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> IWISS PL2100 Diagonal Flush Cutter Instruction Manual

IWISS PL2100

IWISS PL2100 Diagonal Flush Cutter Instruction Manual

Model: PL2100

INTRODUCTION

Thank you for choosing the IWISS PL2100 Diagonal Flush Cutter. This manual provides essential information for the safe and effective use, maintenance, and care of your tool. Please read it thoroughly before operation and retain it for future reference.

IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the tool:

- Wear appropriate eye protection when using this tool.
- This tool is designed for cutting **soft materials only**, such as tie-wraps, plastics, and soft metals (e.g., copper wire, thin aluminum).
- **DO NOT** attempt to cut hard materials like steel wire, piano wire, or guitar strings, as this will damage the cutting edges.
- Keep fingers clear of the cutting jaws during operation.
- Store the tool in a dry, safe place, out of reach of children.
- Inspect the tool for damage before each use. Do not use if the cutting edges are chipped or the handles are damaged.

PRODUCT OVERVIEW

The IWISS PL2100 is a 5-inch diagonal flush cutter engineered for precision cutting of soft materials. Its design incorporates features for enhanced performance and user comfort.

Key Features:

- **Material:** Constructed from high-quality Chromium-Vanadium Steel for durability.
- **Cutting Edges:** Ultra-sharp, pointed nose, and beveled cutting edges for precise flush cuts. Induction-hardened for

long life.

- **Spring-Loaded Action:** Features an opening spring for self-opening action, reducing hand fatigue during repetitive tasks.
- **High Leverage Design:** Provides up to 35% greater cutting power compared to standard designs.
- **Ergonomic Handles:** Dipped handles offer comfort and a secure grip.

