

KATOOL KT-T830 & KT-B700

KATOOL KT-T830 Tire Changer & KT-B700 Wheel Balancer Combo Instruction Manual

Comprehensive Guide for Operation and Maintenance

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your KATOOL KT-T830 Tire Changer and KT-B700 Wheel Balancer combo machine. This robust equipment is designed for professional automotive service, offering reliable performance for tire mounting, demounting, and precise wheel balancing. The KT-T830 Tire Changer features an outside clamp range of 12-22 inches and an inside clamp range of 14-24 inches, equipped with 4 aluminum pedals, a 7.9-inch oil cylinder, and a strong structure with a larger pneumatic lock. The KT-B700 Wheel Balancer ensures accurate wheel balancing for various tire types.



Figure 1: KATOOL KT-T830 Tire Changer and KT-B700 Wheel Balancer Combo Machine.

2. SAFETY PRECAUTIONS

Always prioritize safety when operating heavy machinery. Failure to follow these instructions may result in serious injury or equipment damage.

- Read and understand the entire manual before operation.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the machine is properly grounded and connected to the correct power supply (110V 1PH).
- Maintain a clean and well-lit work area.
- Keep hands, feet, and clothing clear of moving parts.
- Do not operate the machine if any parts are damaged or missing.
- Ensure proper air pressure is supplied to the tire changer (0.8-1.0MPa / 116-145 PSI).
- Never exceed the maximum wheel diameter (41 inches / 1040mm) or wheel width (15 inches / 380mm).
- Disconnect power before performing any maintenance or repairs.

3. COMPONENTS AND FEATURES

The KATOOL KT-T830 Tire Changer and KT-B700 Wheel Balancer are equipped with advanced features for efficient tire service.

3.1 KT-T830 Tire Changer Key Features:

- **Clamping Range:** Outside clamp 12-22 inches, Inside clamp 14-24 inches.
- **Pedals:** 4 durable aluminum pedals for precise control.
- **Oil Cylinder:** 7.9-inch (200mm) oil cylinder for powerful operation.
- **Pneumatic Lock:** Larger pneumatic lock for enhanced stability.
- **Mounting Head:** Stainless steel mounting head with solution treatment and interface polishing, designed for optimal engineering principles and includes a plastic cover to protect rims.
- **Motor:** Top-level motor with pure copper winding for fast heat dissipation, low defect rate, and extended lifespan.
- **Bead Breaker:** Stainless bead breaker cylinder with double assist arm.
- **Pedal Control System:** Pull-type pedal control system for convenience in changing and maintenance.





Figure 2: KATOOL KT-T830 Tire Changer with its robust design.

