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ATLAS TC229

ATLAS TC229 Rim-Clamp Tire Changer with Beadblaster Instruction Manual

Model: TC229

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of the ATLAS TC229 Rim-Clamp Tire Changer with Beadblaster. The TC229 is designed for changing tires on various vehicles, including passenger cars, light trucks, ATVs, and motorcycles (with optional adapters). It features a built-in Beadblaster system for assisting with stubborn tire inflation.

2. SAFETY INFORMATION

WARNING: Read and understand all safety warnings and instructions before operating this equipment. Failure to follow these instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the machine is properly grounded and connected to a suitable power supply.
- Maintain a clean and well-lit work area.
- Do not operate the machine if any parts are damaged or missing.
- Keep hands, feet, and clothing clear of moving parts.
- Never exceed the maximum tire pressure ratings.
- Ensure adequate air supply pressure is maintained for proper operation of pneumatic components.
- Only trained personnel should operate this equipment.

3. PRODUCT COMPONENTS

Familiarize yourself with the key components of the ATLAS TC229 Tire Changer:

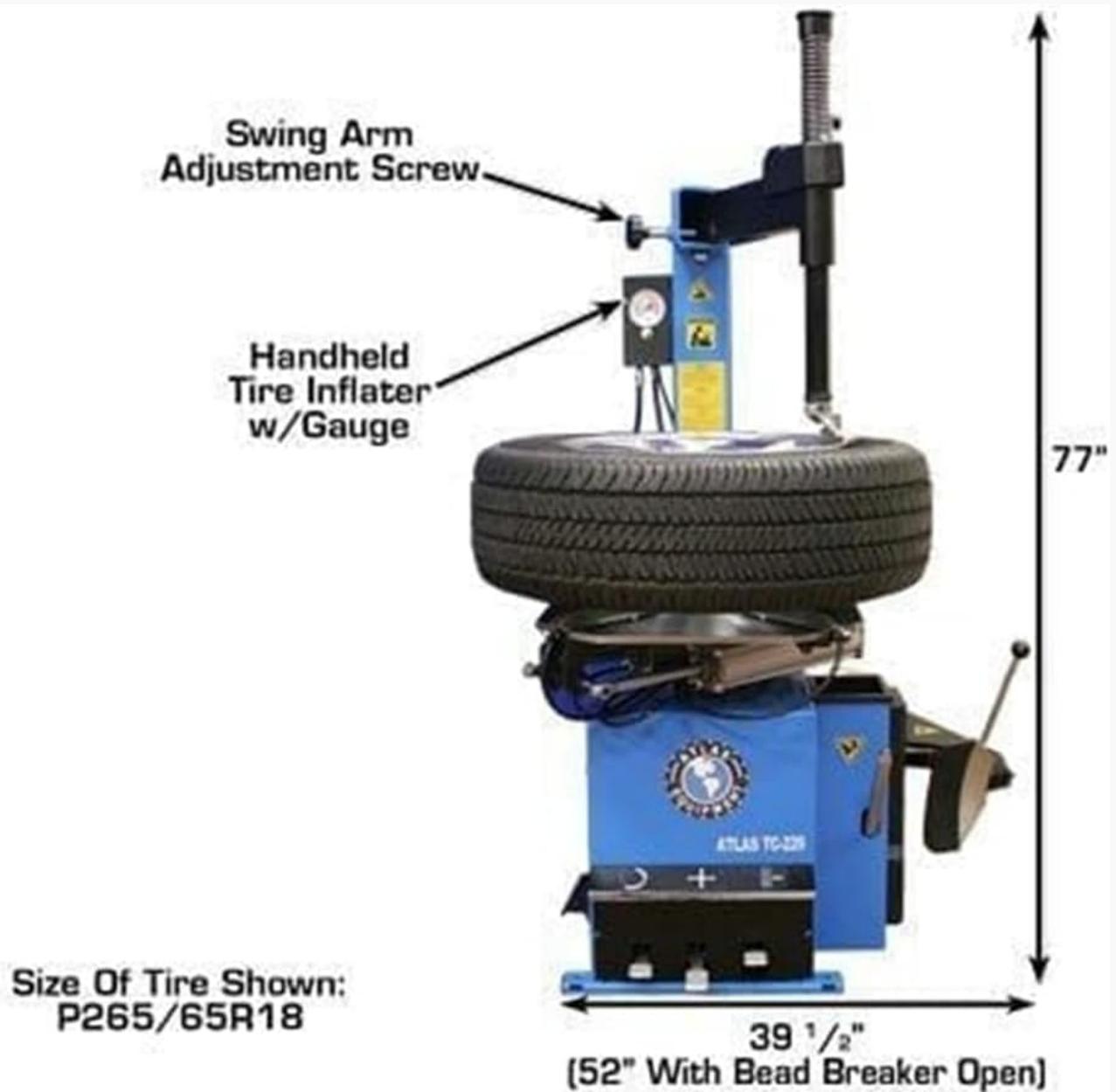


Figure 3.1: Front view of the ATLAS TC229 Tire Changer with a car tire mounted. This image highlights the Swing Arm Adjustment Screw, Handheld Tire Inflator with Gauge, and overall dimensions (77" height, 39.5" width, 52" with bead breaker open).

