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## Binzel Abicor EN 60 974-7 WH WHPP

# Binzel Abicor EN 60 974-7 Mig/Mag Welding Torch System: Operator's Instruction Manual

Models: WH and WHPP

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## INTRODUCTION

This operator's instruction manual provides essential information for the safe and efficient use, maintenance, and troubleshooting of the Binzel Abicor EN 60 974-7 Mig/Mag Welding Torch System, including models WH and WHPP. Please read this manual thoroughly before operating the equipment to ensure proper function and to prevent injury or damage.

This manual covers the following key areas: proper use, technical specifications, component identification, safety instructions and warnings, shipment and packaging details, system overview, start-up procedures, operational guidelines, servicing and cleaning, troubleshooting, disassembly and disposal, emergency procedures, and warranty information.

## 1. PROPER USE

The Binzel Abicor EN 60 974-7 Mig/Mag Welding Torch System is designed exclusively for professional Mig/Mag welding applications. Any use outside of its intended purpose, or modification of the equipment, is strictly prohibited and will void the warranty. Operators must be trained and qualified in welding procedures and safety protocols. Ensure the welding environment is adequately ventilated and free from flammable materials. Always wear appropriate personal protective equipment (PPE) including welding helmet, gloves, protective clothing, and safety footwear.

## 2. TECHNICAL DATA

This section provides detailed technical specifications for the Binzel Abicor EN 60 974-7 Mig/Mag Welding Torch System, including electrical ratings, gas flow requirements, duty cycle, and dimensions. Refer to the product label on your specific torch model (WH or WHPP) for exact specifications.

## General Specifications

Parameter	Specification
Torch Type	Mig/Mag Welding Torch
Model Series	EN 60 974-7 (WH, WHPP)
Cooling Method	Air or Liquid Cooled (model dependent)
Wire Diameter Range	0.8mm - 1.6mm (typical)
Duty Cycle	Varies by model and current

For detailed electrical and gas specifications, consult the data plate on your welding power source and the specific torch model documentation.

## 3. COMPONENTS

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The welding torch system consists of several key components working in conjunction to facilitate the welding process. Understanding each part is crucial for proper assembly, operation, and maintenance.

- **Torch Handle:** Ergonomically designed for operator comfort and control.
- **Torch Neck:** Connects the handle to the contact tip and gas nozzle.
- **Contact Tip:** Electrically conductive component that transfers welding current to the wire.
- **Gas Nozzle:** Directs shielding gas to the weld pool.
- **Wire Liner:** Guides the welding wire from the feeder to the contact tip.
- **Power Cable:** Carries welding current and shielding gas.
- **Control Cable:** Transmits signals for wire feed and gas flow.

Refer to the system description section for a visual breakdown of components.

## 4. SAFETY INSTRUCTIONS

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Safety is paramount when operating welding equipment. Failure to follow these instructions can result in serious injury or death. This section outlines general safety guidelines, specific warnings, and user responsibilities.

### 4.1 Explanations

This manual uses specific symbols and terminology to highlight potential hazards and important information. Pay close attention to warnings, cautions, and notes throughout the document.

**DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

**NOTE:** Provides important information or tips for efficient operation.

### 4.2 Identifications Marking

The welding torch and associated equipment are marked with identification labels and safety symbols. Do not

remove or obscure these markings. Familiarize yourself with all symbols, which typically include warnings for electrical shock, hot surfaces, arc radiation, and proper ventilation.

### 4.3 Terminology

A glossary of welding-specific terms and abbreviations used in this manual is provided to ensure clear understanding. Key terms include Mig/Mag, duty cycle, shielding gas, contact tip, and wire feed speed.

### 4.4 Safety Standard

This equipment complies with EN 60 974-7 and other relevant international and national safety standards for arc welding equipment. Adherence to these standards is critical for safe operation.

### 4.5 Safety Tests

Regular safety checks and tests are recommended to ensure the continued safe operation of the welding torch system. This includes inspecting cables for damage, checking gas connections for leaks, and verifying proper grounding.

### 4.6 Responsibilities of the User

The user is responsible for ensuring that all operators are properly trained, understand this manual, and follow all safety procedures. The user must also ensure that the equipment is maintained in good working order and that appropriate PPE is used at all times.

## 5. SAFETY WARNINGS

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Specific warnings related to electrical hazards, fire and explosion risks, fumes and gases, arc rays, and hot parts are detailed below. Always prioritize safety.

