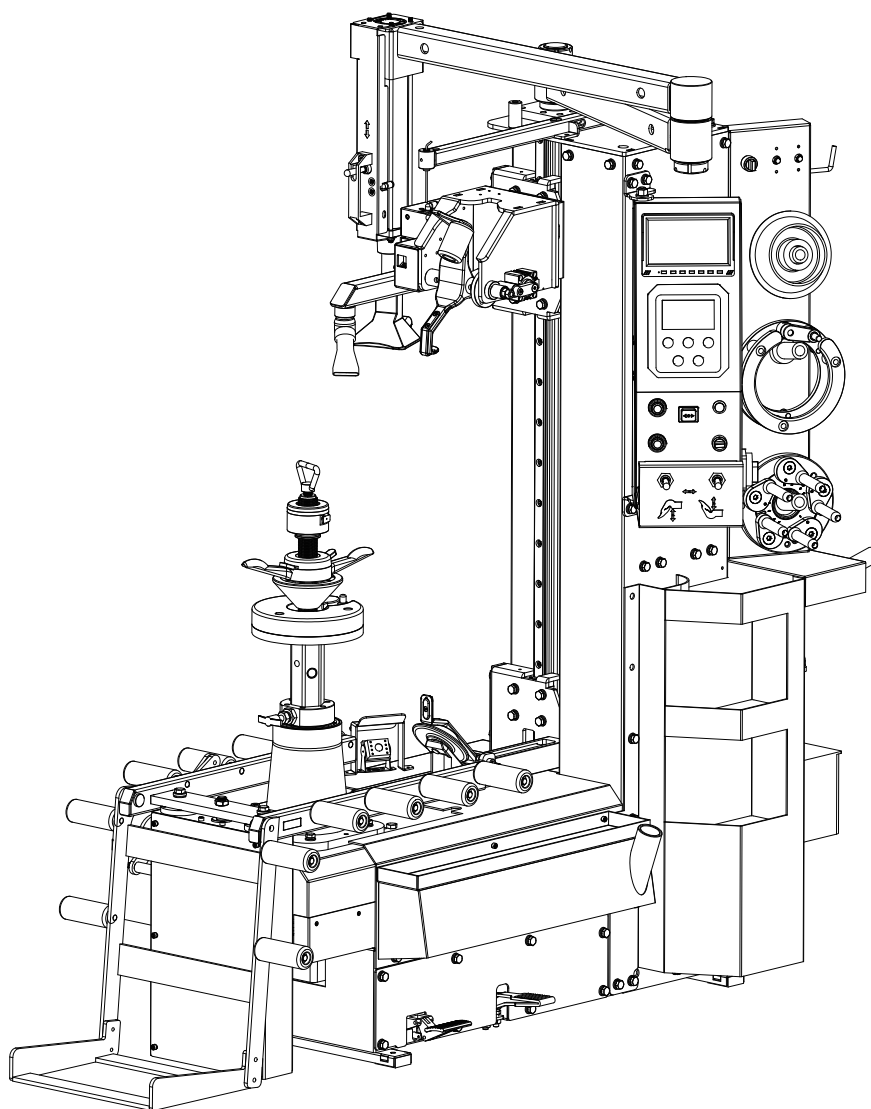


Tire Changer User Manual



Due to constant change on machines, all modification would not be noticed in advance.

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Rated voltage	110V/220V 50Hz/60Hz 1PH
Applicable outer clamping	13"-32"
Max. wheel width	400mm
Max. wheel diameter	1200mm
Crankset rotation speed	0-15 rpm
Working pressure	8-10 bar
Carton size	1560*770*2040mm
Net/Gross weight	533/584KG

Please check the products immediately after unpacking to ensure that they are in good condition.