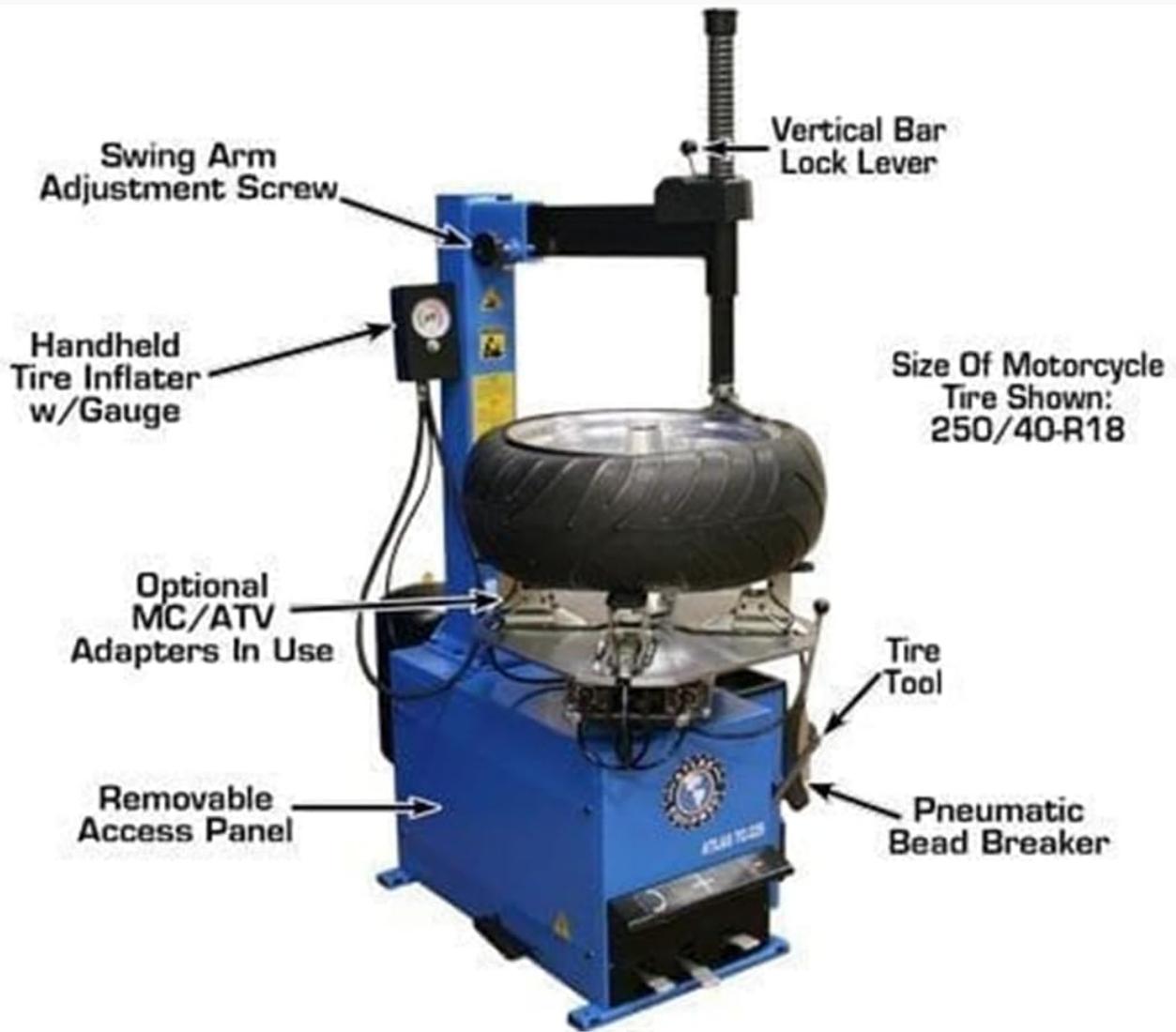


Figure 3.2: Side view of the ATLAS TC229 Tire Changer with a motorcycle tire (250/40-R18) using optional MC/ATV adapters. Key components visible include the Vertical Bar Lock Lever, Swing Arm Adjustment Screw, Handheld Tire Inflator with Gauge, Removable Access Panel, Tire Tool, and Pneumatic Bead Breaker.