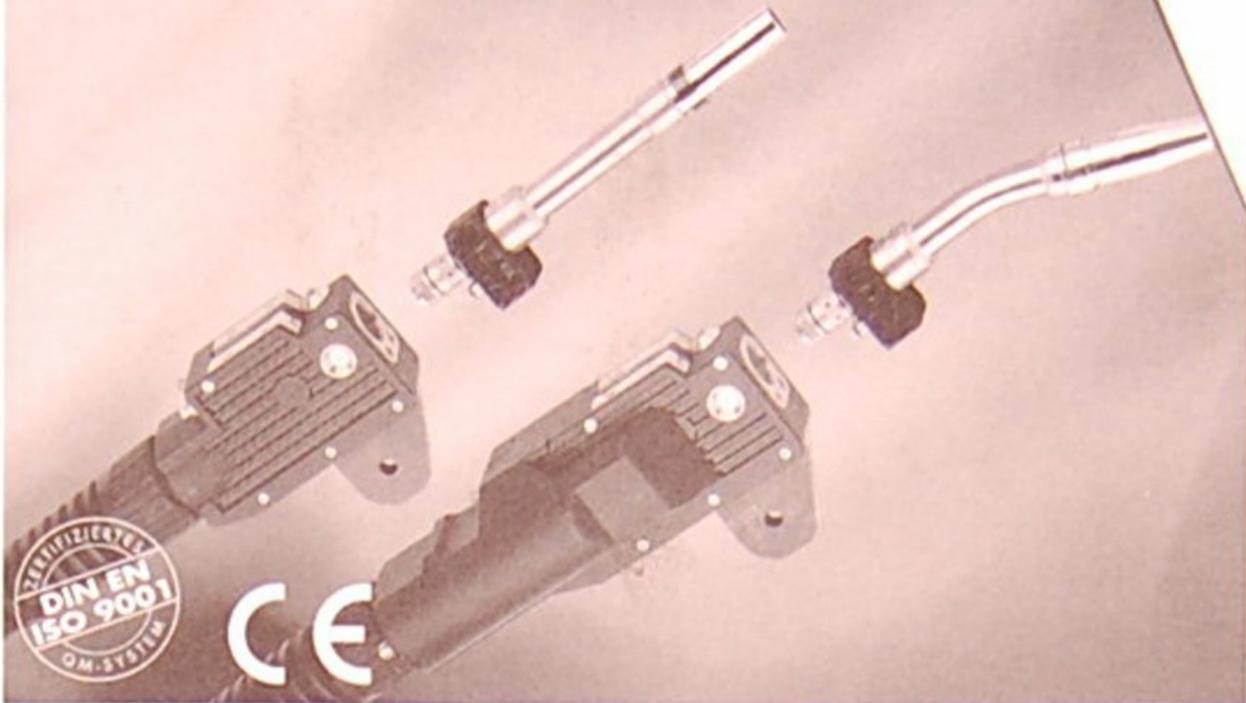
- **ELECTRIC SHOCK CAN KILL:** Do not touch live electrical parts. Ensure proper grounding.
- **FUMES AND GASES CAN BE HAZARDOUS:** Work in a well-ventilated area. Use fume extraction if necessary.
- **ARC RAYS CAN BURN EYES AND SKIN:** Wear a welding helmet with appropriate shade and protective clothing.
- **WELDING SPARKS CAN CAUSE FIRE OR EXPLOSION:** Keep flammable materials away from the welding area.
- **HOT PARTS CAN CAUSE SEVERE BURNS:** Allow equipment to cool before handling.

## 6. SHIPMENT AND PACKAGING

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Upon receipt, inspect the packaging for any signs of damage. Carefully unpack the welding torch system and verify that all components listed in the packing slip are present. Report any damage or missing items to the supplier immediately. Retain original packaging for potential future transport or warranty claims.

# Operating instructions



**MIG/MAG**  
**Welding Torch System**  
**WH and WHPP**  
**EN 60 974-7**

# B-257

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Figure 1: Example of a Binzel Abicor Mig/Mag Welding Torch System.

## 7. SYSTEM DESCRIPTION

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This section provides an overview of the Binzel Abicor EN 60 974-7 Mig/Mag Welding Torch System, detailing its primary functions and how its various parts integrate to form a complete welding unit. The system is designed for robust performance and ease of use in industrial settings.

### 7.1 Components Overview

A visual representation and detailed description of each major component of the welding torch system are provided here. This includes the torch body, cable assembly, consumables (contact tips, gas nozzles, diffusers), and connection points to the welding power source and wire feeder.

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Figure 2: Scan of the Table of Contents from the Binzel Abicor Welding Torch Manual, outlining the manual's structure.

## 8. START-UP PROCEDURE

Follow these steps to safely and correctly set up your Binzel Abicor Mig/Mag Welding Torch System for operation.

Ensure all safety precautions from Section 4 and 5 are observed before proceeding.

1. **Connect Power Source:** Ensure the welding power source is properly grounded and connected to the main power supply.
2. **Connect Torch:** Securely attach the welding torch cable assembly to the welding power source and wire feeder according to the manufacturer's instructions.
3. **Install Welding Wire:** Load the appropriate welding wire into the wire feeder, ensuring it passes smoothly through the wire liner and contact tip.
4. **Connect Shielding Gas:** Attach the gas hose from the torch to the gas regulator on the shielding gas cylinder. Ensure all connections are tight and leak-free.
5. **Check Consumables:** Verify that the correct contact tip and gas nozzle are installed and in good condition.
6. **Set Parameters:** Adjust welding current, voltage, wire feed speed, and gas flow rate according to the welding procedure specifications for your application.
7. **Test Gas Flow:** Briefly activate the gas flow to purge air from the gas line and confirm proper flow.
8. **Perform Safety Check:** Double-check all connections, ensure PPE is worn, and clear the welding area of hazards.