Chapter I Safety Precautions

1. Incorrect operation may cause personal injury and equipment damage.
2. Please read carefully and understand all the contents of the instructions before use.
3. Please ensure that children and other unauthorized personnel stay away from the work area.
4. Ensure that the equipment is connected to the correct power and air source, and is reliably grounded.
5. Please use this equipment on a flat, level, dry and reliable bearing plane.
6. Avoid accidental startup. Please ensure that the equipment is turned off and the electrical source is disconnected before maintenance.
7. Keep the protection device and safety device in the correct position and keep working normally.
8. Keep the work area clean and well lit. Chaos or dark areas may cause accidents.
9. It is strictly prohibited to overload this product, otherwise the resulting accident liability will not be covered by the insurance.
10. Please keep away from heat and fire source. High temperature may cause damage to this equipment and sealing elements.
11. Avoid dangerous environment. Do not use equipment in humid environment or expose it to rain.
12. It is strictly prohibited for any untrained personnel to use this equipment, and it is not allowed to disassemble or refit this equipment voluntarily.
13. Ensure that the wheels are installed correctly, and correct way is selected according to different wheel hubs to lock and fix them on the equipment.
14. Check carefully before each use. If there is oil leakage, loosen or damaged parts and accessories, they cannot be used.
15. Please let professionals with professional maintenance qualifications maintain the equipment reasonably. If accessory replacement is required, please use original accessory.
16. Safety shoes, safety goggles and working gloves conforming to relevant national safety regulations for safety protection must be worn during operation.
17. It is strictly prohibited to use the equipment after drinking, mental fatigue, inattention, drowsiness and any unconsciousness caused by drugs.



Warning:

The notices, warnings, instructions and other information contained in the instructions cannot cover all possible situations. Operators must understand that daily prudent operation and professional knowledge are indispensable factors in operating this product.

1.1 Warning labels

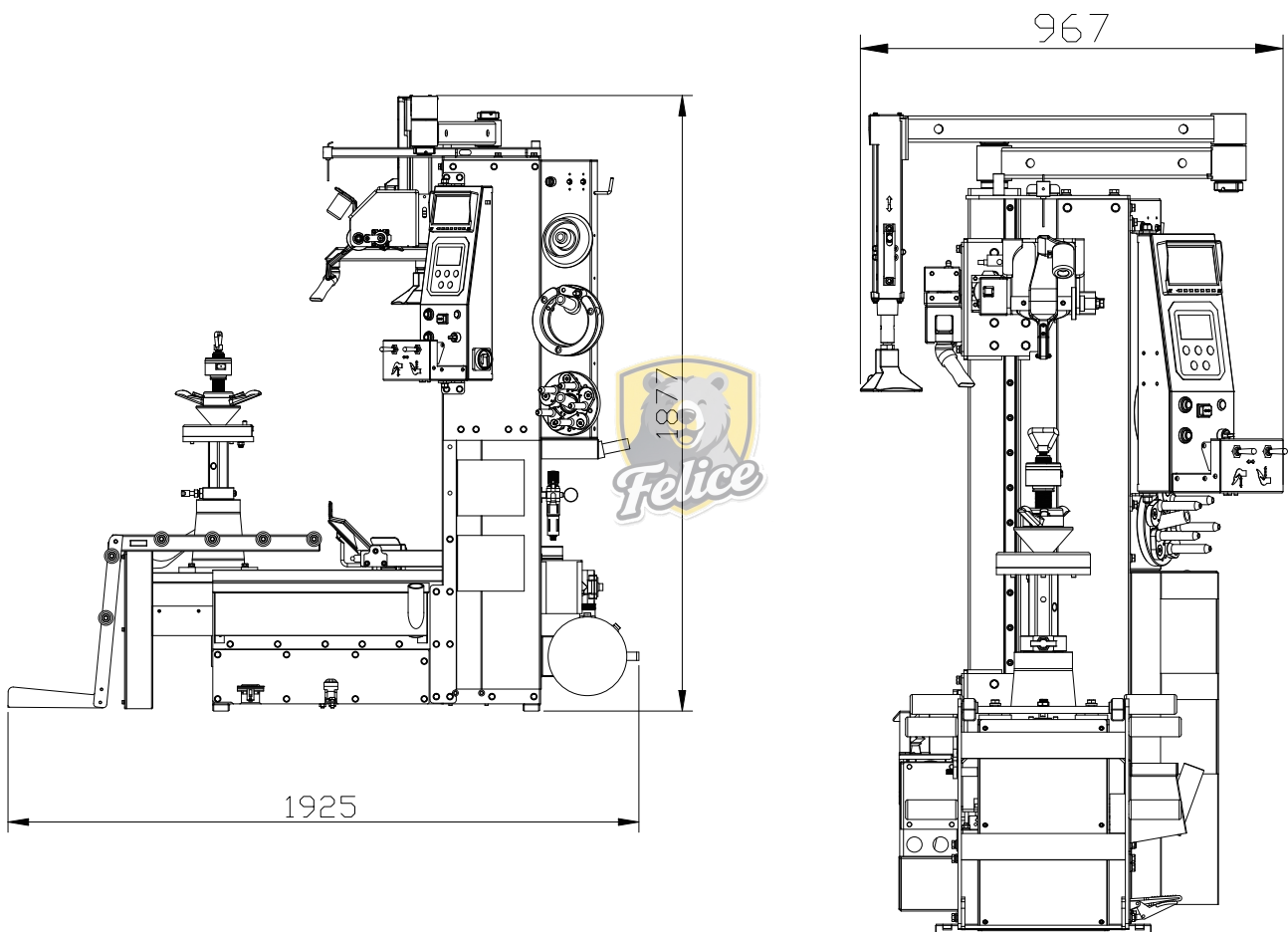
CAUTION	WARNING	WARNING
Keep hands away from tires during operation.	Please read the instructions carefully before use.	Wear protective equipment during operation.