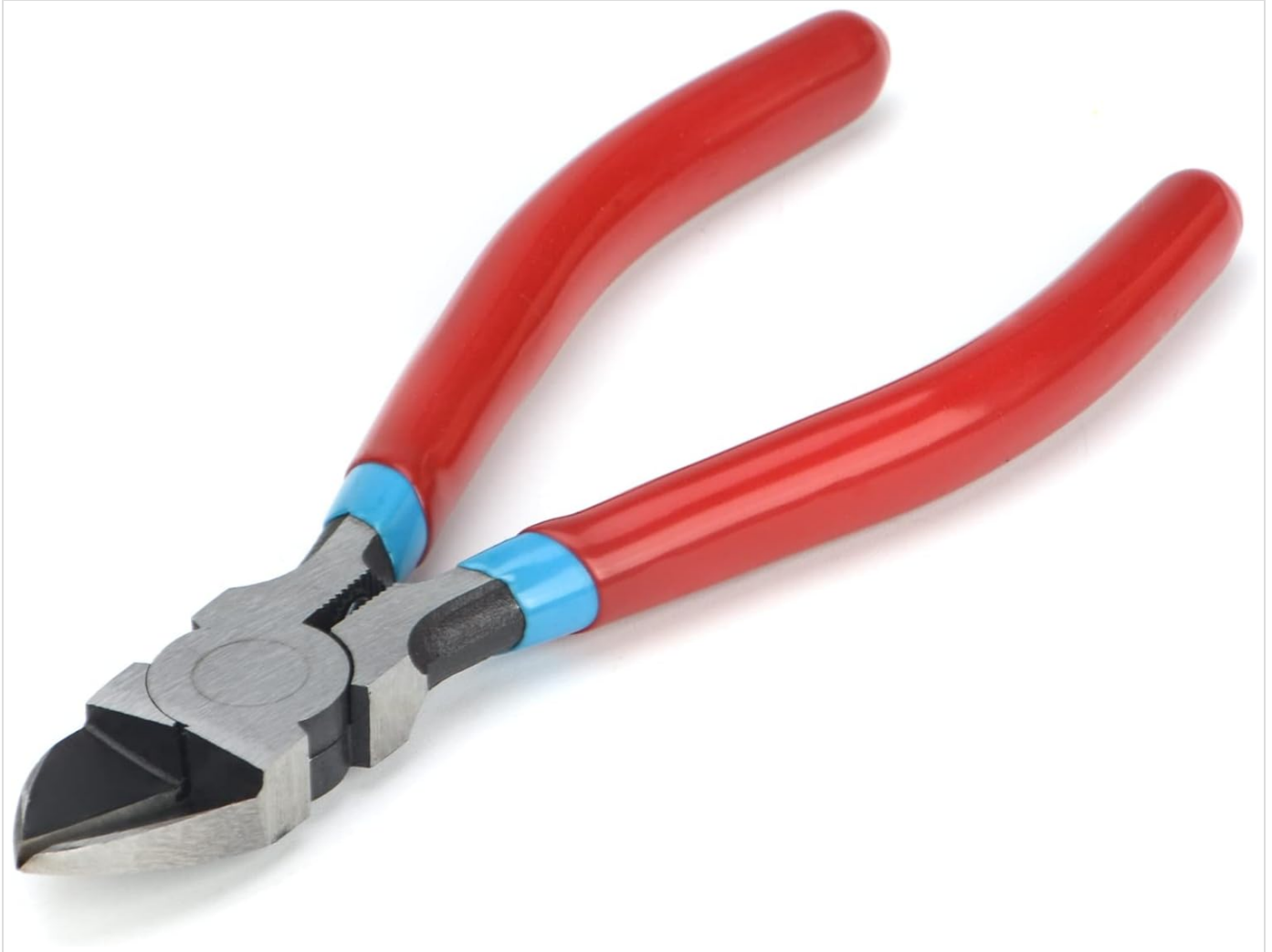


Figure 1: IWISS PL2100 Diagonal Flush Cutter. This image shows the overall design of the 5-inch diagonal flush cutter with red handles.

SPRING-LOADED ACTION

For Self-opening

TUNGSTEN STEEL EDGES

For Easier And Smoother Cuts

Figure 2: Close-up view highlighting the spring-loaded action for self-opening and the tungsten steel edges designed for easier and smoother cuts.

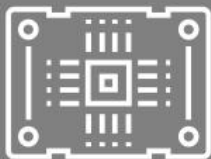
DIAGONAL FLUSH CUTTERS

- Sharp & Durable
- Angled Jaws & Spring
- Strong Flush Cutting
- Field Tested, Customer Approved

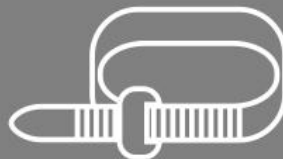


PL-2100 FLUSH CUTTER

A strong, durable cutter that is ideal for jewelry making, wire crafts, basketry, caning and for cutting lead came used for stained glass work. High carbon tool steel allows resharpener. Slightly radiused tips help to avoid conductor nicking, but sharp where it needs to be..



PCB



ZIP TIE



COPPER WIRE



JEWELRY MAKING



DIY WIRING

Figure 3: Visual representation of the PL2100's versatility for tasks such as working with PCBs, cutting zip ties, copper wire, jewelry making, and DIY wiring.

The IWISS PL2100 Diagonal Flush Cutter requires no assembly. It is ready for use directly out of the packaging.

1. Remove the cutter from its packaging.
2. Inspect the cutting edges for any signs of damage from shipping.
3. Ensure the spring mechanism operates smoothly by opening and closing the handles a few times.
4. Clean any protective oil or residue from the jaws before first use, if present.

OPERATING INSTRUCTIONS

Follow these steps for effective and safe cutting:

1. **Identify Material:** Confirm the material to be cut is soft (e.g., copper wire, plastic, zip ties). **Do not use on steel or other hard metals.**
2. **Position the Cutter:** Place the material as close to the pivot point of the jaws as possible for maximum leverage and a clean cut. The pointed nose allows for precise tip cutting.
3. **Apply Pressure:** Gently squeeze the handles together to cut through the material. The high leverage design assists in reducing effort.
4. **Flush Cutting:** The non-beveled design allows for flush cutting of sprues off plastic components or trimming zip ties for a clean finish.