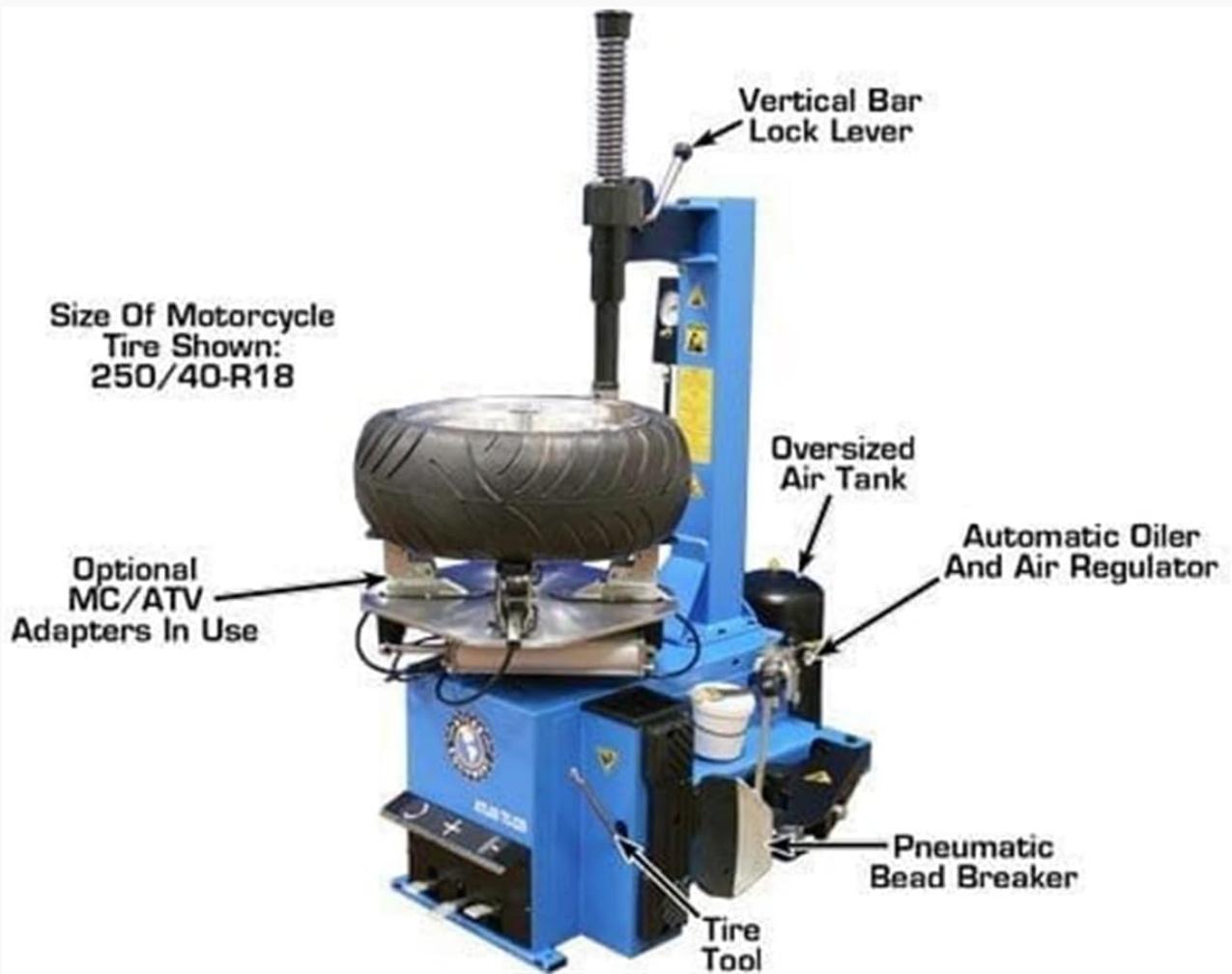


Figure 3.3: Rear-side view of the ATLAS TC229 Tire Changer, illustrating the Oversized Air Tank and the Automatic Oiler and Air Regulator. A motorcycle tire is shown with optional adapters.