Chapter II Equipment Dimensions and Accessories

The installation of tire changer must be completed by professionals. Safe and effective use depends on correct installation. If you have any questions, please contact the authorized dealer.

2.1 Equipment size and use space

- The tire changer must be placed on a firm flat floor and fixed with bolts.
- The location where the tire changer is to be installed must be provided with power and air source for connection.
- In suitable placement location for tire changer, sufficient operation space must be reserved around the tire changer.
- Ensure that there is enough space above and behind the selected position for the auxiliary arm or reversing arm to work normally.
- Reserve at least 500 mm operating space on the right and front of the tire changer for tire mounting and tire pressing.

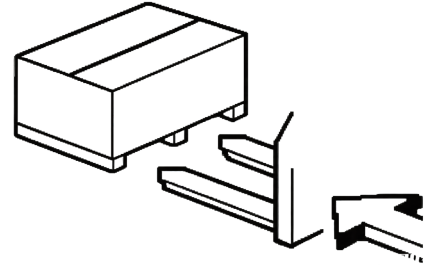


2.2 Safety rules

- a. This equipment shall be operated by professionals or trained personnel.
- b. The company will not be responsible for unauthorized movement of equipment (especially for electrical parts).
- c. Any treatment for electrical parts can only be carried out by professionals.

2.3 Transportation/unpacking

- a. Forklift handling is adopted, and moving position is as shown in the right figure.
- b. Unpack and check whether the equipment is damaged.
- c. Keep packing materials away from children to avoid danger.



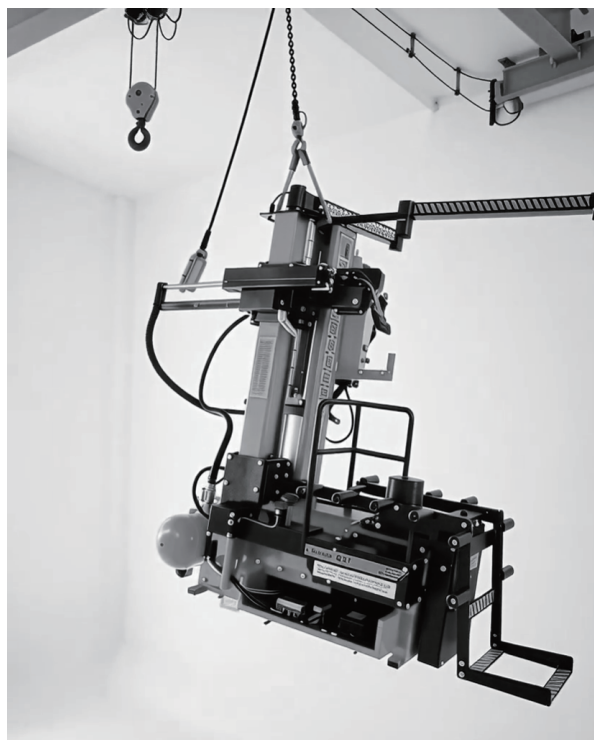
Note

The surface of the equipment is coated with a layer of special anti-rust oil, which is easy to be coated with dust and shall be wiped off as much as possible when necessary.



2.4 Unloading

- Pass the crane's special lifting slings through both sides at the top of the machine, then use the crane to lift the machine and remove the wooden pallet or dolly.
- Caution: Do not stand under the machine while it is being lifted. Please keep a safe distance to avoid accidents.