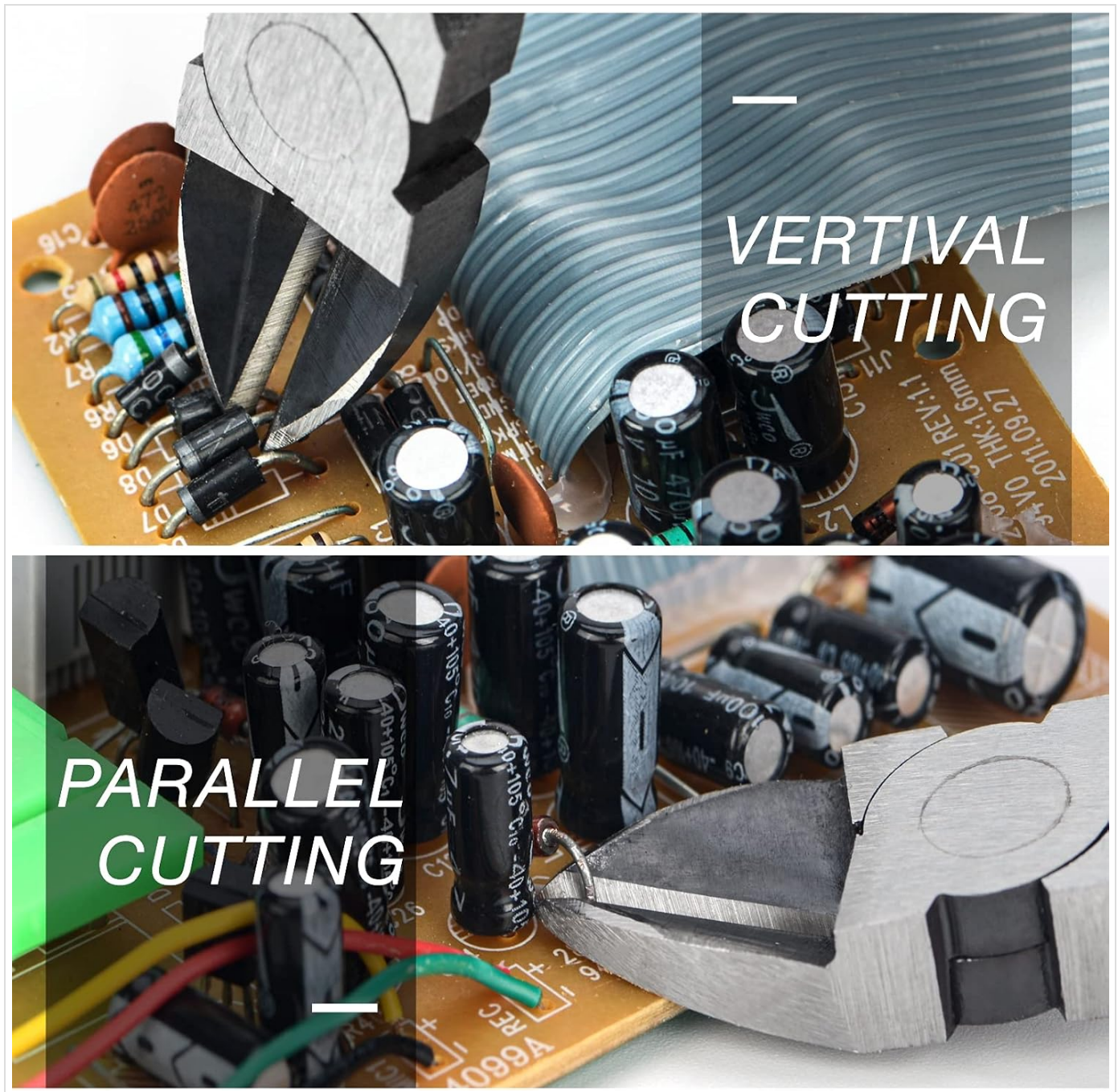


Figure 4: Illustration of the PL2100 performing both vertical and parallel cutting tasks on electronic components.