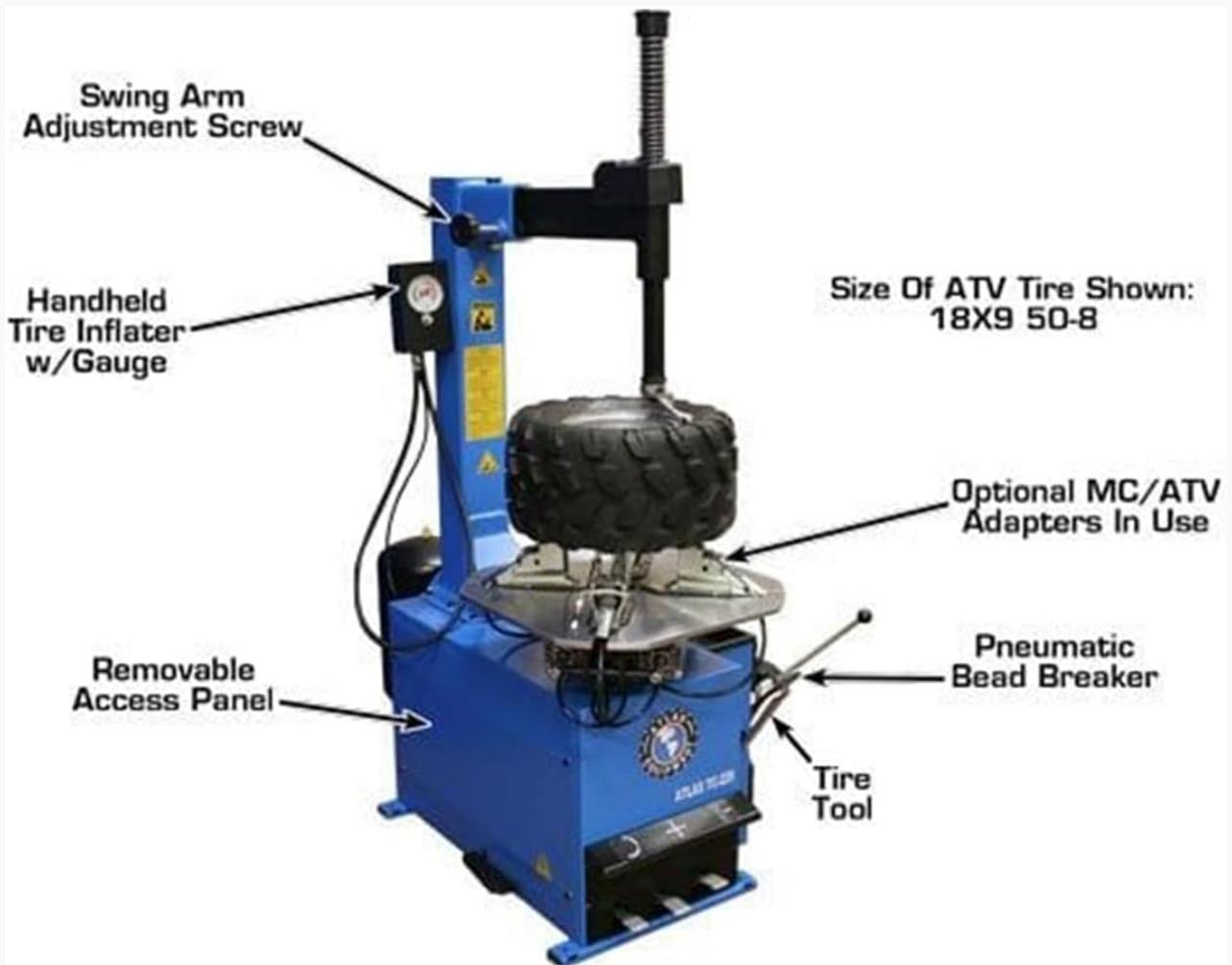


Figure 3.4: Side view of the ATLAS TC229 Tire Changer with an ATV tire (18X9 50-8) using optional MC/ATV adapters. This view emphasizes the Removable Access Panel, Pneumatic Bead Breaker, and Tire Tool.

