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› IWISS IWS-1632AF Copper Press Tool Instruction Manual

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IWISS IWS-1632AF Copper Press Tool Instruction Manual

Model: IWS-1632AF

INTRODUCTION

The IWISS IWS-1632AF Copper Press Tool is designed for creating secure, flameless connections on copper pipes using compatible press fittings such as Viega ProPress, Elkhart, and Conex. This manual provides essential information for the safe and effective operation, setup, and maintenance of your tool. Please read these instructions carefully before use.



Image: The IWISS IWS-1632AF Copper Press Tool, showcasing its robust design and included interchangeable jaws.

SAFETY INFORMATION

To ensure safe operation and prevent injury or damage, observe the following safety guidelines:

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during tool operation.
- Ensure the work area is clear, well-lit, and free from obstructions.
- Keep hands and fingers clear of moving parts, especially the jaws, during operation.
- Do not use the tool for purposes other than its intended use, which is pressing copper pipe fittings. This tool is not suitable for PEX pipes.
- Be aware of the tool's weight and leverage, particularly when working in confined spaces. Consider two-person operation for stability if needed.
- Do not modify the tool or its components. Use only genuine IWISS replacement parts and jaws.

PACKAGE CONTENTS

The IWISS IWS-1632AF Copper Press Tool package typically includes:

- 1 x IWISS IWS-1632AF Copper Press Tool
- 1 x 1/2-inch Jaw Set
- 1 x 3/4-inch Jaw Set
- 1 x 1-inch Jaw Set
- 1 x Carrying Case (may vary by region/retailer)



Image: The interchangeable die sets for 1", 3/4", and 1/2" pipe sizes, designed for secure mechanical connections.

SPECIFICATIONS

Attribute	Value
Brand	IWISS
Model Number	IWS-1632AF
Capacity	1/2", 3/4", 1"
Item Weight	400 g (tool only)
Product Dimensions	25.5"L x 9.65"W
Handle Material	Aluminum
Grip Type	Ergonomic
Specific Uses	Plumbing and HVAC applications
Specification Met	DIN, MIL, JIS, ASTM

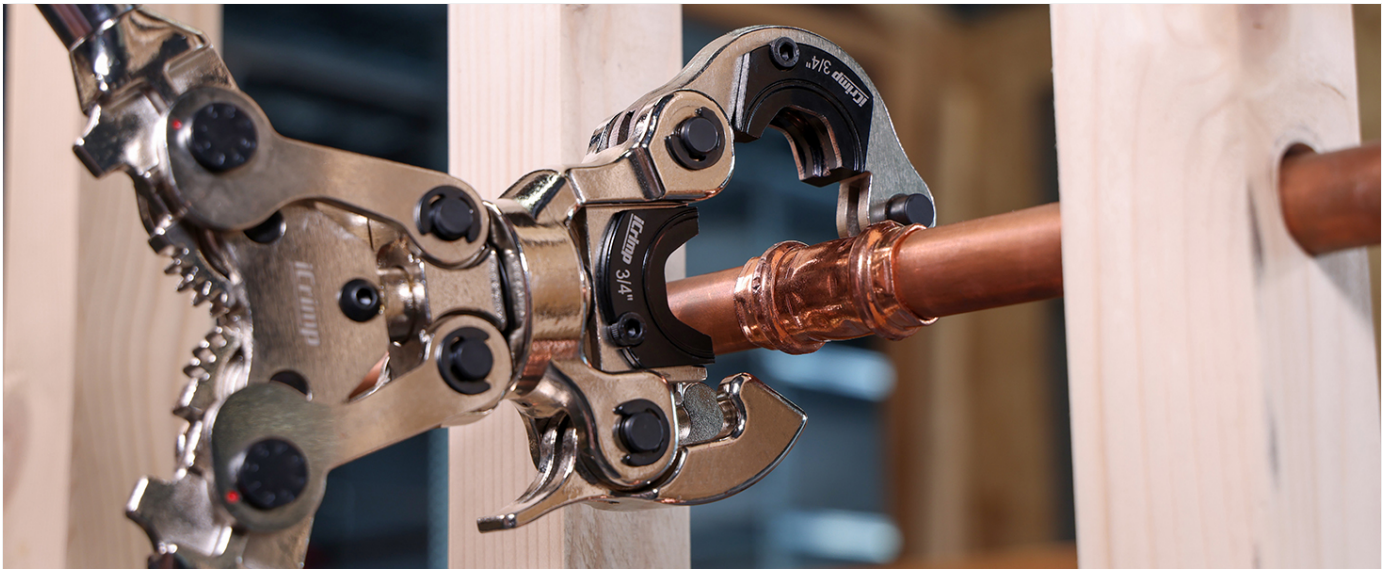


Image: The IWISS IWS-1632AF tool with a summary of its key specifications.

