

## Holzmann AKM610ECO

# Holzmann AKM610ECO Manual Sheet Metal Bender

## Instruction Manual

### 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Holzmann AKM610ECO Manual Sheet Metal Bender. Please read this manual thoroughly before assembly or operation to ensure proper use and to prevent injury or damage to the machine. Keep this manual in a safe place for future reference.

The Holzmann AKM610ECO is designed for bending sheet metal up to 600 mm in width and 1 mm in thickness, suitable for various metal fabrication tasks.

### 2. SAFETY INSTRUCTIONS

**WARNING: Failure to follow these safety instructions may result in serious injury or death.**

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the machine is securely mounted to a stable workbench or stand before operation.
- Keep hands and fingers clear of all moving parts, especially the bending and clamping jaws, during operation.
- Do not exceed the machine's specified bending capacity (1 mm thickness, 600 mm width). Exceeding capacity can damage the machine and cause injury.
- Ensure the workpiece is properly clamped before initiating a bend to prevent slippage.
- Keep the work area clean and well-lit. Remove any clutter that could cause a tripping hazard.
- Do not operate the machine under the influence of drugs, alcohol, or medication that impairs judgment.
- Regularly inspect the machine for damage or wear. Do not operate a damaged machine.
- Only trained personnel should operate this equipment.

### 3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. If any parts are missing or damaged, contact your supplier immediately.

- Holzmann AKM610ECO Manual Sheet Metal Bender main unit
- Operating handles (2 units)
- Clamping handles/levers (2 units)
- Instruction Manual (this document)

## 4. SETUP

Proper setup is crucial for safe and effective operation.

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future transport if necessary.
2. **Mounting:** The bender must be securely mounted to a sturdy workbench or stand using appropriate bolts and fasteners (not included). Ensure the mounting surface can support the weight of the machine and the forces applied during bending.
3. **Attach Operating Handles:** Insert the two main operating handles into their respective sockets on the bending beam. Secure them if necessary with set screws or pins provided.
4. **Attach Clamping Handles:** Insert the two clamping handles/levers into the clamping mechanism. These handles are used to secure the workpiece.
5. **Initial Inspection:** Before first use, check all bolts and fasteners for tightness. Ensure all moving parts operate smoothly without obstruction.



Figure 1: Front view of the Holzmann AKM610ECO Manual Sheet Metal Bender, showing the main unit and handles.



Figure 2: Close-up view of the operating handles and clamping mechanism on the Holzmann AKM610ECO.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective sheet metal bending.

- 1. Prepare Workpiece:** Ensure the sheet metal is clean, free of burrs, and cut to the desired dimensions. Mark the bend line clearly.
- 2. Adjust Clamping Pressure:** The clamping mechanism can be adjusted to suit different material thicknesses. Use the adjustment knobs/bolts to set the appropriate pressure. The workpiece should be held firmly without deforming the material.
- 3. Position Workpiece:** Lift the clamping bar using the clamping handles. Slide the sheet metal into position, aligning the bend line with the edge of the bending beam. Ensure the workpiece is centered and square.
- 4. Clamp Workpiece:** Lower the clamping bar and firmly secure the workpiece by pushing down on the clamping handles. The metal must be held tightly to prevent slipping during the bend.
- 5. Perform the Bend:** Grasp both operating handles firmly. Slowly and steadily lift the bending beam upwards. Apply even pressure to both handles to ensure a consistent bend. Continue lifting until the desired angle is achieved.
- 6. Release Workpiece:** Once the bend is complete, carefully lower the bending beam back to its resting position. Release the clamping handles to free the workpiece.
- 7. Inspect Bend:** Examine the bent workpiece for accuracy and quality.



Figure 3: Side view illustrating the clamping mechanism and how the sheet metal is secured before bending.



Figure 4: Top-down view of the bender, highlighting the bending beam and the area where sheet metal is placed.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sheet metal bender.

- **Cleaning:** After each use, clean the machine, especially the bending and clamping surfaces, to remove metal shavings and dust. Use a brush or compressed air.
- **Lubrication:** Periodically apply a light machine oil to all pivot points and moving parts to ensure smooth operation and prevent rust.
- **Inspection:** Regularly check all bolts, nuts, and fasteners for tightness. Inspect the bending edges for wear or damage. Replace worn parts as necessary.
- **Storage:** Store the bender in a dry, clean environment to prevent corrosion.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Workpiece slips during bending.	Insufficient clamping pressure.	Increase clamping pressure using the adjustment knobs/bolts. Ensure the workpiece is clean and free of oil.
Inconsistent bend angle across the workpiece.	Uneven pressure on operating handles; workpiece not square.	Apply even pressure to both operating handles. Ensure the workpiece is properly aligned and square before clamping.
Difficulty in lifting the bending beam.	Exceeding material thickness capacity; lack of lubrication.	Ensure material thickness is within specifications. Lubricate pivot points.
Bending edges leave marks on the material.	Sharp edges on bending components; excessive clamping pressure.	Inspect bending edges for burrs and smooth them if necessary. Reduce clamping pressure if possible.

## 8. SPECIFICATIONS

- **Brand:** Holzmann
- **Model:** AKM610ECO
- **Manufacturer Reference:** HO-AKM610ECO
- **Bending Width:** 600 mm
- **Max. Material Thickness:** 1 mm (mild steel)
- **Units:** 1 Total
- **Date of Availability on Amazon.com.be:** August 4, 2022

## 9. WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not available in the provided product data. Please refer to the product packaging or contact your retailer or the manufacturer directly for details on warranty coverage and support services.

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This manual is subject to change without notice.

### Related Documents - AKM610ECO

<a href="#">Preview</a>	<a href="#">HOLZMANN BS 128HDR Metal Band Saw: Operation, Safety, and Maintenance Manual</a> Comprehensive manual for the HOLZMANN BS 128HDR metal band saw, covering operation, safety guidelines, technical specifications, assembly, maintenance, troubleshooting, and warranty information.
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 <p>Návod k použití</p> <p>Používání pily HOLZMANN TS 315VF</p>	<p><b>HOLZMANN TS 315VF Formátovací pila - Návod k Použití</b></p> <p>Kompletní návod k obsluze pro formátovací pilu HOLZMANN TS 315VF. Obsahuje bezpečnostní pokyny, technická data, montáž, údržbu a záruční podmínky pro profesionální i hobby použití.</p>
	<p><b>HOLZMANN KAP 305JL Profi Kapp- und Gehrungssäge Bedienungsanleitung</b></p> <p>Umfassende Bedienungsanleitung für die HOLZMANN KAP 305JL Profi Kapp- und Gehrungssäge. Enthält wichtige Informationen zu Sicherheit, Montage, Betrieb, Wartung und Fehlerbehebung für Holz- und Kunststoffbearbeitung.</p>
	<p><b>HOLZMANN TS 250 Tischkreissäge / Table Saw User Manual</b></p> <p>Comprehensive user manual for the HOLZMANN TS 250 Table Saw, covering operation, assembly, safety guidelines, technical specifications, and maintenance. Essential reading for safe and effective use of this woodworking tool.</p>
	<p><b>HOLZMANN TSM 250 Disc Sander User Manual</b></p> <p>This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of the HOLZMANN TSM 250 Disc Sander. It includes technical specifications, safety guidelines, and a parts list.</p>
	<p><b>HOLZMANN FS300 400V Spindle Shaper Operating Manual</b></p> <p>This manual provides essential information and instructions for the safe installation and operation of the HOLZMANN FS300 400V spindle shaper. It covers technical specifications, safety guidelines, assembly procedures, electrical connections, and troubleshooting.</p>