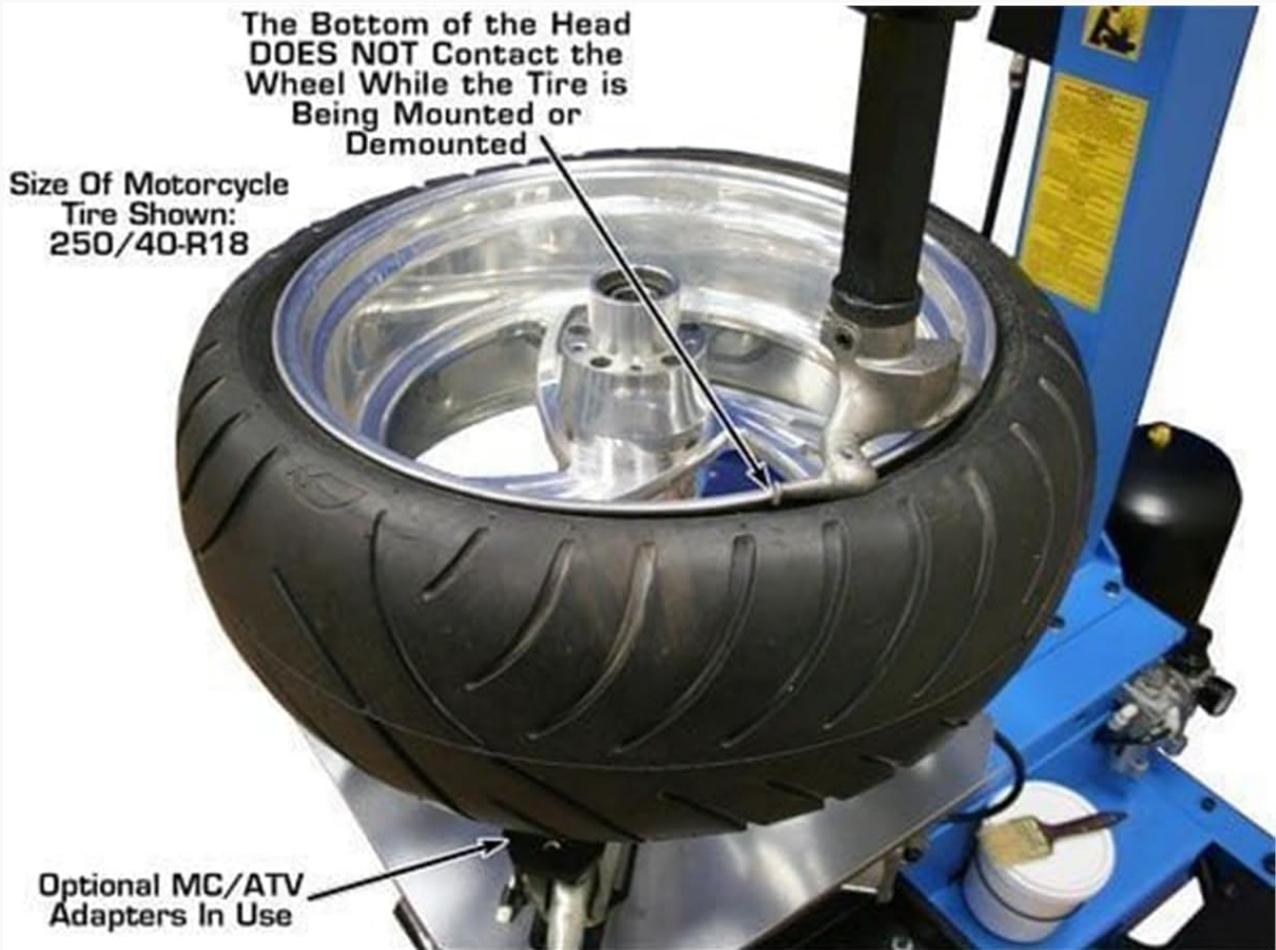


Figure 3.5: Close-up view demonstrating that the bottom of the mounting head should not contact the wheel during tire mounting or demounting. A motorcycle tire is shown with optional MC/ATV adapters.