2.5 Power source connection

Before energizing, check whether the network voltage is consistent with the voltage value indicated on the equipment label.

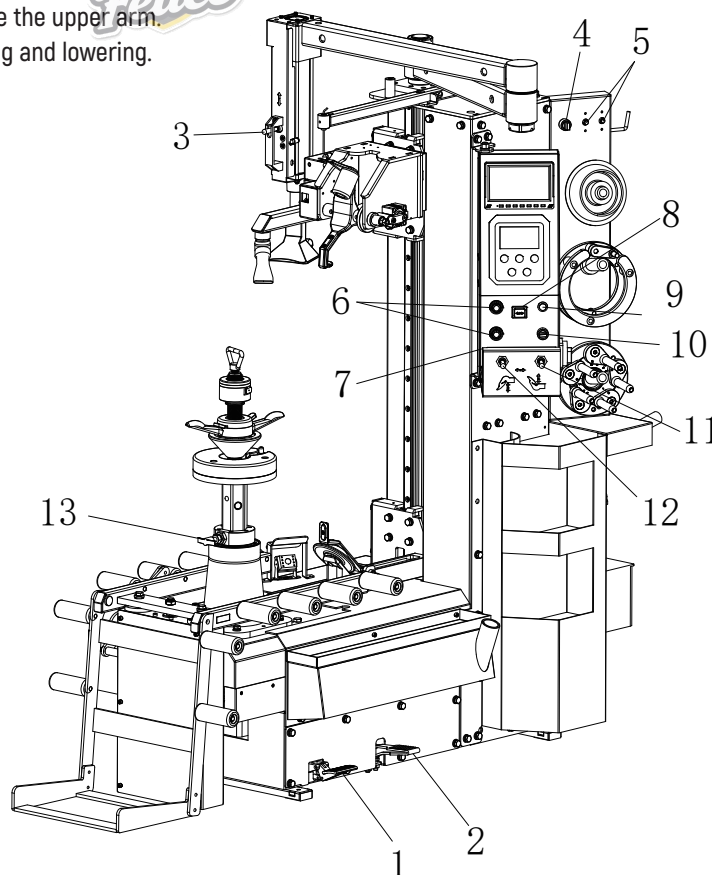
Very important: The equipment is connected with the electrical system, which shall be equipped with circuit fuse, good grounding shall conform to the national standards, and leakage protection devices shall be provided for the equipment when necessary to ensure safe operation of the equipment.

2.6 Air source connection

- Step on the clamping pedal to ensure that the crankset claw will not suddenly open.
- Connect the air source to the oil-water separator with a quick connector. And adjust the pressure gauge to display air pressure.
- Connect the inflation gauge to the air source with a pipeline, and press the handle to confirm that the inflation function is normal.