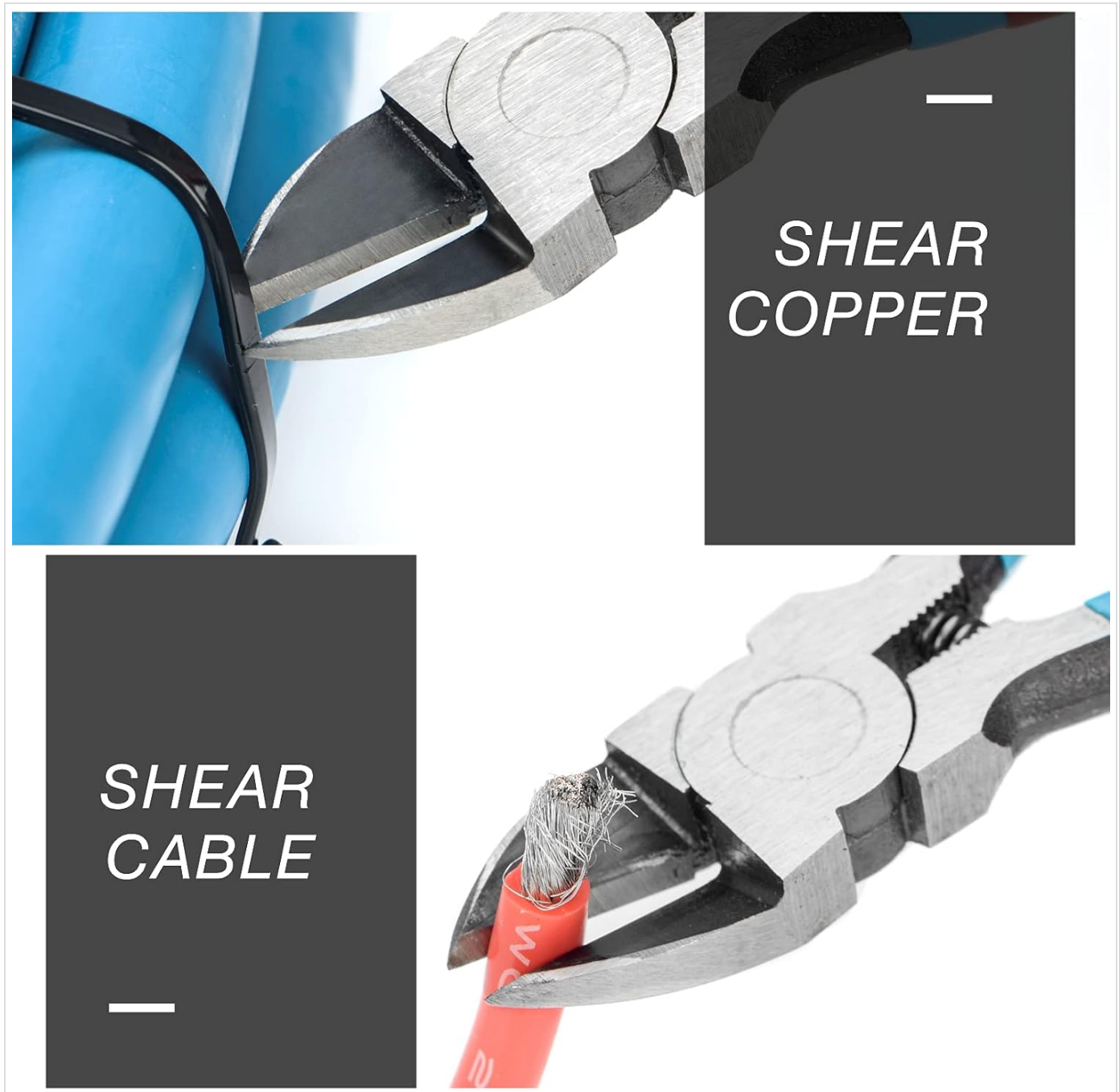


Figure 5: Demonstrates the PL2100's capability to shear copper wire and cut zip ties cleanly.



Figure 6: The PL2100 in use, cutting a red and black electrical wire.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your diagonal flush cutter.

- **Cleaning:** After each use, wipe the jaws and pivot point with a clean, dry cloth to remove any debris or residue.
- **Lubrication:** Periodically apply a small drop of light machine oil to the pivot point to ensure smooth action and prevent rust.
- **Storage:** Store the cutter in a dry environment to prevent corrosion.
- **Inspection:** Regularly check the cutting edges for nicks or dullness. While the tool is designed for long life, improper use can cause damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Cutter not cutting cleanly.	Dull or damaged cutting edges; attempting to cut hard material.	Ensure you are cutting only soft materials. Inspect edges for damage. If damaged, replacement may be necessary.
Jaws feel stiff or sticky.	Lack of lubrication; debris in the pivot joint.	Clean the pivot area and apply a drop of light machine oil.
Handles feel loose or wobble.	Hot-riveted joint may be compromised (unlikely with proper use).	If the hot-riveted joint is compromised, the tool may need replacement.

SPECIFICATIONS

Feature	Detail
Model	PL2100
Length	5 inches (125mm)
Material	Chromium-Vanadium Steel
Handle Material	Plastic, Steel (Dipped handles)
Color	Red
Cutting Capacity (Soft Wire)	Up to 6 AWG (13mm², 4mm diameter)
Item Weight	4.2 ounces
Manufacturer	ZHEJIANG IWISS ELECTRIC CO.,LTD