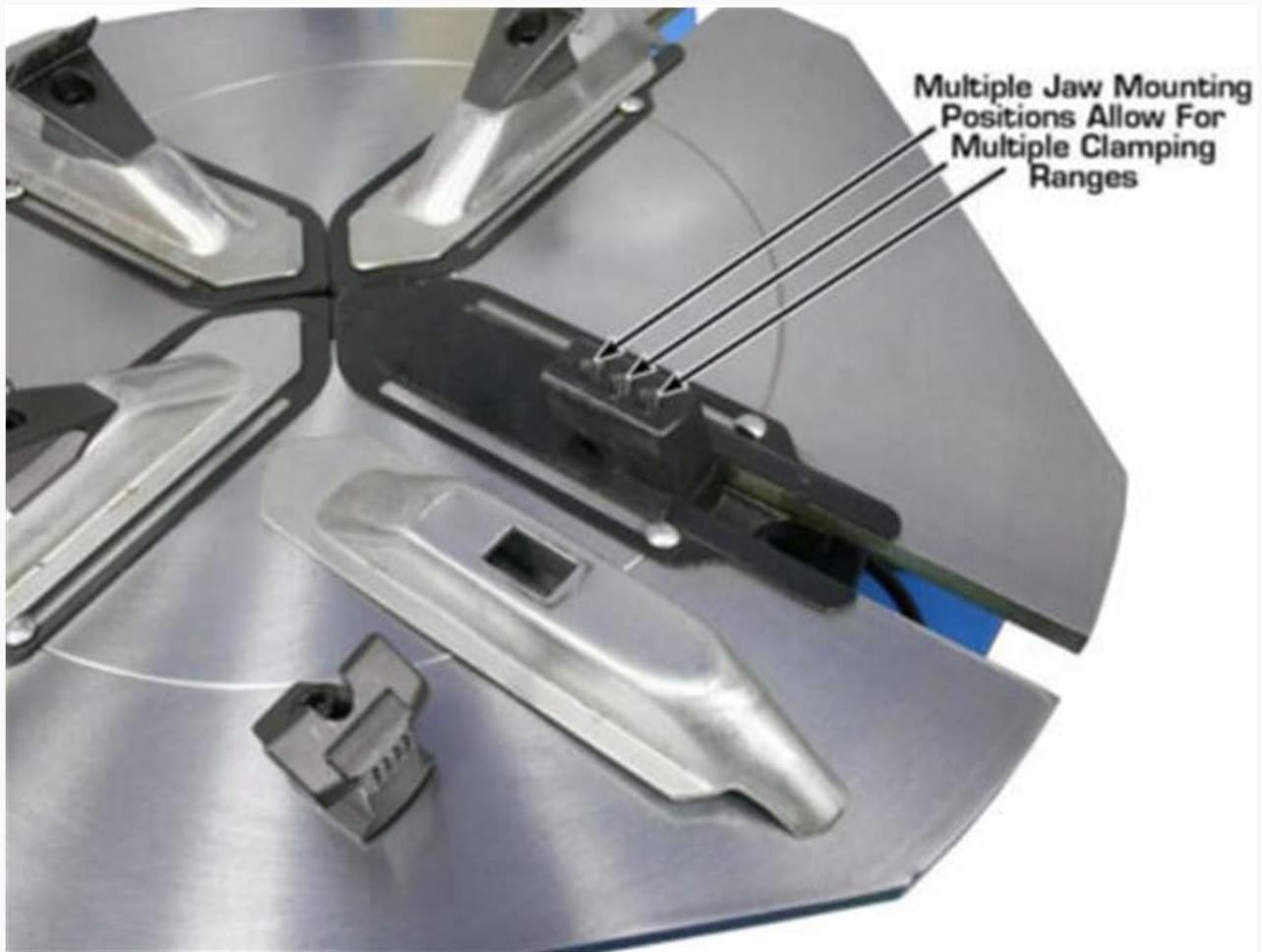


Figure 3.6: Detail of the jaw assembly, illustrating multiple jaw mounting positions that allow for various clamping ranges to accommodate different wheel sizes.

Key Components List:

- **Swing Arm Adjustment Screw:** Used to position the mounting head relative to the tire.
- **Handheld Tire Inflator w/ Gauge:** For controlled inflation of tires.
- **Vertical Bar Lock Lever:** Secures the vertical post in position.
- **Pneumatic Bead Breaker:** Air-powered tool to separate the tire bead from the rim.
- **Tire Tool:** Manual lever for demounting and mounting tires.
- **Removable Access Panel:** Provides access to internal components for maintenance.
- **Oversized Air Tank:** Stores compressed air for the Beadblaster and pneumatic functions.
- **Automatic Oiler and Air Regulator:** Conditions the air supply for optimal machine performance and longevity.
- **Jaw Clamps:** Securely hold the wheel on the turntable.
- **Optional MC/ATV Adapters:** Used for smaller motorcycle and ATV wheels.

4. SETUP AND INSTALLATION

Proper setup is critical for safe and effective operation.

1. **Unpacking and Inspection:** Carefully unpack the tire changer. Inspect all components for shipping damage. Report any damage immediately to the carrier and supplier.
2. **Assembly:** Assemble the main components according to the separate assembly instructions provided with

the unit. Ensure all fasteners are tightened securely.

3. **Mounting:** Securely bolt the tire changer to a concrete floor using appropriate anchor bolts. This prevents movement during operation.
4. **Air Supply Connection:** Connect the machine to a clean, dry compressed air supply capable of providing the required pressure (typically 110-175 PSI) and volume. Ensure the air line passes through the integrated filter/regulator/lubricator unit.
5. **Electrical Connection:** Connect the machine to a dedicated electrical circuit with the correct voltage and amperage as specified on the machine's data plate. Ensure proper grounding.
6. **Initial Lubrication:** Check the oil level in the automatic oiler and fill with appropriate pneumatic tool oil if necessary.
7. **Function Test:** Before first use, perform a full function test of all pneumatic and electrical components without a tire to ensure smooth operation.

