

## KATOOL ME-T500

# KATOOL ME-T500/ME-B600 Combo Tire Changer and Wheel Balancer Instruction Manual

Brand: KATOOL | Model: ME-T500 (Tire Changer) & ME-B600 (Wheel Balancer)

## 1. INTRODUCTION AND SAFETY INFORMATION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your KATOOL ME-T500 Tire Changer and ME-B600 Wheel Balancer Combo. Please read this manual thoroughly before operating the equipment.

### 1.1 General Safety Guidelines

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and steel-toed boots.
- Ensure the equipment is installed on a level, stable surface and securely anchored to prevent movement during operation.
- Keep the work area clean and well-lit.
- Do not operate the machine if any parts are damaged or missing.
- Disconnect power before performing any maintenance or adjustments.
- Never exceed the maximum pressure ratings for tires or the machine.
- Keep hands and clothing clear of moving parts.

## 2. COMPONENTS OVERVIEW

The KATOOL ME-T500/ME-B600 Combo includes the following main components and accessories:



**Figure 2.1:** KATOOL ME-T500 Tire Changer and ME-B600 Wheel Balancer Combo with included accessories.



**Figure 2.2:** Side view of the KATOOL ME-T500 Tire Changer, highlighting its robust construction.



**Figure 2.3:** KATOOL ME-B600 Wheel Balancer, showing the control panel and various balancing accessories.

## 2.1 Tire Changer (ME-T500)

- **Main Unit:** Heavy-duty frame with integrated air cylinder.
- **Turntable:** Four-jaw clamping system for securing wheels.
- **Mounting Head (Bird Head):** Stainless steel construction for durability and scratch resistance.
- **Swing Arm:** Fast swing arm design for quick positioning.
- **Bead Breaker:** Side-mounted, pneumatic bead breaker.
- **Foot Pedals:** Simple foot-pedal controls for various operations.
- **40mm Hex Bar:** Heavy-duty hex bar for mounting/demounting, resisting flexing.

## 2.2 Wheel Balancer (ME-B600)

- **Main Unit:** Sturdy base with integrated balancing shaft.
- **Control Panel:** Digital display and buttons for program selection and data input.
- **Wheel Mounting Cone:** For securing wheels onto the balancing shaft.
- **Accessories:** Wheel weights, caliper, and other balancing tools.

## 2.3 Included Accessories

- Tire lever/Mounting bar
- Bead breaker covers (plastic)
- Mounting paste and brush
- Inflation hose with pressure gauge
- Wheel weights (various types)
- Wheel caliper

## 3. SETUP AND INSTALLATION

Proper setup is crucial for the safe and effective operation of your KATOOL combo machine.

### 3.1 Unpacking and Inspection

1. Carefully unpack all components and verify against the packing list.
2. Inspect for any shipping damage. Report any damage immediately to the carrier and supplier.

### 3.2 Location and Anchoring

Choose a location with sufficient space around the machine for safe operation and tire handling. The machine must be anchored to a concrete floor to prevent movement during use. Ensure the floor is level.

### 3.3 Air Supply Connection

Connect the machine to a clean, dry compressed air supply capable of providing the required working pressure (0.8 MPa). Ensure all air connections are secure and leak-free.

### 3.4 Electrical Connection

Connect the machine to an appropriate electrical outlet (110V/220V/380V, 50/60HZ, depending on your model). Ensure the power supply matches the machine's requirements.

## 4. OPERATING THE TIRE CHANGER (ME-T500)

Follow these steps for safe and effective tire changing operations.



**Figure 4.1:** Adjustable clamps on the turntable, adapting to various tire sizes.



**Figure 4.2:** Simple foot-pedal controls for intuitive operation of the tire changer.

### 4.1 Bead Breaking

1. Position the wheel on the side-mounted bead breaker. Ensure the tire is flush against the machine to prevent movement.
2. Apply the bead breaker paddle to the tire sidewall, close to the rim but avoiding the tire pressure sensor (TPMS) valve.
3. Slowly actuate the bead breaker pedal to push the bead off the rim. The bead breaker provides up to 5500 LBS of force.
4. Repeat for both sides of the tire.

### 4.2 Clamping the Wheel

1. Place the wheel onto the turntable. The machine supports outside clamping (10"-19") and inside clamping (12"-21").
2. Use the foot pedal to actuate the four clamping jaws, securing the wheel firmly. Ensure the jaws are properly engaged to prevent slippage.