2.7 Complete machine test

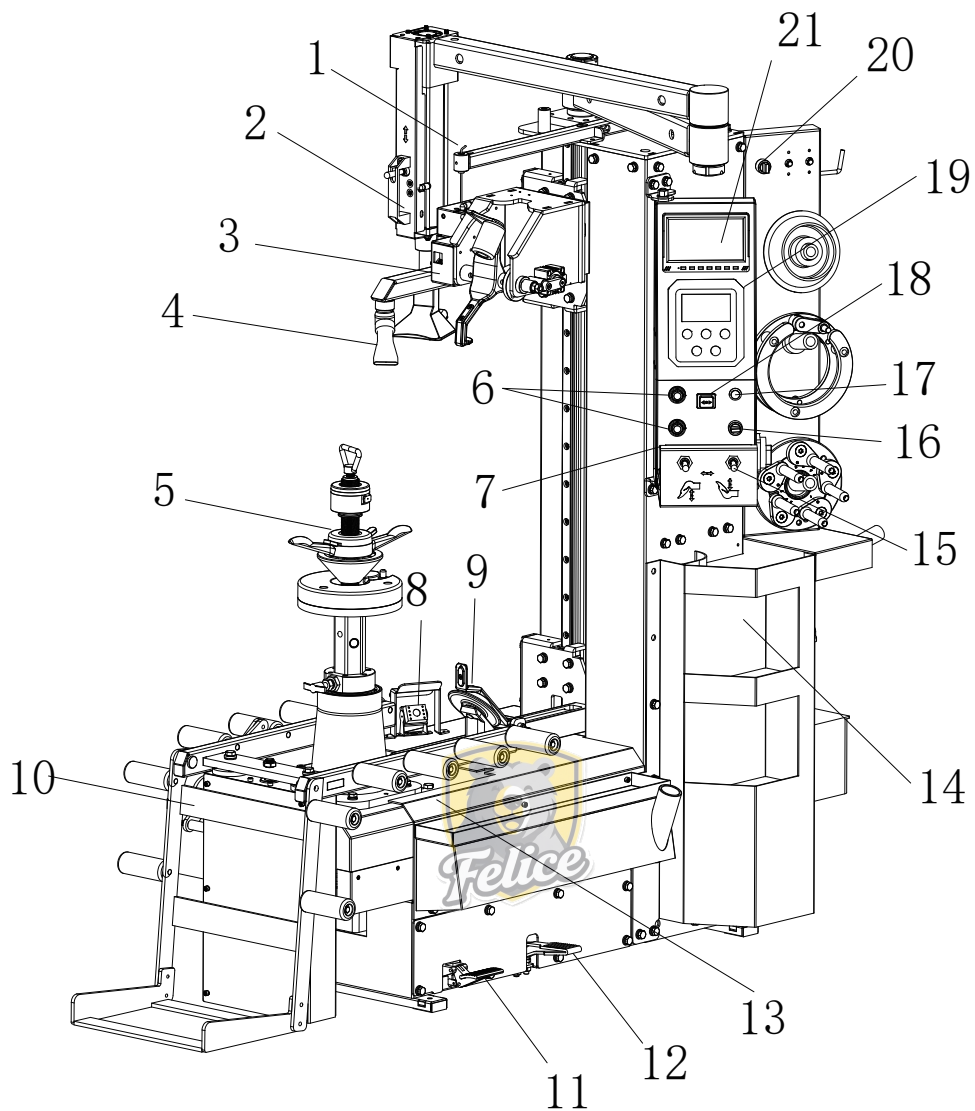
- Press pedal 1 to raise the tire support; release the pedal to allow the support to return to its original position.
- Press pedal 2 to rotate the spindle motor clockwise; the deeper you press, the faster the speed.
- Lift pedal 2 to rotate the spindle motor counterclockwise; the higher you lift it, the faster the speed.
- Press switch 3 to lower the tire clamping head; release it to raise the tire clamping head.
- Turn switch 4 counterclockwise to extend the rapid inflation/deflation nozzle.
- Turn switch 4 clockwise to retract the rapid inflation/deflation nozzle.
- Press both buttons (5) simultaneously to perform rapid inflation.
- Press switch 6 to spray tire lubricant up and down.
- Press handle 7 to move the spindle toward the column; release to return to the original position.
- Press switch 8 to move the spindle forward and backward in the direction of the arrows.
- Tap switch 9 to rotate the multi-function mounting head.
- Turn switch 10 to raise or lower the lower tire hook.
- Press down or push up switch 11 to lower or raise the lower arm.
- Press down or push up switch 12 to lower or raise the upper arm.
- Pull handle 13 to toggle the spindle between rising and lowering.



2.8 Standard accessories

	Lead Screw / Nut / Tapered Block 1 pc.
	Nut / Tapered Block(Spare) 1 pc.
	Universal Gripper 1 pc.
	Tire Clamp 1 pc.
	Larger Cone Block 1 pc.
	Riser Plate 1 pc.
	Hex Wrench 2 pc.
	Pressure Plate 2 pc.
	Grease / Brush / Bracket 1 pc.
	Lubricant 1 pc.
	Plastic Gasket 10 pc.
	Tape Measure 1 pc.
	Plastic pry bar / Metal pry bar 1 pc.
	Manual 1 pc.

2.9 Product drawings



- | | |
|--|--|
| 1. Laser Positioning | 11. Tire Mounting Stand Foot Pedal |
| 2. Assist Arm | 12. Spindle Rotation Foot Pedal |
| 3. Multifunctional Mounting/Dismounting Head | 13. Movable Machine Base |
| 4. Inflator Nozzle | 14. Tool Cabinet |
| 5. Center Workbench | 15. Upper/Lower Head Assembly/Disassembly Button |
| 6. Up/Down Spray Lubricant Buttons | 16. Lower Head Function Switch Button |
| 7. Front Cutting Handle | 17. Upper Head Function Switch Button |
| 8. Camera | 18. Workbench Forward/Backward Movement Button |
| 9. Multifunctional Mounting/Dismounting Head (Lower) | 19. Smart Air Compressor |
| 10. Tire Flip Stand | 20. Air Nozzle Extension/Reset Button |
| | 21. Display Screen |

Chapter III Operation Instruction

- Remove the balance on the outer edge of the tire.
- Adjustable to tire width.
- Height of the center operation disk.

