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› KATOOL ME-T530Z Double Assist Arm Tire Changer and ME-B620 Wheel Balancer Combo User Manual

KATOOL 530Z & 620T

KATOOL ME-T530Z Double Assist Arm Tire Changer and ME-B620 Wheel Balancer Combo User Manual

Model: 530Z & 620T | Brand: KATOOL

1. INTRODUCTION

Welcome to the KATOOL ME-T530Z Double Assist Arm Tire Changer and ME-B620 Wheel Balancer Combo. This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your new equipment. Please read this manual thoroughly before operating the machines to ensure proper usage and to prevent damage or injury. Keep this manual accessible for future reference.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions when operating this equipment to reduce the risk of fire, electric shock, or personal injury.

- Read and understand all instructions in this manual before operating the machines.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the equipment is installed on a level, stable, and non-slip surface capable of supporting its weight and the weight of the wheels/tires being serviced.
- Disconnect power before performing any maintenance, cleaning, or adjustments.
- Keep hands, feet, and clothing clear of all moving parts during operation.
- Ensure adequate ventilation in the work area.
- Only trained and authorized personnel should operate this equipment.
- Do not modify the equipment. Use only original replacement parts.
- Keep children and unauthorized persons away from the work area.

3. PRODUCT OVERVIEW

3.1 KATOOL ME-T530Z Double Assist Arm Tire Changer

The ME-T530Z is a robust tire changer designed for efficient and safe tire service. It features a double assist arm for handling a wide range of wheel and tire combinations.

- **Alloy Steel Jaw:** Features interface carburization treatment (0.8-1.1mm deepness) and a whole quenching process for enhanced tenacity and hardness. Includes a jaw cover to protect rims.
- **Stainless Mounting Head:** Solution-treated and interface-polished, ergonomically designed, and equipped with a plastic cover for rim protection.
- **Pull-Type Pedal Control System:** Provides convenience for tire changing and maintenance.
- **High-Quality Motor:** Top-level motor with pure copper winding ensures fast heat dissipation, low defect rate, and extended service life.
- **Efficient Filter System:** High-quality filter ensures reliable oil drop and effective filtration of pressure air, prolonging the pneumatic system's life.
- **Closed Body Design:** Protects internal components effectively.

Outside Clamp

12"-22"

Inside Clamp

14"-24"

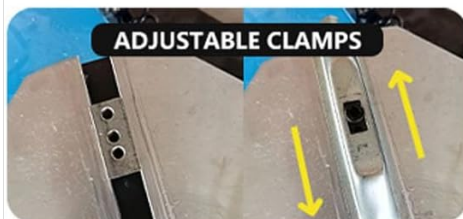


Figure 3.1: General view of the KATOOL ME-T530Z Double Assist Arm Tire Changer.



Figure 3.2: Detail of the adjustable clamps on the ME-T530Z tire changer, designed to adapt to various tire sizes.



Figure 3.3: Close-up view of the ME-T530Z tire changer's double assist arms, inflation gauge with pedal control, and other operational components.

3.2 KATOOL ME-B620 Wheel Balancer

The ME-B620 is a precise wheel balancer designed for accurate and reliable wheel balancing, ensuring smooth vehicle operation.

- **High-Strength Shaft:** The $\phi 36\text{mm}$ shaft thread undergoes quenching treatment for high strength and durability.
- **Top-Level Motor:** Features pure copper winding for fast heat dissipation, low defect rate, and extended service life.
- **Advanced Computer Board:** Adopts advanced welding technology, making it moistureproof, dustproof, and anti-static for a longer lifespan.
- **Various Balance Modes:** Offers multiple balance modes to suit different rim types, ensuring precise balancing results.
- **Built-in Diagnostics:** Includes fault diagnosis and a self-calibration program with double-side calibration.
- **User-Friendly Operation:** No memory parameters, simplifying operation.
- **Unit Selection:** Allows selection between Ounce/Gram and MM/Inch units.
- **Integrated Power Board:** High-quality integrated power board ensures stable and reliable operation.



Figure 3.4: The KATOOL ME-B620 Wheel Balancer shown with various accessories for wheel balancing.



Figure 3.5: Close-up of the ME-B620 Wheel Balancer's computer control panel, displaying various settings and input options.



Figure 3.6: The extension point at the base of the ME-B620 Wheel Balancer, designed to prevent tipping when installing larger tires.



Figure 3.7: Diagram illustrating the dimensions of the ME-B620 Wheel Balancer's shaft, including diameter and length.



Figure 3.8: Illustration of the reverse fitting method for mounting wheels on the ME-B620 Wheel Balancer.

4. SETUP

4.1 Unpacking and Inspection

Carefully unpack all components. Inspect for any shipping damage. Report any damage to the carrier and supplier immediately. Ensure all parts listed in the packing list are present.

4.2 Placement

Position the tire changer and wheel balancer on a solid, level concrete floor capable of supporting the combined weight of the machines and the heaviest wheel/tire assembly. Ensure sufficient clear space around each machine for safe operation and maintenance.

4.3 Electrical Connection

Connect the ME-T530Z Tire Changer to a 120V, 1-phase power supply. Connect the ME-B620 Wheel Balancer to a 110V, 1-phase power supply. Ensure the power outlets are properly grounded and protected by a circuit breaker of appropriate rating. Consult a qualified electrician if necessary.

4.4 Air Connection (for ME-T530Z Tire Changer)

Connect the tire changer to a compressed air supply capable of providing 0.8-1.0 Mpa (116-145 psi) of air pressure. Use a high-quality air hose and ensure all connections are secure and leak-free. The built-in filter system will help maintain air quality.