### 4.3 Demounting the Tire

1. Lubricate both tire beads with mounting paste.
2. Position the stainless steel mounting head (bird head) just above the rim edge.
3. Use the tire lever to pry the top bead over the mounting head.
4. Rotate the turntable using the foot pedal to fully demount the top bead.
5. Repeat for the bottom bead.

### 4.4 Mounting the Tire

1. Lubricate both tire beads and the rim edges with mounting paste.
2. Place the bottom bead of the new tire onto the rim, ensuring it sits in the drop center.
3. Position the mounting head and use the foot pedal to rotate the turntable, guiding the bottom bead onto the rim.
4. For the top bead, ensure the tire is pushed down into the notch of the rim. Use the tire lever to guide the top bead over the mounting head while rotating the turntable.

## 4.5 Inflation

1. Remove the wheel from the machine before inflating. **Never inflate a tire while it is clamped on the machine.**
2. Connect the inflation hose with pressure gauge to the tire valve.
3. Inflate the tire to the manufacturer's recommended pressure. Listen for the beads to seat with an audible 'pop'.

## 4.6 Operational Tips for Rim Protection

To prevent scratching alloy rims, especially during bead breaking and mounting/demounting:

- Use plastic bead breaker covers on the bead breaker paddle.
- Ensure the tire is flush against the bead breaker pad to minimize movement.
- When demounting/mounting, ensure the stainless steel bird head is properly adjusted to clear the rim. A slight gap (e.g., 1/4 inch) between the head and the rim is ideal to account for tire deflection.
- Always use ample tire mounting paste on both beads and rim edges.
- Consider using additional plastic protectors on the clamping jaws if working with delicate rims.

### Video: Tire Changer Operation Tips (External Resource)

Your browser does not support the video tag.

This video demonstrates practical tips for using a tire changer, including techniques to avoid scratching rims and proper bead breaking. (Source: XK988)

### Video: BILT HARD 2.0HP 110V Swing Arm Tire Changer Overview

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This video provides a quick overview of the BILT HARD 2.0HP 110V Swing Arm Tire Changer, showcasing its key features and operation. (Source: Weize)

## 5. OPERATING THE WHEEL BALANCER (ME-B600)

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Proper wheel balancing is essential for vehicle safety and tire longevity.

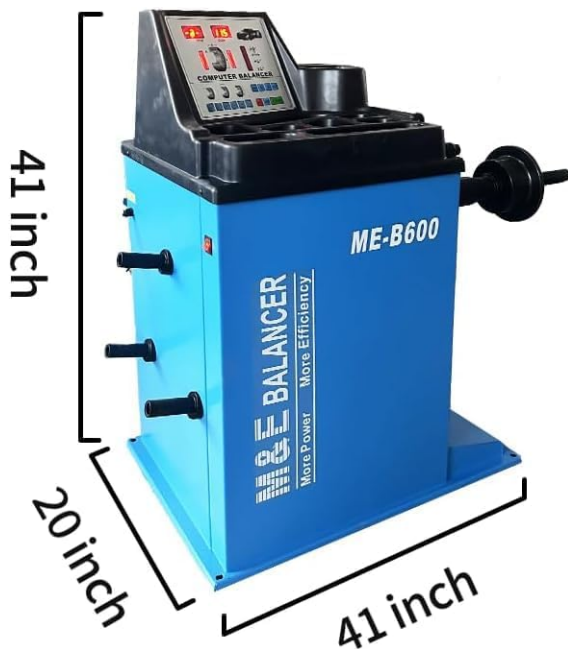


Figure 5.1: KATOOL ME-B600 Wheel Balancer with key dimensions indicated.

### 5.1 Mounting the Wheel

1. Select the appropriate mounting cone for the wheel's center bore.
2. Mount the wheel securely onto the balancer's shaft. Ensure it is centered and tightened with the quick-release nut.

### 5.2 Inputting Wheel Data

1. Using the caliper, measure the wheel's diameter, width, and distance from the machine.
2. Input these measurements into the balancer's control panel.
3. Select the desired balancing program (e.g., static, dynamic, alloy).

### 5.3 Balancing Procedure

1. Close the wheel guard (if applicable) and press the START button. The machine will spin the wheel and calculate the required weight and location.
2. The display will indicate the amount of weight needed for both the inner and outer planes, and where to place them.
3. Apply the correct weights to the indicated positions on the rim.
4. Spin the wheel again to verify the balance. Repeat the process if necessary until the display shows '0' or an acceptable tolerance.