(Under normal circumstances, the operating disc is adjusted to the highest point for formal tires, and the operating disc is lowered to the lowest place only when the anti-mounting wide tires are removed and installed)

3.1 Tire dismounting

- Place the tire on the reverse bracket, pull the tire over the table disc, and then press the pedal control board to turn the table disc. The moving block pin is installed in any screw hole of the rim, take out the center positioning screw, put on the cone block, and insert it through the center hole of the rim. In the round hole of the table, turn the screw clockwise, and then use the quick opening nut to lock the rim. (Fig. 1)



Figure 1

- Press the forward and backward movement buttons on the control panel to position the wheel rim over the infrared laser dot. (Figs. 2 and 3)



Figure 2



Figure 3

- Press the button to switch the tire changer to tire-removal mode, then press down on the tire changer button and move it to the edge of the rim. (Figs. 4 and 5)



Figure 4



Figure 5

- Press the tire presser plate down to the 10 mm mark on the tire, while simultaneously operating the presser plate control valve to move the presser plate forward.
- Press the lubricant button; the foot-operated motor will rotate the tire, spraying lubricant to moisten the tire and rim. (Fig. 6)

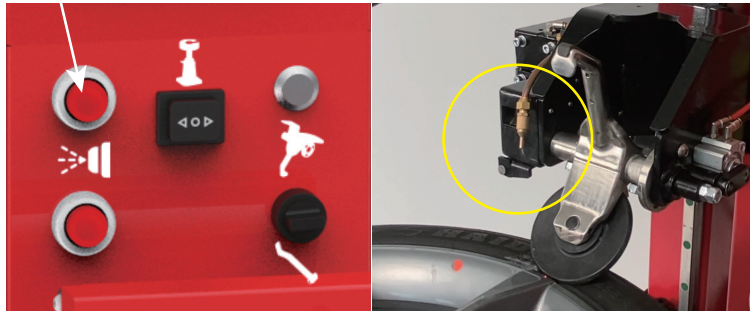


Figure 6

- Press the foot pedal to activate the motor, and while rotating the tire, press down on the tire plate. (Fig. 7)
- Cut the tire plate before pressing down; while rotating the tire, spray a small amount of lubricant to loosen the tire. (Fig. 8)

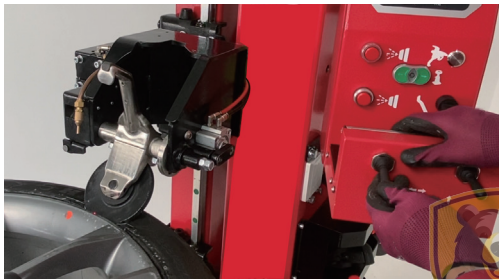


Figure 7

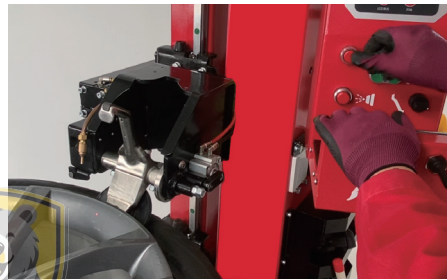


Figure 8

- Apply lubricant to the lower blade arm from above, then rotate the tire to loosen the lower bead. (This can be done in real time via the camera screen.) (Fig. 9)



Figure 9

- Press the button to switch the mounting/dismounting head to tire-removal mode, then apply lubricant to the mounting hook.
- Press down on the mounting/dismounting head to insert the mounting hook between the rim and the tire. (Fig. 10)