4.5 Initial Checks

Before first use, verify all bolts and fasteners are tight. Check for any obstructions in moving parts. Perform a brief functional test without a wheel/tire to ensure all controls and movements operate smoothly.

5. OPERATING INSTRUCTIONS

5.1 ME-T530Z Tire Changer Operation

This section outlines the general procedure for changing a tire. Specific tire types or wheel designs may require variations.

1. **Prepare the Wheel:** Remove the valve core to deflate the tire completely. Remove any wheel weights.
2. **Position the Wheel:** Place the wheel on the turntable, ensuring it is centered and securely clamped by the jaws (outside clamp 12"-22", inside clamp 14"-24").
3. **Break the Beads:** Use the bead breaker shovel to separate the tire beads from the rim on both sides. Apply lubricant to the beads if necessary.
4. **Demount the Tire:** Position the mounting head and use the assist arms to lift the top bead over the rim. Rotate the turntable to fully demount the top bead. Repeat for the bottom bead.
5. **Mount the New Tire:** Lubricate the beads of the new tire. Position the bottom bead onto the rim using the mounting head and turntable rotation. Use the assist arms to guide the top bead over the rim.
6. **Inflate the Tire:** Reinstall the valve core. Inflate the tire to the manufacturer's recommended pressure using the inflation gauge with pedal control. Ensure beads seat properly.
7. **Remove the Wheel:** Unclamp the wheel and remove it from the turntable.

5.2 ME-B620 Wheel Balancer Operation

Follow these steps for accurate wheel balancing.

1. **Mount the Wheel:** Securely mount the wheel onto the balancer's shaft using the appropriate cones and quick-release nut. Ensure the wheel is centered.
2. **Input Wheel Data:** Measure the rim diameter (10"-24"), rim width (1.5"-20"), and distance from the machine. Input these values into the computer balancer using the control panel. Select the appropriate balance mode.
3. **Start Balancing Cycle:** Lower the wheel guard (if applicable) and press the START button. The machine will spin the wheel and measure imbalances.
4. **Interpret Results:** The display will show the required weight amounts and their positions on both the inner and outer sides of the rim.
5. **Apply Wheel Weights:** Apply the indicated weights to the specified locations on the rim. Use appropriate tools for weight application/removal.
6. **Re-check Balance:** Spin the wheel again to confirm the balance. Repeat steps 4 and 5 if necessary until the display shows zero or minimal imbalance.
7. **Remove Wheel:** Once balanced, remove the wheel from the balancer.

Video 5.1: Demonstration of using wheel weight pliers and a hammer tool to remove or add wheel weights. This process is essential for achieving proper wheel balance after using the ME-B620 Wheel Balancer.

6. MAINTENANCE

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

6.1 Daily Checks

- Inspect all cables and hoses for wear or damage.
- Check air pressure and ensure the air filter is clean (for tire changer).

- Clean the turntable and mounting head of the tire changer.
- Clean the balancer shaft and cones.

6.2 Weekly/Monthly Maintenance

- Lubricate all moving parts and pivot points on the tire changer as recommended.
- Check and tighten all fasteners.
- Inspect the drive belt on the wheel balancer for tension and wear.
- Clean the computer board area of the balancer, ensuring it remains free of dust and moisture.

6.3 Calibration (ME-B620 Wheel Balancer)

The ME-B620 features a built-in self-calibration program. Refer to the on-screen menu for instructions on performing calibration. Regular calibration ensures continued accuracy.

7. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

7.1 ME-T530Z Tire Changer

- **Machine not starting:** Check power connection, circuit breaker, and emergency stop button.
- **Jaws not clamping/unclamping:** Verify air supply pressure, check for obstructions, inspect pneumatic lines.
- **Turntable not rotating:** Check motor connection, drive belt, and ensure no heavy load is jamming the system.

7.2 ME-B620 Wheel Balancer

- **Inaccurate balancing readings:** Ensure wheel is mounted correctly and securely. Verify input data (rim diameter, width) is accurate. Perform self-calibration.
- **Machine not spinning:** Check power connection, emergency stop button, and ensure the wheel guard is closed.
- **Error codes on display:** Refer to the machine's internal fault diagnosis system or contact support with the specific code.

8. SPECIFICATIONS

8.1 KATOOL ME-T530Z Tire Changer Specifications

Feature	Specification
Max Wheel Diameter	41" / 1040mm
Max Wheel Width	15" / 380mm
Outside Clamp	12" - 22"
Inside Clamp	14" - 24"
Power Supply	120V 1PH
Motor Power	2.0HP / 1.5KW
Rotation Speed	6.8 r/min
Air Pressure	0.8-1.0 Mpa (116-145 psi)
Net Weight	275 KG

8.2 KATOOL ME-B620 Wheel Balancer Specifications

Feature	Specification
Max Wheel Weight	65 kg / 144 lbs
Motor Power	250 W
Voltage	110V 1PH
Balancing Precision	1 g
Rotation Speed	210 rpm
Rim Diameter	10" - 24" (254 - 610mm)
Rim Width	1.5" - 20" (38 - 508mm)
Balancing Time	8-10 s
Noise	<70 dB(A)
Net Weight	105 kg
Outer Dimension (L×W×H)	1200×1400×1760 mm
Working Temperature	0 - 50 °C
Shaft Thread	φ36 mm

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The KATOOL ME-T530Z Double Assist Arm Tire Changer and ME-B620 Wheel Balancer Combo comes with a **12-month warranty on all parts** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, unauthorized modifications, or improper maintenance.

9.2 Customer Support

For technical assistance, warranty claims, or to order replacement parts, please contact your authorized KATOOL dealer or the seller from whom you purchased the product. Provide your model number (530Z & 620T) and date of purchase when contacting support.