SETUP: INSTALLING AND CHANGING JAWS

Follow these steps to correctly install or change the crimping jaws:

1. Ensure the tool is clean and free of any debris.
2. Open the tool handles fully to disengage any currently installed jaws.
3. Identify the correct jaw size (1/2", 3/4", or 1") for the copper fitting you intend to press.
4. Align the pins on the chosen jaw set with the corresponding holes on the tool head.
5. Insert the jaw set into the tool head and ensure it is securely seated.
6. Close the tool handles slightly to confirm the jaw set is properly engaged and locked into place.



Image: Visual guide for installing and changing the interchangeable jaws on the press tool.

OPERATING INSTRUCTIONS: MAKING A PRESS CONNECTION

Achieving a reliable press connection involves several key steps:

1. **Prepare the Pipe:**
 - Cut the copper pipe to the desired length using a pipe cutter. Ensure the cut is straight and clean.

- Chamfer and deburr the inside and outside edges of the pipe end to remove any sharp edges or burrs. This prevents damage to the O-ring inside the fitting.



Image: A four-panel illustration demonstrating the steps: "CUT" shows a pipe cutter on a copper pipe; "CHAMFER" shows a reamer on the pipe end; "INSTALL JAW" shows a jaw being placed into the press tool; "CRIMP" shows the tool pressing a fitting onto a pipe.

2. Insert the Fitting:

- Slide the copper press fitting onto the prepared pipe end. Ensure the pipe is fully inserted into the fitting, past the O-ring, and rests against the stop.

3. Position the Tool:

- Open the jaws of the press tool and place them squarely around the fitting. The jaws should fully encompass the fitting's press ring.
- The tool features a 360-degree rotatable head for easier access in various orientations. Adjust the head as needed for optimal positioning.



Image: A two-panel image illustrating the 360-degree rotatable head of the press tool. The left panel shows the head in a standard position, and the right panel shows it rotated, with arrows indicating the full range of motion.

- **Note on Tee Fittings:** For short-end tee couplings, specific positioning may be required. The tool's latch mechanism might interfere with the center leg of some tee fittings, requiring careful alignment or pre-crimping before final installation in tight spaces.



Image: A two-panel image showing the press tool positioned to crimp a short-end tee coupling. The left panel highlights the "Exclusive position for short end of Tee coupling," and the right panel shows the tool engaged with the tee.

4. Perform the Crimp:

- Firmly close the handles of the tool until the jaws are fully closed and the crimping action is complete. The tool is designed to provide an accurate press without scratching the fitting.
- Release the handles and remove the tool from the fitting.
- Inspect the crimped connection to ensure it is uniform and secure.



Image: A close-up view of the IWISS IWS-1632AF copper press tool actively crimping a copper pipe fitting, demonstrating the tool in use.

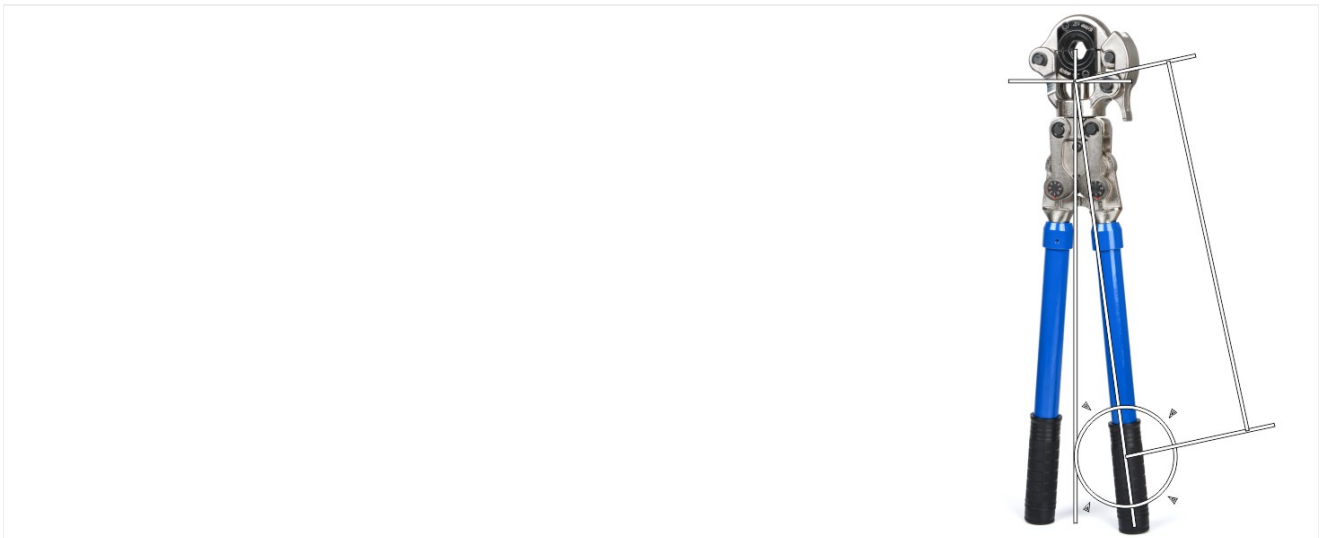


Image: A three-step visual guide. Step 1 shows a leaking unpresse connection. Step 2 shows the press tool being used to make a connection. Step 3 shows a finished, secure, flameless connection.