PARAMETERS

PL-2100

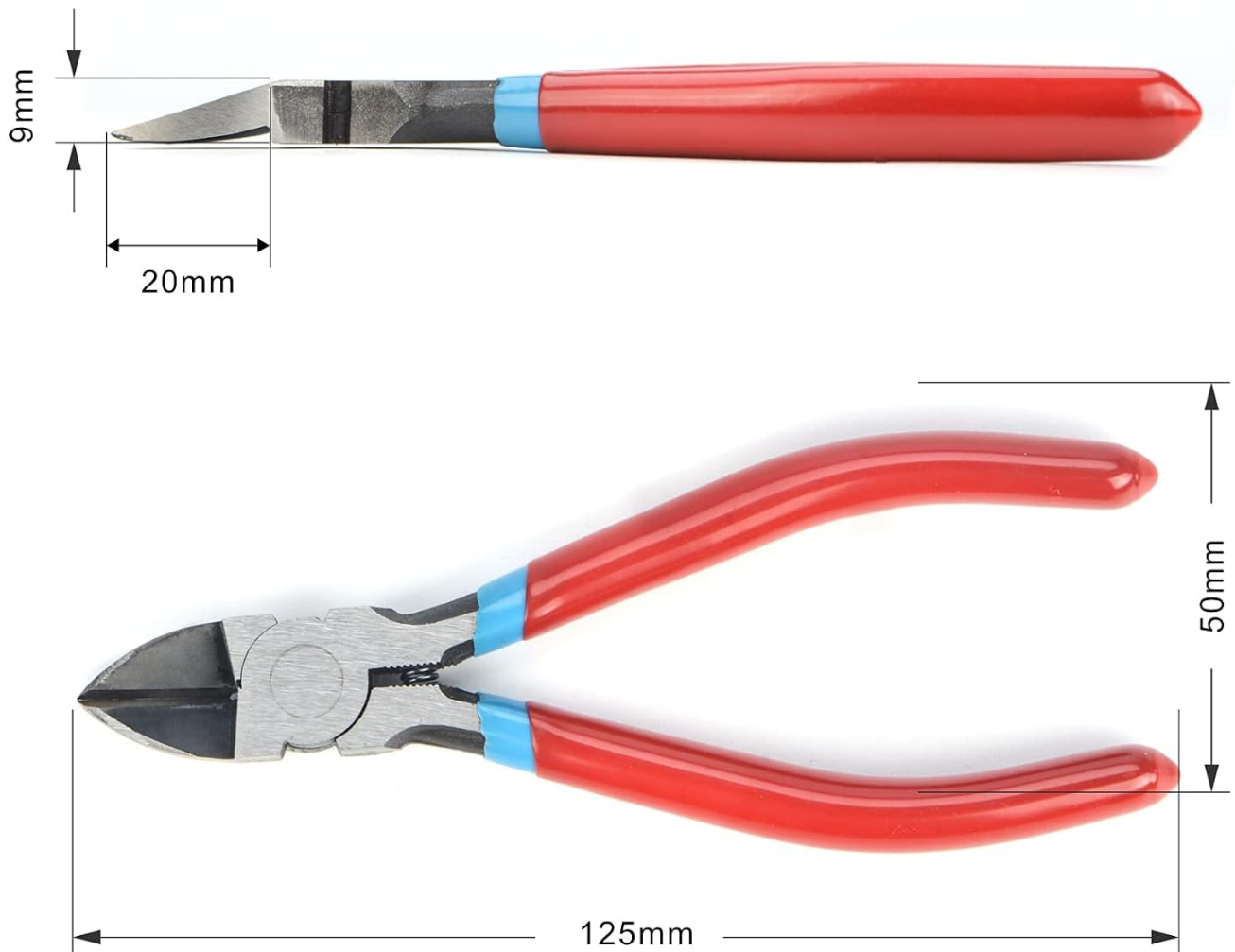


Figure 7: Diagram illustrating the dimensions of the PL2100 cutter, showing a length of 125mm and a handle width of 50mm.

COMPARISON

PL-2100 ►



PL-2200 ►



P/N	LENGTH	MATERIAL	CAPACITY		
			AWG	MM ²	MM
PL-2100	5"	CHROME-VANADIUM	6AWG	13MM ²	4MM
PL-2200	6"		4AWG	21MM ²	5MM

Figure 8: Comparison table and visual representation of the PL2100 (5-inch, 6 AWG capacity) and PL2200 (6-inch, 4 AWG capacity) models, both made of Chrome-Vanadium steel.

WARRANTY AND SUPPORT

IWISS products are manufactured to high-quality standards. For information regarding warranty coverage or technical support, please refer to the official IWISS website or contact their customer service department directly.

For further assistance, please visit the [IWISS Store on Amazon](#).

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