#### Video: Wheel Balancer Operation Tips (External Resource)

Your browser does not support the video tag.

This video demonstrates practical tips for using a wheel balancer, including techniques for accurate weight placement.

(Source: XK988)

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your equipment.

### 6.1 Daily Maintenance

- Clean the machine surfaces, turntable, and mounting head after each use.
- Check air lines and connections for leaks.
- Inspect bead breaker paddle and mounting head for wear or damage.

### 6.2 Weekly Maintenance

- Lubricate moving parts, such as the swing arm pivot points and air cylinder rods, with a light oil (e.g., WD-40).
- Check and clean the air filter/regulator.

### 6.3 Monthly Maintenance

- Inspect all bolts and fasteners for tightness.
- Check the condition of electrical cables and connections.
- Verify the accuracy of the pressure gauge.

## 7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

| Problem                                     | Possible Cause  | Solution   |
|---|---|--|
| Machine not powering on                     | No power supply; tripped breaker                                      | Check power connection; reset breaker  |
| Tire changer not clamping/unclamping        | Insufficient air pressure; air leak; jammed jaws                      | Check air supply; inspect for leaks; clear obstructions  |
| Bead breaker not working effectively        | Low air pressure; improper tire positioning                           | Verify air pressure; reposition tire flush against pad   |
| Wheel balancer giving inconsistent readings | Improper wheel mounting; incorrect data input; machine not calibrated | Remount wheel securely; re-enter data; perform calibration (refer to specific balancer manual) |
| Tire difficult to mount/demount             | Insufficient lubrication; improper technique; stiff tire              | Apply more mounting paste; review operating steps; use helper arm if available                 |



## 8. SPECIFICATIONS

Technical specifications for the KATOOL ME-T500 Tire Changer and ME-B600 Wheel Balancer Combo.

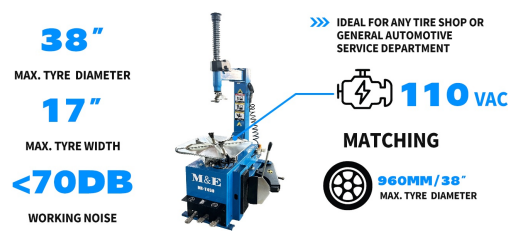


Figure 8.1: Key specifications for the KATOOL Tire Changer, including max tire diameter and width.

### SPECIFICATIONS

|                          |           |                  |                         |
|--------------------------|-----------|------------------|-------------------------|
| Rim clamping outside     | 10"-19"   | Working pressure | 0.8MPa                  |
| Rim clamping inside      | 12"-21"   | Dimensions       | 39"x33"x37"             |
| Max. tire diameter       | 960MM/38" | Motor power      | 0.75KW - 1.1KW          |
| Max. tire width          | 410MM/17" | Shipping weight  | 510LBS/230KG            |
| Table top rotation speed | 6/MIN     | Working noise    | <70DB                   |
| Bead Breaker Force       | 5500 LBS  | Gearbox motor    | 110V/220V/380V, 50/60HZ |



Figure 8.2: Detailed specifications table for the KATOOL Tire Changer.

### 8.1 KATOOL ME-T500 Tire Changer

- **Rim Clamping (Outside):** 10"-19"
- **Rim Clamping (Inside):** 12"-21"
- **Max. Tire Diameter:** 960mm (38")
- **Max. Tire Width:** 410mm (17")
- **Table Top Rotation Speed:** 6 RPM
- **Bead Breaker Force:** 5500 LBS
- **Working Pressure:** 0.8 MPa
- **Motor Power:** 0.75KW - 1.1KW
- **Shipping Weight:** 510 LBS (230 KG)
- **Working Noise:** <70dB
- **Gearbox Motor:** 110V/220V/380V, 50/60HZ
- **Dimensions:** 39"x33"x37"

### 8.2 KATOOL ME-B600 Wheel Balancer

Specific technical specifications for the ME-B600 Wheel Balancer are typically found in its dedicated manual. General features include:

- Computerized balancing system.
- Digital display for precise readings.
- Multiple balancing modes (static, dynamic, alloy).

## 9. WARRANTY AND SUPPORT

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KATOOL offers various protection plans for your equipment, including 2-Year and 3-Year Protection Plans, as well as a Complete Protect monthly plan. For detailed warranty information, service, or technical support, please refer to your purchase documentation or contact KATOOL customer service directly. Always provide your model number (ME-T500 / ME-B600) and serial number when seeking support.