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› HPDMC 21-inch Rim 1.5HP Tire Changer and 5HP Air Compressor with 60-Gallon ASME Tank Instruction Manual

HPDMC 810+56008

HPDMC 21-inch Rim 1.5HP Tire Changer and 5HP Air Compressor with 60-Gallon ASME Tank Instruction Manual

Model: 810+56008 | Brand: HPDMC

1. INTRODUCTION

Thank you for choosing the HPDMC 21-inch Rim 1.5HP Tire Changer and 5HP Air Compressor with 60-Gallon ASME Tank. This comprehensive system is designed for efficient tire repair and wheel balancing in professional garage and shop environments. This manual provides essential information for safe operation, proper setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your equipment. Please read this manual thoroughly before installation, operation, or maintenance.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death. Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and safety footwear.

- Read and understand all instructions before operating the equipment.
- Ensure the equipment is installed on a level, stable surface.
- Connect to appropriate electrical supply (110V/60Hz for Tire Changer, 220V/1Ph for Air Compressor).
- Keep hands, feet, and clothing clear of moving parts.
- Do not exceed the maximum operating pressure of 145 PSI for the air compressor.
- Regularly inspect all components for wear or damage. Do not operate damaged equipment.
- Keep children and unauthorized personnel away from the operating area.
- Always depressurize the air tank before performing any maintenance or repairs.

3. COMPONENTS AND PARTS

3.1. Tire Changer Components



Figure 1: Main components of the HPDMC Tire Changer. Key parts include the Locking Handle, Swing Arm, Mounting Bar, Mounting/Demounting Head, Air Gun and Gauge, Vertical Arm, Turntable, Water Reservoir, Reverse Control Pedal, Clamp Control Pedal, Bead Breaker Control Pedal, Bead Breaker, Wheel Support, and Crowbar.

3.2. Air Compressor Components



Figure 2: HPDMC 60-Gallon ASME Air Compressor. This unit features a vertical tank design for space-saving and easy access.