New upgrade version

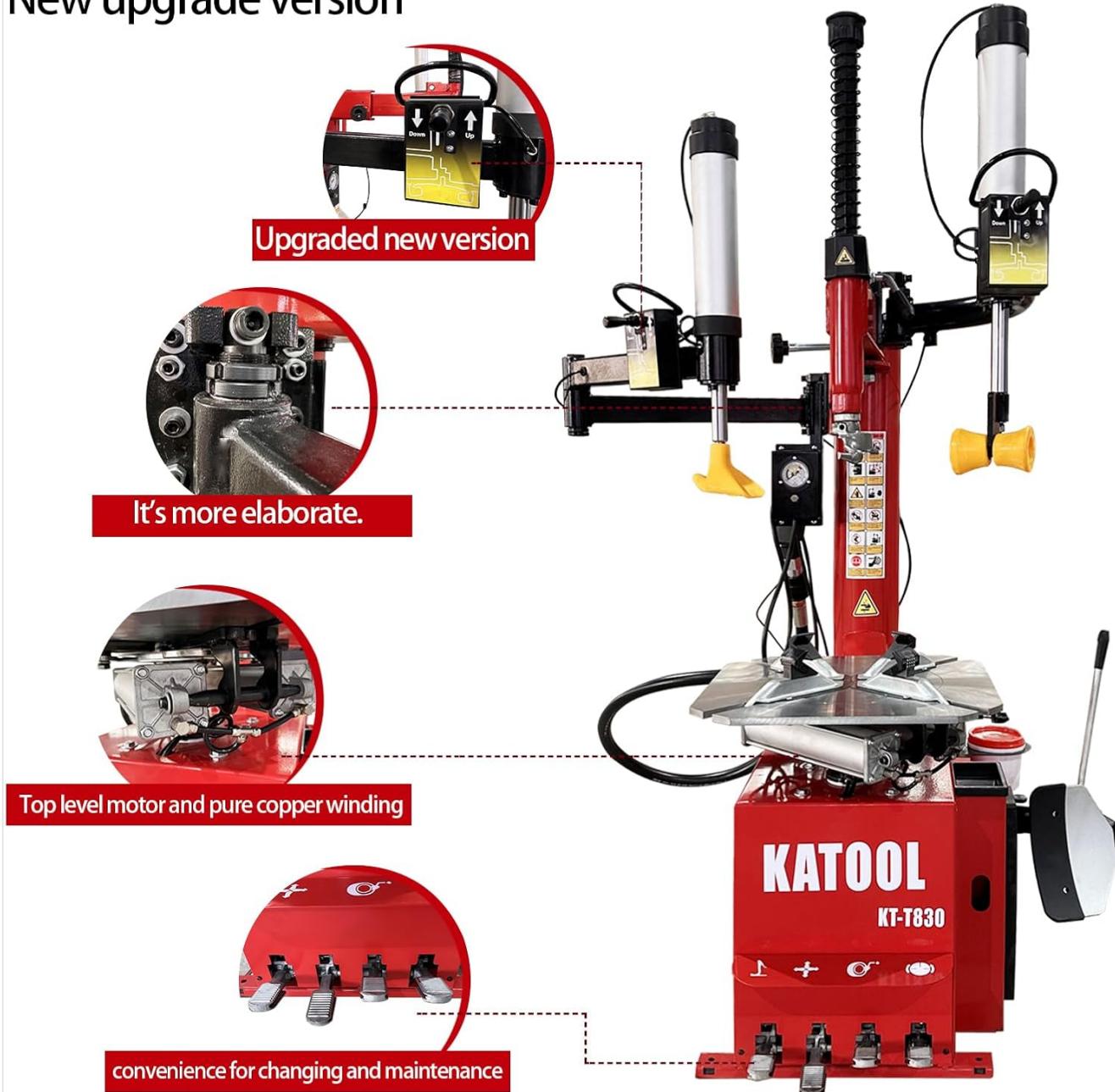
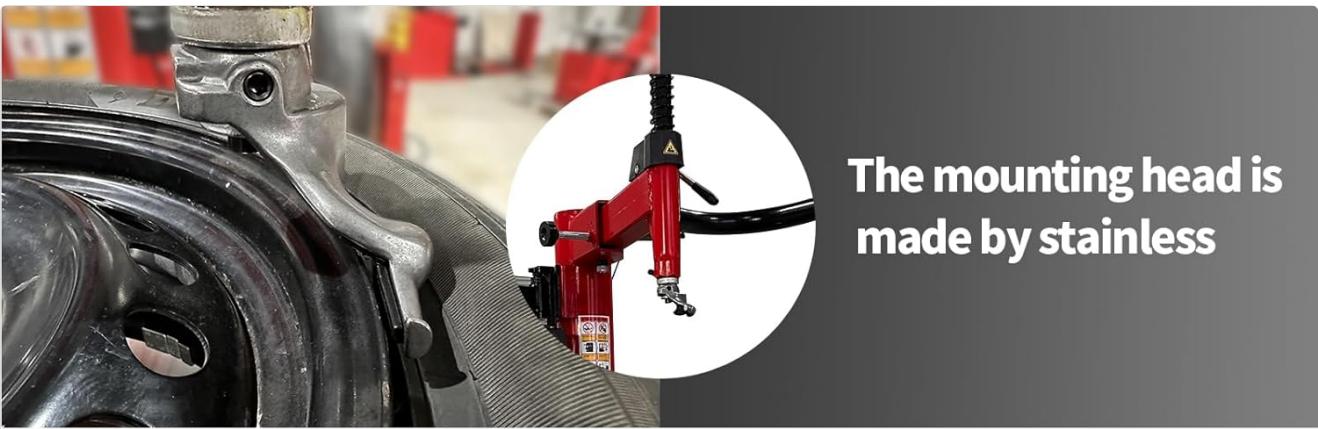
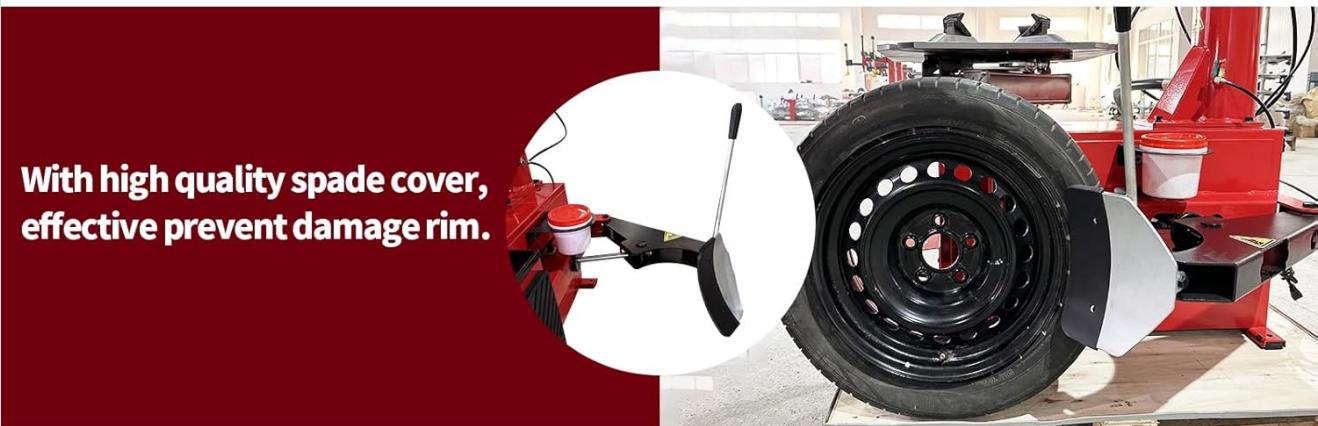