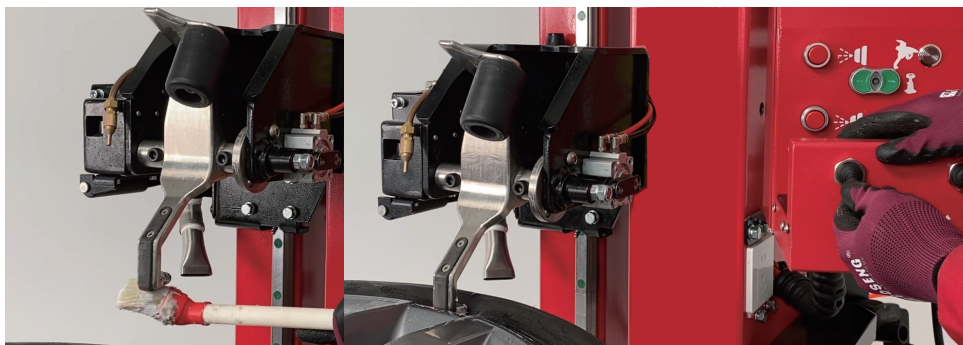


Figure 10

- Move the front cutter so that the rim is close to the tire-removal hook, allowing the hook to grip the tire, then raise the mounting head to lift the upper bead. (Fig. 11)



- At the same time, lift the lower blade slightly to gently lift the lower bead. To lift the upper bead, make a slight forward cut to release the tension. (Fig. 12)
- Press the foot pedal to activate the motor and rotate the tire. (Fig. 13)



Figure 12



Figure 13

- Raise the upper tire lip, and lift the lower arm while cutting forward. (Fig. 14)
- Slightly release the pressure on the upper mounting head, press the motor switch pedal with your foot, and rotate the tire.



Figure 14

3.2 Tire installation

Before installing the tire, apply grease to both sides of the tire and check that the tire and rim size are the same.

- Secure the rim on the operating disc.
- Install the tires in place. If the tire is blocked, it should be stopped immediately, and the turntable should be turned counterclockwise to remove the obstacle until the tire is smoothly loaded into the rim.
- Press the button to switch the function of the tire changer head. (Fig. 15)
- Place the lower tire bead on the tire changer head, press the foot pedal to activate the motor, and rotate the tire onto the rim. (Fig. 16)



Figure 15



Figure 16

- Press the button to switch the mounting/dismounting head to tire mounting mode, and apply lubricant to the mounting head.

Note: Keep the inflation valve away from the tire-removal head. (Fig. 17)



Figure 17

- Lower the mounting head until the rim is level with the horizontal line. (Fig. 18)
- Position the tire-pressing block on the auxiliary arm at the 3 o'clock position on the tire, 10 centimeters away from the valve stem. (Fig. 19)
- Press the foot pedal to activate the motor and rotate the tire to complete the installation. (Fig. 20)



Figure 18



Figure 19



Figure 20

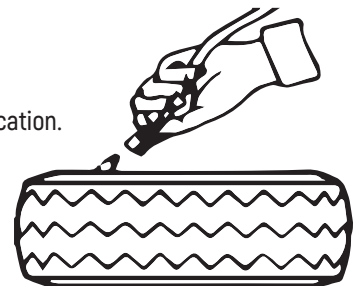
- Raise and extend the support arm, then raise the mounting head. Press the foot pedal to activate the motor, rotate the tire valve stem to the front, and set the air pressure on the automatic inflator. (Fig. 21)
- Begin automatic inflation; the tire is now installed.



Figure 21

3.3 Air Inflation

1. Be extremely careful when inflating tires, and strictly follow the following instructions. Because the tire ripper is not designed and manufactured to protect the people around from sudden tire burst.
2. The tire burst may cause serious injury or even death of the operator. Carefully check that the rim and tire are of the same size. Before air inflation, check that the tires are free from defects or wear. Check the pressure after each air injection. In any case, do not exceed the pressure value recommended by the manufacturer, and keep your body and hands away from the tire as far as possible.
3. The air inflation indicator used to inflate tires shall be under the standard version, and our tire changer is equipped with an air inflation indicator. The inflation procedures are as follows:
 - ① Connect the air inflation indicator with the tire air valve.
 - ② Finally, check the size coordination between the tire and the rim.
 - ③ Check whether the tire opening is fully lubricated, and if necessary, carry out further lubrication.
 - ④ Set the pressure to be inflated ON the inflator and press ON to start inflating.
 - ⑤ Inflation reaches the set pressure value, inflation is completed, prompt the END to remove the inflation hose.



3.4 Risk of explosion!

1. Do not exceed 3.5 bar (51 psi) when inflating tires; before inflation, the tire will be dismantled from the crankset and placed in a special protective cage for inflation. Never exceed the inflation pressure recommended by the manufacturer. Hands and body shall be located on the rear side of the tire being inflated. Only specially trained and authorized personnel are allowed to carry out inflation operation, and other people are not allowed to operate or stay near the tire changer.
2. In this process, the noise can reach 85 dB. Noise protection is recommended.

