

## Domino V230i Printhead Alignment Guide

### Introduction

The Domino V230i is a high-performance thermal transfer overprinter (TTO) widely used for labeling flexible packaging in industries such as food, beverage, and pharmaceuticals. Printhead alignment is a critical step during new machine setup or after replacing the printhead, directly impacting print quality and production efficiency. This guide, based on the official YouTube video (<https://youtu.be/TAGXRqD1CPc>), details the printhead alignment steps, precautions, and troubleshooting for the V230i, helping users quickly complete alignment and ensure efficient equipment operation.

**Keywords:** Domino V230i, thermal transfer overprinter, printhead alignment, industrial printing, equipment setup, print quality

### 1. Importance of Printhead Alignment

Printhead alignment ensures precise coordination between the printhead, ribbon, and packaging material for optimal print results:

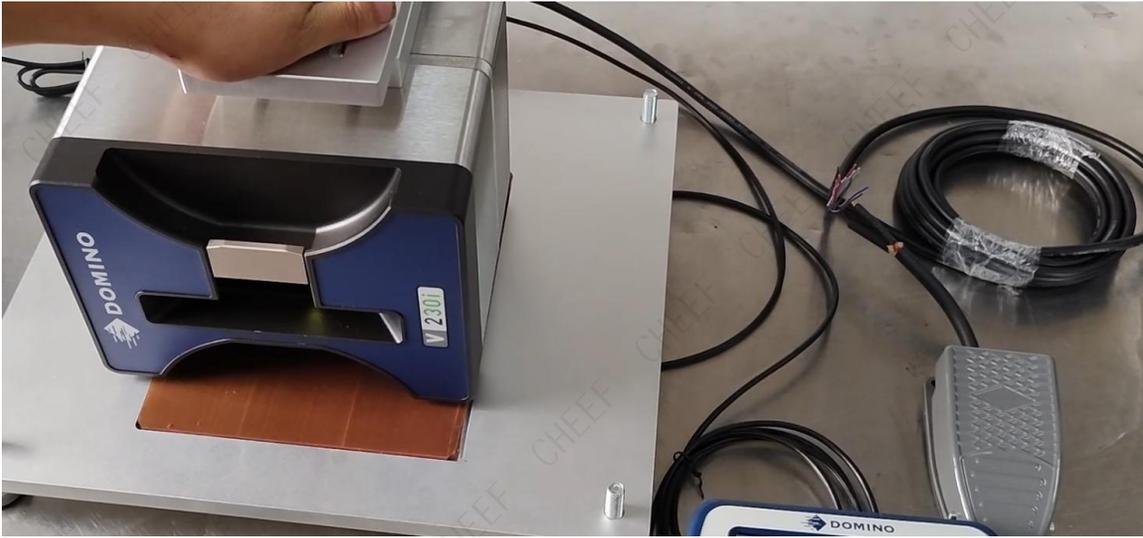
- **Function:** Adjusts the printhead position to print patterns or text clearly and without offset on packaging surfaces.
- **Alignment Necessity:** Misalignment in new machines or after printhead replacement can cause blurry prints, offsets, or ribbon waste, affecting production efficiency.
- **Applicable Scenarios:** Required during initial machine setup, printhead replacement, or when changing packaging material types.



## 2. Preparation for Printhead Alignment

Before starting alignment, make the following preparations:

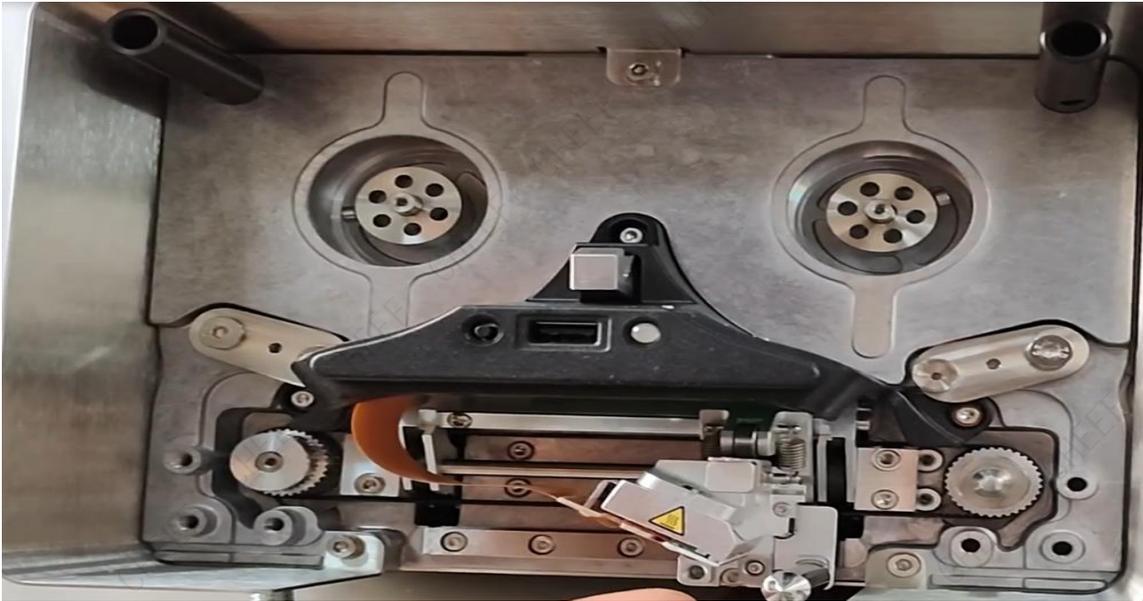
- **\*\*Tools\*\***: V230i-provided adjustment tools (e.g., screwdriver, hex wrench), alignment template, test ribbon, packaging material sample.
- **\*\*Safety Measures\*\***: Power off the equipment and allow the printhead to cool to room temperature (about 5-10 minutes) for safe operation.
- **\*\*Environmental Requirements\*\***: Operate in a dust-free, well-ventilated area to avoid dust or debris interfering with alignment.

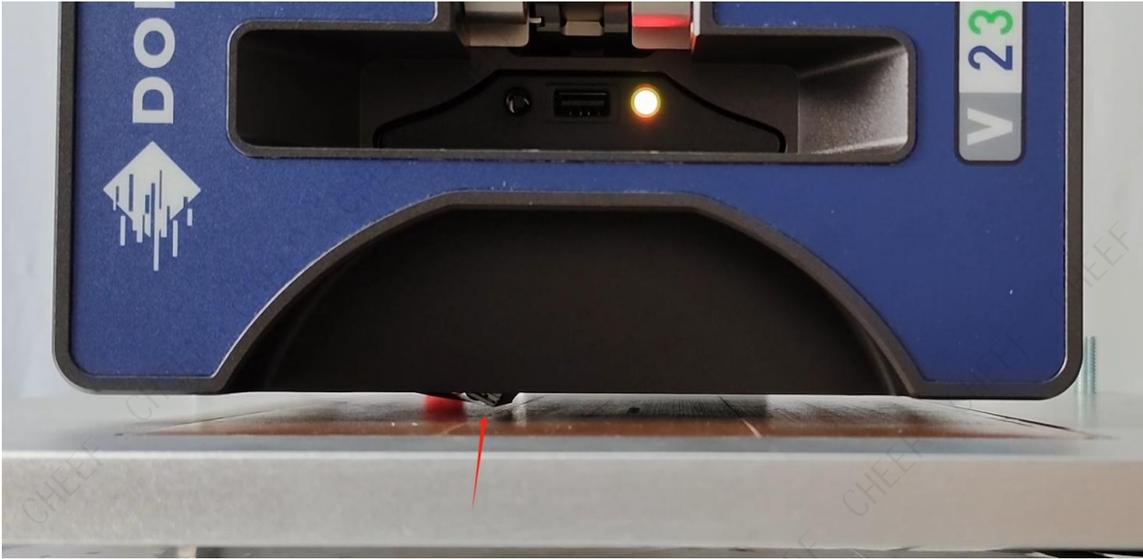


### 3. Printhead Alignment Steps

Proper alignment ensures print quality and equipment stability:

- **Step 1: Install Printhead**: Follow the equipment manual to correctly install the printhead into the V230i print unit, ensuring fixing screws are tightened but not overtightened.
- **Step 2: Load Ribbon and Material**: Install a test ribbon and packaging material sample, ensuring the ribbon is flat without wrinkles and the material aligns with the transport path.
- **Step 3: Adjust Printhead Position**: Access “Printhead Settings” in the V230i menu, use adjustment tools to fine-tune the printhead’s horizontal and vertical position, and observe alignment template markers to ensure even contact with the material.
- **Step 4: Test Print and Fine-Tune**: Run a test print to check if the content is centered without offset; if deviations occur, repeat adjustments until optimal results are achieved.
- **Precautions**: Adjust gently to avoid over-tightening screws; ensure ribbon and material are not loose; record adjustment parameters for future reference.





