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> Jectse CNC Automatic Tool Setter Instruction Manual (Model: Jectse2y15oq4wa9)

## Jectse Jectse2y15oq4wa9

# Jectse CNC Automatic Tool Setter Instruction Manual

Model: Jectse2y15oq4wa9 | Brand: Jectse

## 1. INTRODUCTION

The Jectse CNC Automatic Tool Setter is a precision instrument designed for accurately setting tool length and position on CNC engraving machines and routers. This device ensures high precision in machining operations by providing reliable and consistent tool measurement. Its robust design features dust-proof and waterproof capabilities, making it suitable for demanding industrial environments.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the tool setter. Failure to follow these instructions may result in injury or damage to the equipment.

- Always ensure the power supply to the CNC machine is disconnected before installation or maintenance.
- Wear appropriate personal protective equipment (PPE) such as safety glasses.
- Do not attempt to modify the tool setter. Unauthorized modifications can lead to malfunction and void the warranty.
- Keep the tool setter clean and free from debris to maintain accuracy.
- Ensure proper grounding to prevent electrical hazards.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- 1 x Jectse CNC Automatic Tool Setter
- 1 x Connection Cable (integrated or separate, as pictured)
- Mounting Screws/Accessories (if applicable, based on image 51QVsakGT9L.jpg showing mounting holes)



Image: The Jectse CNC Automatic Tool Setter with its coiled connection cable, showing the main unit and the cable assembly.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of the tool setter:

1. **Choose Mounting Location:** Select a stable, flat surface on your CNC machine table where the tool setter can be securely mounted. Ensure it is within reach of the tool spindle and does not interfere with machine movement.
2. **Secure Mounting:** Use appropriate screws to firmly attach the tool setter to the chosen location. Refer to the installation diagram for mounting hole dimensions and patterns.
3. **Connect Wiring:** Connect the tool setter's cable to the designated input port on your CNC controller. Ensure the wiring matches the controller's specifications (e.g., signal, ground, power). The tool setter is designed for direct input to CNC/PLC without an integrated amplifier.

4. **Test Connection:** After installation, perform a continuity test or a basic signal check to ensure the tool setter is properly communicating with the CNC controller.



Image: Detailed installation diagram illustrating the dimensions (e.g.,  $\phi 20$ ,  $\phi 55$ , 65, 45) and mounting hole positions for the Jectse CNC Automatic Tool Setter.



Image: A side view of the tool setter, highlighting the blue base with mounting holes and the flexible metal-sheathed cable connection point.

## 5. OPERATING INSTRUCTIONS

The Jectse CNC Automatic Tool Setter is designed for precise tool length and position measurement. Its dust-proof and waterproof structure ensures reliable operation even in environments with cooling liquids and metal filings.

1. **Tool Approach:** Position the CNC spindle with the tool directly above the tool setter's contact surface.
2. **Initiate Measurement Cycle:** Start the tool length measurement cycle from your CNC controller. The tool will slowly descend towards the tool setter.
3. **Contact and Signal:** As the tool tip makes contact with the tool setter's surface, the device sends a precise signal to the CNC controller. This signal indicates the exact Z-axis position of the tool tip.
4. **Overtravel Alarm:** The tool setter is equipped with an overtravel alarm function. If the tool descends beyond a safe limit without making contact or if excessive force is applied, an alarm signal will be sent to prevent damage.

5. **Data Processing:** The CNC controller uses this signal to automatically set or update the tool's length offset, ensuring accurate machining depth.



Image: A CNC operator observing the machine, with an overlay text stating "Alarm signal can be sent when overtravel" and "With dust-proof and waterproof structure, high accuracy," illustrating key operational features.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your Jectse CNC Automatic Tool Setter.

- **Cleaning:** Periodically clean the contact surface of the tool setter with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Inspection:** Regularly inspect the cable for any signs of wear, cuts, or damage. Ensure all connections are secure.
- **Environmental Protection:** While the device is dust-proof and waterproof, avoid exposing it to excessive amounts of coolant or debris for extended periods.
- **Storage:** If the tool setter is removed from the machine, store it in a clean, dry environment to protect its

precision components.

## 7. TROUBLESHOOTING

If you encounter issues with your tool setter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No signal detected upon contact.	Loose cable connection, damaged cable, incorrect wiring, faulty tool setter.	Check all cable connections. Inspect the cable for damage. Verify wiring against CNC controller manual. If issues persist, contact support.
Inaccurate measurements.	Dirty contact surface, unstable mounting, worn tool tip, environmental factors.	Clean the contact surface. Ensure the tool setter is securely mounted. Use sharp, undamaged tools. Check for excessive vibrations or temperature fluctuations.
Overtravel alarm triggers prematurely.	Incorrect Z-axis offset setting in CNC, mechanical obstruction, sensitivity setting.	Review CNC program for Z-axis approach parameters. Ensure no physical obstructions. Consult CNC controller manual for alarm sensitivity adjustments.

## 8. TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	Jectse
Model Number	Jectse2y15oq4wa9
Item Weight	Approx. 330 g
Material	Ground 4S material (shell)
Features	Dust-proof, Waterproof, Overtravel Alarm, Direct CNC/PLC Input
Country of Origin	China

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Jectse customer service. Keep your purchase receipt and model number (Jectse2y15oq4wa9) handy when contacting support.

You can visit the official Jectse store for more information: [Jectse Store](#)