Short End Tee Crimping

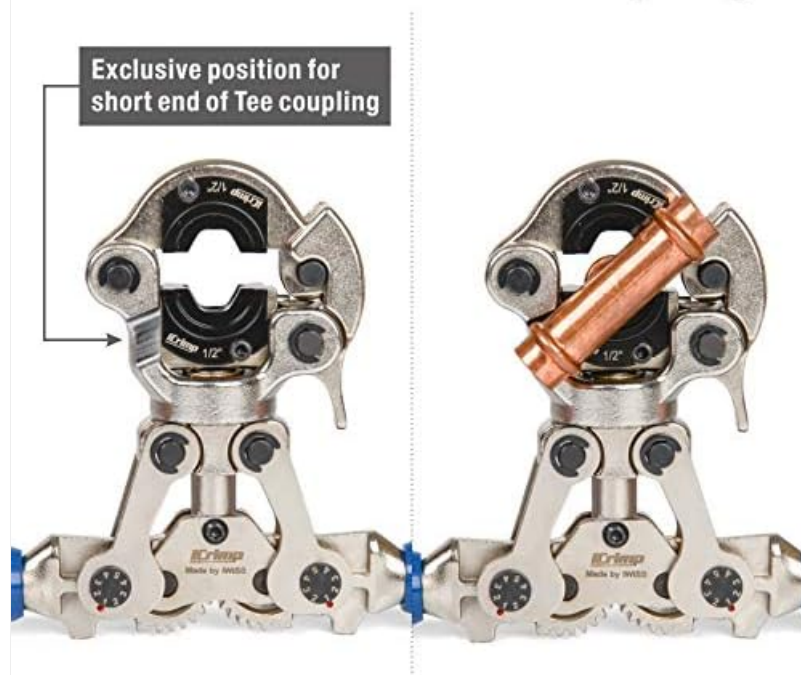


Image: A collection of copper pipe fittings, including elbows and tees, that have been successfully crimped, demonstrating the finished appearance of secure connections.

Instructional Video



Video: An official IWISS video demonstrating the use of the iCrimp IWS-1632AF Copper Tubing Press Tool for making secure connections.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your tool:

- **Cleaning:** After each use, wipe down the tool and jaws with a clean, dry cloth to remove any dirt, dust, or debris.
- **Lubrication:** Periodically apply a light machine oil to the moving parts and pivot points of the tool to ensure smooth operation and prevent corrosion.
- **Storage:** Store the tool and jaws in their original carrying case in a dry, clean environment to prevent rust and damage.
- **Inspection:** Regularly inspect the jaws for signs of wear, cracks, or damage. Replace worn jaws to ensure consistent, reliable crimps and prevent potential leaks.

TROUBLESHOOTING

If you encounter issues during operation, consider the following common problems and solutions:

- **Difficulty Closing Handles:**
 - *Possible Cause:* Incorrect jaw size for the fitting, or debris obstructing the jaws.
 - *Solution:* Verify the jaw size matches the fitting. Clean the jaws and tool head thoroughly.
- **Incomplete Crimp:**
 - *Possible Cause:* Insufficient force applied (handles not fully closed), or worn jaws.
 - *Solution:* Ensure handles are fully closed until the crimping action is complete. Inspect and replace jaws if they show signs of wear.

- **Leaks After Crimping:**

- *Possible Cause:* Improper pipe preparation (burrs), pipe not fully inserted into fitting, or damaged O-ring within the fitting.
- *Solution:* Ensure pipe ends are properly deburred and chamfered. Confirm the pipe is fully seated in the fitting before crimping. Inspect O-rings for damage before assembly.

- **Tool Not Suitable for Very Tight Spaces or Certain Tee Fittings:**

- *Observation:* The tool's physical dimensions and latch mechanism may make it challenging to crimp fittings in extremely confined areas or the center leg of some tee fittings.
- *Solution:* Plan installations to allow adequate clearance for tool operation. For challenging tee connections, consider pre-crimping the tee onto a pipe stub before final installation, or using alternative connection methods if space is severely limited.

WARRANTY INFORMATION

This IWISS product is covered by a limited manufacturer's warranty against defects in materials and workmanship. The warranty period and specific terms may vary. Please refer to the warranty card included with your purchase or visit the official IWISS website for detailed warranty terms and conditions. Keep your proof of purchase for any warranty claims.

SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your IWISS IWS-1632AF Copper Press Tool, please contact IWISS customer support. Contact information can typically be found on the product packaging, the official IWISS website, or through your retailer.

ASK A QUESTION ABOUT THIS MANUAL

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