#### 4. Post-Alignment Inspection

After alignment, perform the following checks:

- **Print Quality Check**: Run multiple test prints to confirm text or patterns are clear, without blur or broken lines.
- **Pressure and Temperature Calibration**: Check printhead pressure and temperature settings in the V230i menu to ensure compatibility with the packaging material and ribbon type.
- **Stability Test**: Run 10-20 continuous prints to verify the printhead remains stable without offset or jitter.



### 5. Common Issues and Solutions

Common printhead alignment issues and their solutions:

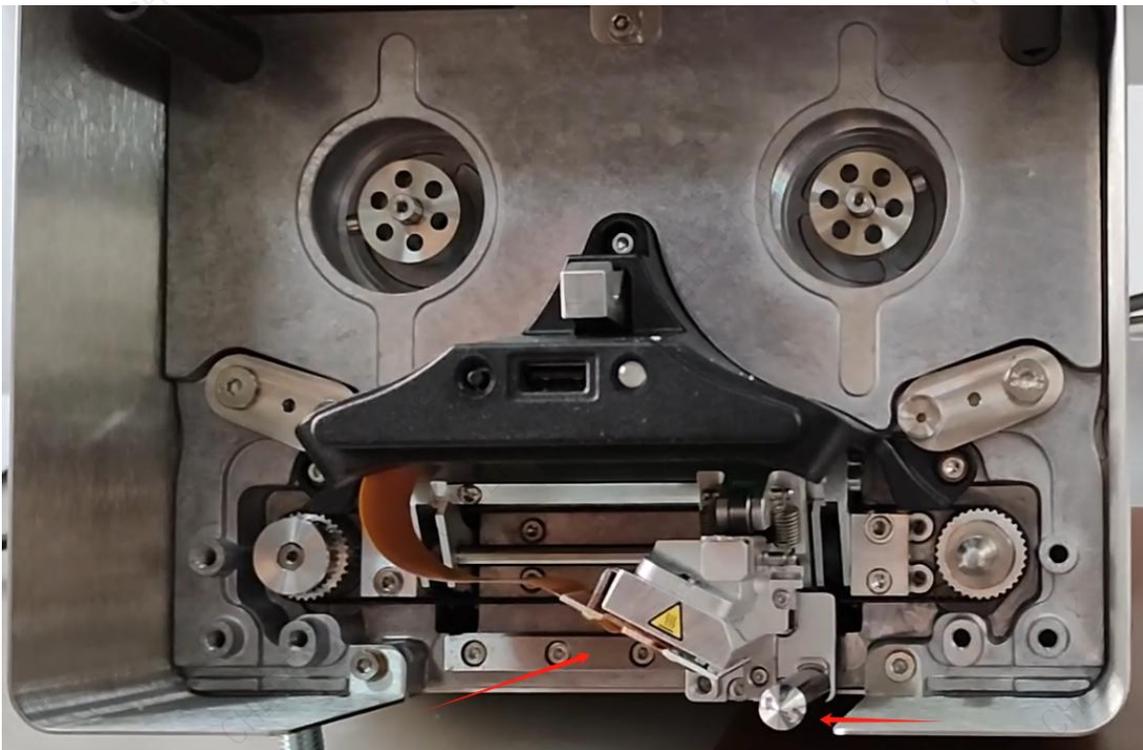
- **Issue 1: Offset Print Content**: Verify the printhead is fully secured and readjust its horizontal or vertical position; confirm correct ribbon and material installation.
- **Issue 2: Blurry Prints**: Check if printhead pressure is too low or temperature settings are incorrect, adjusting to recommended values (typically 2-3 bar pressure, 40-50° C temperature).
- **Issue 3: Ribbon Breakage or Wrinkling**: Ensure correct ribbon tension settings and uniform printhead contact with the ribbon; replace the ribbon if necessary.



### 6. Long-Term Alignment Maintenance Tips

To maintain stable printhead alignment, follow these practices:

- **Regular Checks**: Inspect printhead alignment every 1-2 months or when changing packaging materials, recalibrating as needed.
- **Use Original Parts**: Use Domino original printheads and ribbons to ensure compatibility and print quality.
- **Log Adjustments**: Record parameters and test results for each alignment to facilitate quick troubleshooting.
- **Professional Support**: For complex alignment issues, contact Domino technical support or the supplier for guidance.



Contact Us

For further technical support or to purchase Domino V230i printheads and accessories, contact Cheef:

- Email: sales@cheef.cn
- WhatsApp: +86 181 6857 5767

Video Reference: <https://youtu.be/TA6XRqD1CPc>