5. OPERATING INSTRUCTIONS

Follow these steps for changing a tire:

1. **Prepare the Wheel:** Remove any weights, valve cores, and ensure the tire is completely deflated.
2. **Bead Breaking:**
 - Position the wheel on the bead breaker arm.
 - Actuate the pneumatic bead breaker to separate the tire bead from the rim. Repeat for both sides of the tire.
3. **Mounting the Wheel:**
 - Place the wheel onto the turntable.
 - Adjust the jaw clamps to securely hold the wheel from the inside or outside, depending on the rim type and desired clamping method. Ensure plastic jaw covers are used to protect alloy wheels.
4. **Positioning the Mounting Head:**
 - Swing the vertical arm into position.
 - Lower the mounting head until it is just above the rim edge. Lock the vertical bar using the Vertical Bar Lock Lever.
 - Adjust the Swing Arm Adjustment Screw to ensure the mounting head clears the rim by approximately 2-3mm, as shown in Figure 3.5.
5. **Demounting the Tire:**
 - Lubricate the tire beads and rim edges with tire lubricant.
 - Insert the tire tool between the tire bead and the mounting head.
 - Rotate the turntable clockwise while guiding the tire bead over the mounting head with the tire tool.
 - Repeat for the second bead.
6. **Mounting the New Tire:**
 - Lubricate the new tire beads and rim edges.
 - Place the bottom bead onto the rim, using the tire tool and turntable rotation.
 - For the top bead, ensure the mounting head is correctly positioned. Use the tire tool and turntable rotation to guide the bead onto the rim.

7. Tire Inflation (with Beadblaster):

- Connect the handheld tire inflator to the tire valve stem.
- For standard inflation, use the inflator to slowly inflate the tire to the recommended pressure.
- For stiff sidewall tires or when beads are difficult to seat, use the Beadblaster function. This delivers a rapid burst of air to help seat the beads. **Exercise extreme caution and stand clear when using the Beadblaster.**
- Once beads are seated, inflate to the manufacturer's recommended pressure.

8. **Final Steps:** Remove the wheel from the turntable. Install the valve core and check for leaks.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your ATLAS TC229.

• Daily:

- Inspect air lines and fittings for leaks.
- Check the oil level in the automatic oiler and refill if low (use pneumatic tool oil).
- Clean the turntable and jaw clamps.

• Weekly:

- Drain moisture from the air filter bowl.
- Lubricate moving parts, such as the swing arm pivot points and bead breaker cylinder, with appropriate grease.

• Monthly/Quarterly:

- Inspect all electrical connections for tightness and signs of wear.
- Check the condition of the drive belt (if applicable) and adjust tension if necessary.
- Inspect plastic jaw covers and mounting head inserts for wear and replace as needed.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine not powering on	No power supply; tripped circuit breaker; faulty switch.	Check power connection; reset breaker; contact service.
Pneumatic functions (jaws, bead breaker) not working or weak	Low air pressure; air leak; clogged filter; low oil in lubricator.	Check air supply pressure; inspect for leaks; clean filter; refill oiler.
Turntable not rotating	Motor issue; drive belt issue; electrical fault.	Check electrical connections; inspect drive belt; contact service.
Beads not seating during inflation	Insufficient lubrication; tire/rim mismatch; low air volume/pressure; Beadblaster not used effectively.	Apply more lubricant; verify tire/rim compatibility; ensure adequate air supply; use Beadblaster as directed.

8. SPECIFICATIONS

Feature	Detail
Model	ATTC229
Item Weight	550 pounds
Product Dimensions (L x W x H)	42 x 38 x 30 inches
Manufacturer Part Number	ATTC229-FPD
Features	Rim-Clamp, Beadblaster, Air Jaws, Powerful Breaker, Adjustable Jaws, Inflator Box, Tool Kit, Plastic Covers
Air Supply Requirement	Typically 110-175 PSI (refer to machine label for exact requirement)

9. WARRANTY AND SUPPORT

The ATLAS TC229 Tire Changer comes with a **one-year parts-only warranty**. This warranty covers manufacturing defects in materials and workmanship for a period of one year from the date of purchase. It does not cover wear items or damage due to misuse or improper maintenance.

Replacement parts and wear items are consistently kept in stock to ensure continuous support for your equipment. For technical assistance, warranty claims, or to order replacement parts, please contact ATLAS Automotive Equipment customer service. You can find more information and contact details on the official [ATLAS Store](#).