:** Ensure the anvil is placed on a heavy, stable workbench. Use clamps or bolts to secure it firmly to the surface.

6.2 Surface Damage (Dents, Chips)

- **Cause:** Striking hardened materials, excessive force, or improper hammer use.
- **Solution:** Avoid striking materials harder than the anvil itself. Use appropriate hammers and techniques. Minor surface imperfections typically do not affect performance but can be smoothed with a file if desired.

6.3 Rust Formation

- **Cause:** Exposure to moisture or lack of protective coating.
- **Solution:** Refer to Section 5.2 for rust prevention and removal.

7. SPECIFICATIONS

Key technical details for the Mannesmann H&G Anvil M 710-03:

Feature	Detail
Model Number	M 710-03

Feature	Detail
Weight	2.97 Kilograms (approx. 3 kg)
Shipping Weight	3.07 Kilograms
Material	Metal
Finish Type	Painted
Color	Black
Design	Two-horn version
Assembly Required	Yes



Figure 4: Detail showing the '3 KG' weight marking on the anvil.

8. WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty coverage typically addresses manufacturing defects and may vary by region

and retailer.

9. CUSTOMER SUPPORT

If you have any questions, require assistance with setup, or encounter issues not covered in this manual, please contact the retailer from whom you purchased the Mannesmann H&G Anvil. They will be able to provide further support or direct you to the manufacturer's customer service.