Figure 3: Detailed view of the upgraded features including the motor and pedal system.



The mounting head is made by stainless



stainless bead breaker cylinder

Figure 4: Close-up of the stainless mounting head and bead breaker cylinder.

3.2 KT-B700 Wheel Balancer Key Features:

- **Precision Balancing:** Designed for accurate and efficient wheel balancing.
- **User Interface:** Intuitive control panel for easy operation.
- **Durable Construction:** Built for longevity and consistent performance in a workshop environment.



Figure 5: KATOOL KT-B700 Wheel Balancer.



Figure 6: Illustration of the wheel balancer shaft dimensions.

4. SETUP AND INSTALLATION

Proper setup is crucial for the safe and effective operation of your KATOOL equipment. While specific assembly instructions may vary, the general steps are outlined below. It is recommended to consult any included diagrams or seek professional assistance if unsure.

- 1. Unpacking:** Carefully unpack all components and verify against the packing list. Inspect for any shipping damage.
- 2. Placement:** Position the tire changer and wheel balancer on a level, stable surface capable of supporting their weight and the weight of the tires/wheels being serviced. Ensure adequate clearance around the machines for safe operation.
- 3. Assembly (Tire Changer KT-T830):**
 - Attach the vertical column and swing arm assembly to the main body.
 - Connect the pneumatic lines and ensure all fittings are secure.

- Install the mounting head and bead breaker arm.
- Ensure all pedals are correctly installed and functional.

4. Assembly (Wheel Balancer KT-B700):

- Attach the wheel shaft and any protective covers.
- Ensure the control panel is securely mounted.

5. **Electrical Connection:** Connect the machines to a dedicated 110V, single-phase power outlet. Ensure the circuit can handle the 2.0HP motor load.

6. **Air Supply Connection (KT-T830):** Connect a compressed air line to the tire changer. The recommended air pressure is 0.8-1.0 MPa (116-145 PSI).

7. **Initial Checks:** Before first use, perform a visual inspection of all connections, hoses, and moving parts. Test all controls and safety mechanisms without a tire.

5. OPERATING INSTRUCTIONS

This section details the general procedures for using the KATOOL KT-T830 Tire Changer and KT-B700 Wheel Balancer.

5.1 KT-T830 Tire Changer Operation (Mounting & Demounting Tires)

- 1. Prepare the Wheel:** Remove any old balance weights and valve stem.
- 2. Bead Breaking:** Position the wheel on the bead breaker arm. Use the foot pedal to activate the bead breaker, pushing the tire bead away from the rim. Repeat for both sides of the tire.
- 3. Clamping the Wheel:** Place the wheel onto the turntable. Use the clamping pedals to secure the wheel firmly. Ensure the clamps are set for either outside (12-22") or inside (14-24") clamping as required.
- 4. Lubricate Beads:** Apply tire lubricant to both tire beads and the rim edges.
- 5. Demounting the Tire:**
 - Position the mounting head just above the rim edge.
 - Use a tire lever to pry the top bead over the mounting head.
 - Activate the turntable rotation pedal to fully demount the top bead.
 - Repeat for the bottom bead.

6. Mounting the Tire:

- Place the bottom bead onto the rim, ensuring it's below the mounting head.
- Activate the turntable rotation pedal to mount the bottom bead.
- Position the top bead under the mounting head and activate the turntable to mount the top bead.

7. **Inflation:** Inflate the tire to the manufacturer's recommended pressure using the integrated inflation gauge and pedal control. Ensure beads are properly seated.

8. **Release Wheel:** Use the clamping pedals to release the wheel from the turntable.