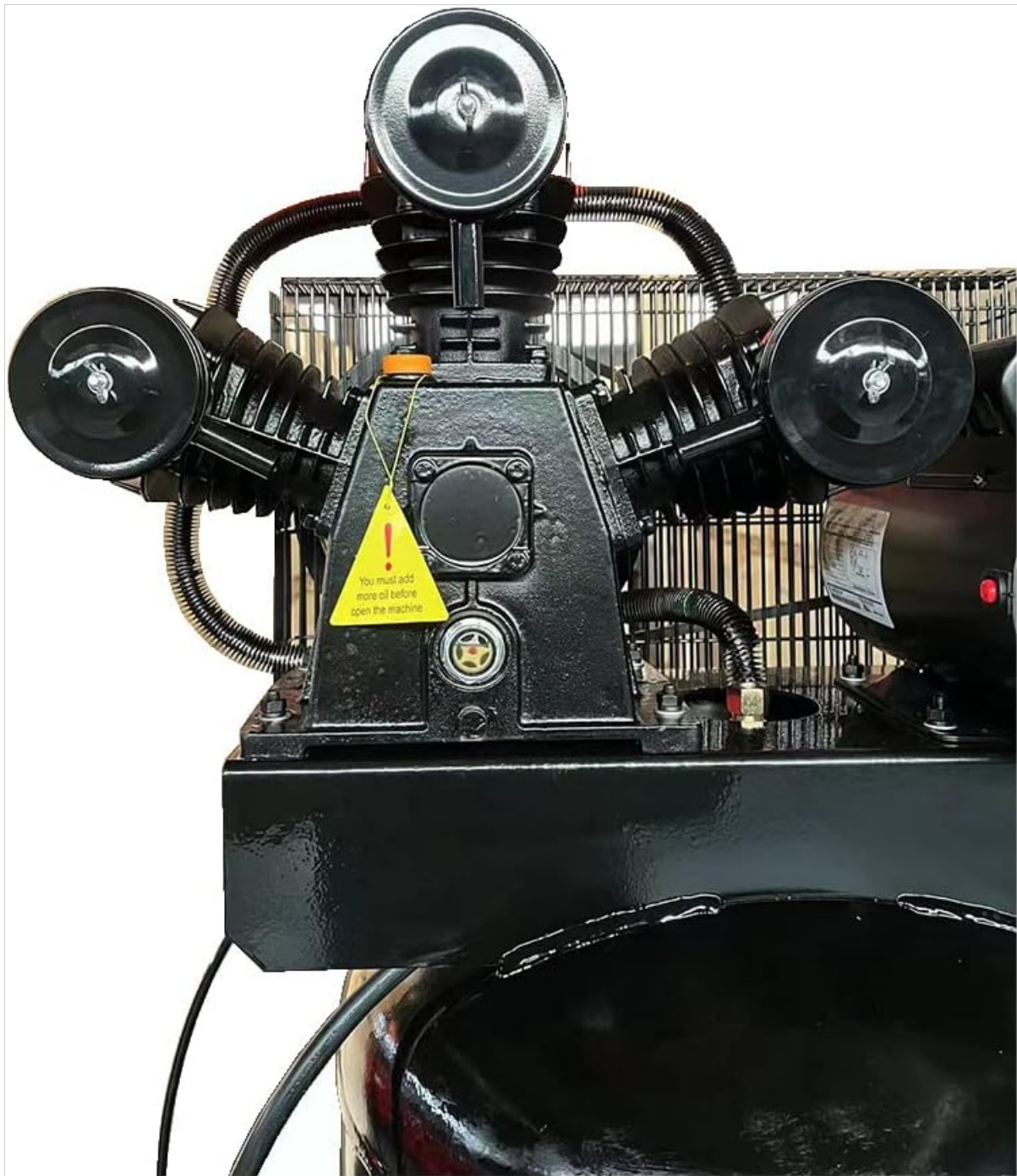


Figure 3: Detail of the 5HP motor and 3-Cylinder Cast-Iron pump design, highlighting the warning label to add oil before operation.

4. SETUP INSTRUCTIONS

4.1. Unpacking and Inspection

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

4.2. Assembly

1. **Air Compressor:** Attach the wheels and rubber stopper to the base of the air compressor as per the included hardware.
2. **Tire Changer:** Assemble the swing arm, mounting bar, and mounting/demounting head. Ensure all connections are secure.
3. Connect the air gun and gauge to the appropriate port on the tire changer.

4.3. Electrical Connection

- The Tire Changer requires a 110V/60Hz power supply.
- The Air Compressor requires a 220V/1Ph power supply.
- Ensure dedicated circuits are used for each unit to prevent overloading. Consult a qualified electrician if unsure.

4.4. Air Line Connection

- Connect the air output from the compressor to the air input of the tire changer using appropriate high-pressure air hoses and fittings (not included).
- Ensure all air line connections are tight and leak-free.

5. OPERATING INSTRUCTIONS

5.1. Air Compressor Operation

1. Before first use, ensure the compressor oil reservoir is filled to the correct level (refer to manufacturer's instructions on the unit).
2. Turn on the air compressor. Allow it to build pressure until it reaches its maximum PSI (145 PSI) and automatically shuts off.
3. Use the regulator to set the desired output air pressure for your tools.
4. The compressor features a 3-Cylinder Cast-Iron design for high efficiency and quiet operation.

5.2. Tire Changer Operation

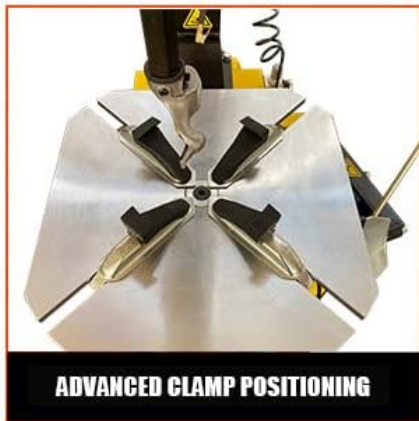


Figure 4: Advanced clamp positioning and foot-pedal controls for efficient tire changing.