Chapter IV Storage

When the equipment needs to be stored for a long time, please disconnect the power and air source. Lubricate all parts to be lubricated: sliding block, sliding block slot on crankset and auxiliary arm mounting position. Drain off all oil/liquid storage. Cover the equipment with a plastic housing to prevent dust.

Chapter V Scrapping

When the equipment life is over and it cannot be used again, please handle it properly according to relevant local laws and regulations.

Chapter VI Daily Maintenance

- Cut off the power and air supply before performing maintenance.
- Check the oil level of the oil cup of the oil mist, if you need to refuel, first cut off the power and air source, unscrew the oil cup with your hand, and fill it with 32# hydraulic oil to 2/3 of the oil cup.



Pull out the cover, rotate the adjustable pressure. The pressure setting range is 8-10 bar.



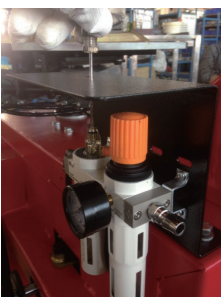
Press down the cover to lock the pressure.



Regularly check the water level of the steam-water separator. Do not exceed 50% height of the separator. If necessary, turn the locking button to drain water manually.



Check the lubricating oil level every day, and open the oil cap to add oil when necessary. Attention: It is forbidden to use lubricating oil exposed to air for a long time.



Check the lubrication conditions every day to ensure that the lubricating oil drips into the oil atomizer when stepping on the pedal. If necessary, use a screwdriver to adjust the adjusting screw of the oil atomizer.

- Clean the condensate in the oil cup and oil-water separator regularly.
- Clean the operating panel, locking rod and quick nut regularly, and fill the appropriate amount of lubrication oil.
- Regularly check and tighten all bolts connecting parts.
- Keep the hexagonal rod dry and clean (clean with diesel) and drip lubricating oil in moderation.
- Check the tension of the drive belt, and adjust the adjustment rod appropriately when it needs to be adjusted to achieve the role of tensioning the drive belt.
- Keep the machine and work area clean to avoid dust entering the moving parts.
- Where the bonding surface with relative displacement and the bonding surface with relative friction should be lubricated with lithium-based grease oil every week.
- Clean the silencer on the control valve and fast valve regularly to avoid affecting the normal operation of the cylinder, and unscrew the silencer to clean with water or blow the dirt with compressed air.

Maintenance and care of machine out of service

- If the machine will not be used for a long time, the power and air supply should be cut off, and the residual gas inside the machine should be evacuated. The surface of the machine should be wiped clean. Except for the sprayed surface, the rest should be coated with oil to prevent rust and covered to avoid moisture and dust. When the machine is put back into use, check whether all functions are normal as described above.

Error/Reason/Troubleshooting

- First, check whether the power supply and air source meet the conditions of use of the machine!

The turntable only rotates in one direction

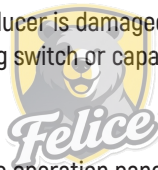
- Reason: The transfer switch is damaged.
- Solution: Replace the transfer switch.

The turntable does not rotate

- Reason: The belt or the universal steering head or the reducer is damaged. There is a problem with the motor capacitor or motor.
- Solution: Replace the damaged belt or reducer or steering switch or capacitor or motor, and check whether the power plug and socket are loose.

The operation panel cannot lock the rim correctly

- Reason: The locking screw does not catch the pin, and the operation panel bayonet does not insert into the wheel hub screw hole or quick nut snap.
- Solution: Follow the correct locking procedure or replace the quick nut.



Air leakage in pneumatic parts

- Reason: The sealing ring is damaged or the parts are damaged.
- Solution: Find the corresponding sealing ring or replace the parts.

Warranty instruction

The whole machine has 1 year warranty, and the warranty service is only valid under normal use. All man-made damage is not covered by the free warranty, and repairs will be charged as usual.

For example:

1. The user does not use it in accordance with the instructions.
2. Assembles accessories not provided by the company.
3. Equipment damage caused by user transportation and other accidents.
4. Modifications not approved by the company.
5. Damage caused by natural disasters.
6. Accessories exceeding warranty period needs to be renewed, etc.