Your browser does not support the video tag.

Video 1: Detailed operation of the KATOOL KT-T830 Tire Changer and KT-B700 Wheel Balancer.

5.2 KT-B700 Wheel Balancer Operation

- 1. Mount the Wheel:** Securely mount the wheel onto the balancer's shaft using the appropriate cone and quick-release nut.
- 2. Input Data:** Using the control panel, input the wheel's diameter, width, and offset. Refer to the wheel's specifications

or measure accurately. The control panel allows for precise adjustments (e.g., 15.0 to 16.0 inches as shown in the video).

3. **Start Balancing Cycle:** Press the "START" button. The machine will spin the wheel and measure any imbalances.
4. **Apply Weights:** The display will indicate the amount and location for applying balance weights. Attach the weights to the inner and outer rims as instructed.
5. **Re-spin and Verify:** Spin the wheel again to confirm proper balancing. The display should show zero or minimal imbalance. Repeat the process if necessary until the wheel is balanced.
6. **Remove Wheel:** Once balanced, remove the wheel from the balancer.

6. MAINTENANCE

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

- **Daily Cleaning:** Clean the machine surfaces, especially the turntable and clamping jaws, after each use to remove tire debris and lubricant residue.
- **Lubrication:** Periodically lubricate moving parts, such as the swing arm pivot points and cylinder rods, according to the manufacturer's recommendations.
- **Air System Check (KT-T830):** Regularly check air lines for leaks and ensure the air filter/lubricator unit (if present) is functioning correctly. Drain any moisture from the air tank.
- **Mounting Head Inspection:** Inspect the mounting head for wear or damage. Replace the plastic protective covers as needed to prevent rim damage.
- **Electrical Connections:** Periodically check all electrical connections for tightness and signs of wear.
- **Bead Breaker Pad:** Inspect the bead breaker pad for wear and replace if necessary.
- **Wheel Balancer Calibration:** For the KT-B700, refer to the balancer's specific instructions for periodic calibration to maintain accuracy.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Tire Changer not operating (no power)	Power cord unplugged, circuit breaker tripped, emergency stop engaged.	Check power connection, reset breaker, disengage emergency stop.
Pneumatic functions weak or non-responsive	Low air pressure, air line leak, clogged air filter.	Check air supply pressure (ensure 116-145 PSI), inspect lines for leaks, clean/replace air filter.
Difficulty breaking bead or mounting/demounting tire	Insufficient lubrication, incorrect machine setup, worn mounting head/bead breaker.	Apply more tire lubricant, verify proper clamping and arm positioning, inspect and replace worn parts.
Wheel Balancer shows inconsistent readings	Improper wheel mounting, incorrect data input, machine out of calibration.	Ensure wheel is securely mounted, re-enter wheel data carefully, perform calibration as per balancer manual.

Problem	Possible Cause	Solution
Excessive weld splatter inside bead blaster canister (as per user review)	Manufacturing residue.	Thoroughly inspect and remove all loose weld splatter before first use to prevent rust or damage to tires. This may require tipping and vacuuming.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	KATOOL
Model Numbers	KT-T830 & KT-B700
Tire Changer Motor Power	2.0HP / 1.5KW
Power Supply	110V 1PH
Max Wheel Diameter	41 inches / 1040mm
Max Wheel Width	15 inches / 380mm
Outside Clamp Range	12-22 inches
Inside Clamp Range	14-24 inches
Air Pressure (Tire Changer)	0.8-1.0MPa (116-145 PSI)
Rotation Speed	6.8R/MIN
Noise Level	< 70 dB
Net Weight	562 LBS / 255 KG

PRODUCT PARAMETERS

MAX WHEEL DIAMETER	41"/1040MM	MOTOR POWER	2.0HP/1.5KW
MAX WHEEL WIDTH	15"/380MM	ROTATION SPEED	6.8R/MIN
OUTSIDE CLAMP	12"-22"	AIR PRESSURE	0.8-1.0MPA(116-145PSI)
INSIDE CLAMP	14"-24"	NET WEIGHT	562 LBS/255 KG
POWER SUPPLY	110V 1PH		



Figure 7: Visual representation of KATOOL KT-T830 product parameters.

9. WARRANTY AND SUPPORT

KATOOL products are manufactured by Rainier Engineering, Ltd., a professional manufacturer and distributor of automotive service equipment. While specific warranty details should be confirmed at the point of purchase, KATOOL aims to provide reliable offerings in the market.

For technical assistance, parts, or service inquiries, please contact KATOOL customer support. Information regarding extended protection plans may also be available from your retailer.

For general inquiries or to explore other KATOOL products, visit the official KATOOL store: [KATOOL Store on Amazon](#).