1. Position the wheel on the turntable. The advanced clamp positioning system allows clamping at any point within the 10"-18" outer rim clamping range or 12"-21" inner rim clamping range.
2. Use the clamp control pedal to secure the wheel firmly.
3. Utilize the bead breaker control pedal and bead breaker to separate the tire bead from the rim.
4. Operate the mounting/demounting head and swing arm using the appropriate controls to remove or install the tire.
5. The reverse control pedal allows for directional changes of the turntable.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your HPDMC equipment.

- **Air Compressor Tank Drain:** The 60-gallon ASME tank features a manual drain. Regularly drain condensation from the air tank to prevent rust and corrosion. This simplifies routine maintenance.
- **Oil-Free Compressor:** The air compressor is designed to be oil-free, reducing maintenance requirements related to

oil changes.

- **General Cleaning:** Keep both the tire changer and air compressor clean and free of debris.
- **Lubrication:** Periodically lubricate moving parts of the tire changer as indicated in the detailed product diagram (Figure 1).
- **Air Filter:** Inspect and clean or replace air filters on the compressor as needed to maintain optimal air quality and flow.

7. TROUBLESHOOTING

Refer to the following common issues and solutions. For more complex problems, contact HPDMC customer support.

Problem	Possible Cause	Solution
Air Compressor not starting	No power, tripped breaker, low voltage	Check power connection, reset breaker, ensure proper voltage supply.
Low air pressure/slow build-up	Air leaks, clogged air filter, worn pump components	Check all connections for leaks, clean/replace air filter, inspect pump.
Tire Changer not clamping/moving	No air supply, low air pressure, mechanical obstruction	Verify air compressor is on and supplying adequate pressure, check for obstructions.
Excessive noise/vibration	Loose components, worn bearings, improper installation	Inspect for loose parts, ensure stable installation, contact support if persistent.