## 9. OPERATION

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Once the system is set up, follow these guidelines for effective and safe welding operations with your Binzel Abicor torch.

- **Initiate Arc:** Position the torch correctly and press the trigger to initiate the welding arc.
- **Maintain Arc Length:** Keep a consistent arc length for stable welding.
- **Travel Speed:** Control the travel speed to achieve the desired bead profile and penetration.
- **Torch Angle:** Maintain the correct torch angle relative to the workpiece.
- **Shielding Gas Coverage:** Ensure adequate shielding gas coverage to prevent atmospheric contamination of the weld.
- **Post-Weld Procedure:** Release the trigger to stop welding. Allow the torch and workpiece to cool.

Always refer to specific welding procedure specifications (WPS) for optimal settings and techniques for your particular application.

## 10. SERVICING / CLEANING

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Regular servicing and cleaning are essential to maintain the performance and longevity of your Binzel Abicor welding torch. Always disconnect power and gas supplies before performing any maintenance.

### Daily Maintenance:

- **Inspect Consumables:** Check the contact tip and gas nozzle for wear, spatter buildup, or damage. Replace as needed.
- **Clean Gas Nozzle:** Remove spatter from the gas nozzle using a reamer or appropriate tool.
- **Check Wire Liner:** Ensure the wire liner is free of kinks and blockages.
- **Inspect Cables:** Look for any cuts, abrasions, or damage to the power and control cables.

### Weekly / Monthly Maintenance:

- **Clean Wire Feeder:** Remove any dust or debris from the wire feeder mechanism.
- **Check Gas Connections:** Verify all gas connections are secure and free of leaks.

- **Inspect Torch Body:** Look for any cracks or damage to the torch handle and neck.
- **Replace Wire Liner:** Periodically replace the wire liner, especially if wire feeding issues occur.

Use only genuine Binzel Abicor replacement parts for optimal performance and safety.

## 11. TROUBLESHOOTING

This section provides solutions to common issues encountered during the operation of the Binzel Abicor Mig/Mag Welding Torch System. Always ensure power and gas are disconnected before inspecting components.

### Common Issues and Solutions

Problem	Possible Cause	Solution
No Arc	No power, poor ground, faulty contact tip, incorrect settings.	Check power supply, verify ground clamp, replace contact tip, adjust settings.
Poor Wire Feed	Kinked liner, wrong liner size, worn drive rolls, spatter in tip.	Inspect/replace liner, check drive roll tension, clean contact tip.
Porosity in Weld	Insufficient shielding gas, gas leak, contaminated workpiece, worn nozzle.	Check gas flow/supply, inspect gas lines, clean workpiece, replace nozzle.
Overheating Torch	Exceeding duty cycle, insufficient cooling (liquid-cooled models), loose connections.	Allow torch to cool, check coolant level/flow, tighten connections.

If issues persist after following these steps, contact authorized Binzel Abicor service personnel.

## 12. DISASSEMBLY / DISPOSAL

When the welding torch system reaches the end of its service life, it must be disassembled and disposed of in an environmentally responsible manner, in accordance with local regulations. Disconnect all power and gas supplies before beginning disassembly.

- Separate materials such as metals, plastics, and electronic components.
- Recycle components where possible.
- Dispose of hazardous materials (e.g., certain electronic parts) through approved channels.

## 13. IN THE EVENT OF AN EMERGENCY

In case of an emergency during welding operations, immediate action is required to ensure safety. Familiarize yourself with these procedures:

- **Electrical Shock:** Immediately disconnect power. Do not touch the person or live equipment with bare hands. Use non-conductive material to separate the person from the source. Call emergency services.
- **Fire:** Use an appropriate fire extinguisher (Class D for metal fires, Class C for electrical fires). If the fire is large or spreading, evacuate the area and call emergency services.
- **Gas Leak:** Shut off the gas supply at the cylinder. Ventilate the area. Do not operate any electrical switches or create sparks.
- **Burns:** Cool the burn with clean, cool water for several minutes. Seek medical attention for severe burns.

Ensure emergency contact numbers and first-aid equipment are readily accessible in the welding area.

## 14. WARRANTY

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Binzel Abicor warrants this Mig/Mag Welding Torch System against defects in materials and workmanship for a period specified at the time of purchase. This warranty covers normal use and service. It does not cover damage resulting from misuse, abuse, unauthorized modifications, improper maintenance, or use of non-genuine parts. To make a warranty claim, please contact your authorized Binzel Abicor dealer with proof of purchase. The warranty is valid only for the original purchaser and is non-transferable. Specific terms and conditions may vary by region; refer to your purchase documentation for full details.