8. SPECIFICATIONS

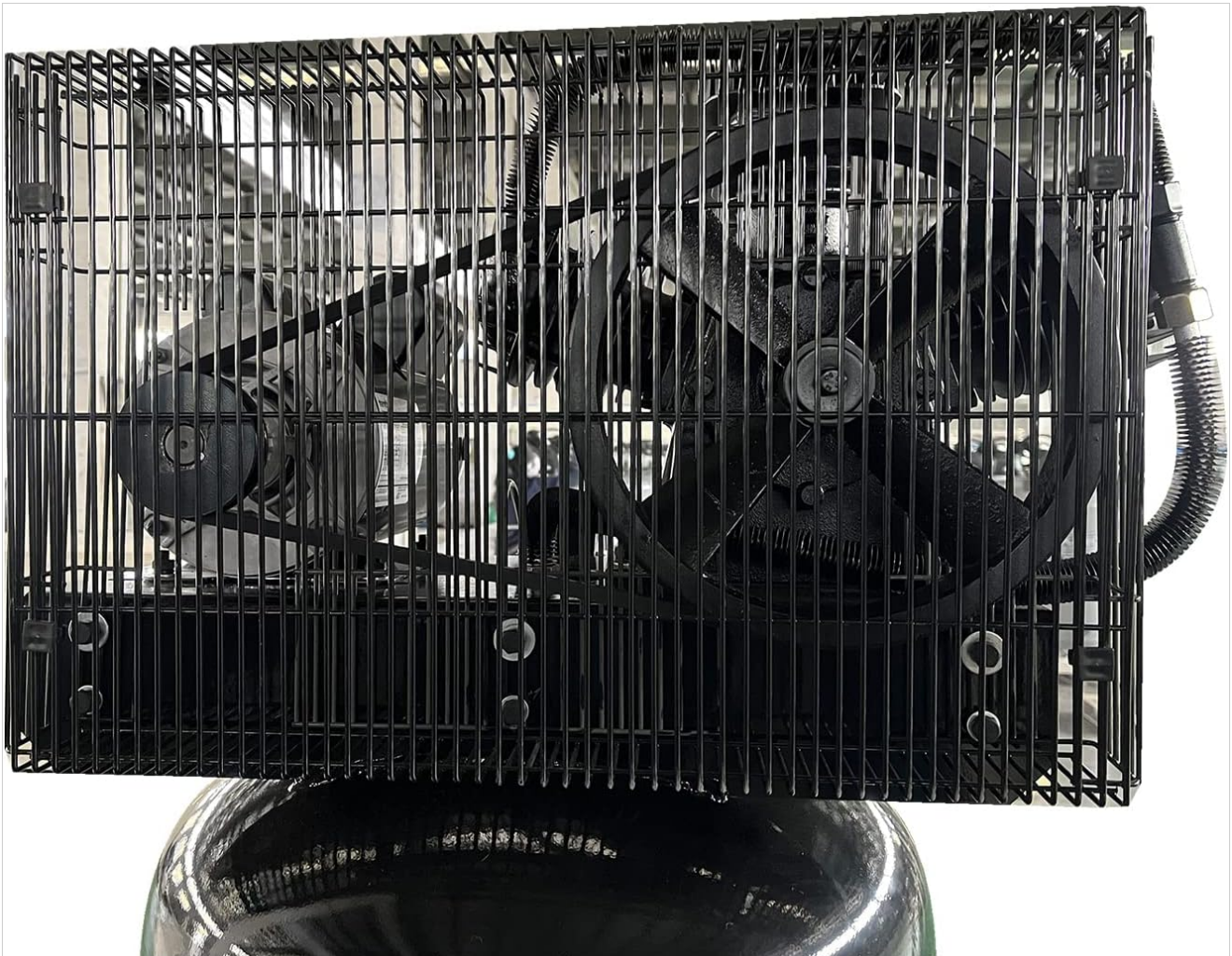


Figure 5: Visual representation of the tire changer specifications.

Tire Changer Specifications	
Power	1.1KW / 1.5HP
Voltage	110V/60HZ
Working Pressure	8-10 Bar
Wheel Clamping System	4 Clamps - Internal
Rim Clamping Outer	10"-18"
Rim Clamping Inner	12"-21"
Max. Tyre Diameter	38"
Max. Tyre Width	11"

Air Compressor Specifications	
Power	5 HP
Voltage	220 V/1Ph
Air Flow (CFM)	16 CFM
Max PSI	145 PSI
Tank Capacity	60 Gallons (ASME Certified)
Stage	1 Stage
Material	Cast Iron (3-Cylinder design)
Special Feature	Oil-free, Silent Operation

9. APPLICATIONS



CAR MAINTENANCE AND BEAUTY SHOPS



AUTOMOBILE 4S STORE WIDELY APPLICATION

TIRE WORKSHOP WIDELY APPLICATION



CAR REPAIR SHOP WIDELY APPLICATION



Figure 6: The HPDMC Tire Changer and Air Compressor are suitable for various professional settings.

This HPDMC equipment is widely used in various professional settings, including:

- Tire repair shops
- Wheel balancing garage shops
- Individual workshops
- Car maintenance and beauty shops
- Automobile 4S stores

10. WARRANTY AND SUPPORT

The HPDMC 21-inch Rim 1.5HP Tire Changer and 5HP Air Compressor with 60-Gallon ASME Tank comes with a **1 Year Full Warranty**. For warranty claims, technical support, or replacement parts, please contact HPDMC customer service. Keep your purchase receipt as proof of purchase.

