

USER'S GUIDE

Tyre Changer

*Quality
Service*

code: T140410

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OUTLINE

1 GENERAL PROVISION

- This instruction is one integrated part of the products. You must carefully read the warnings and instructions described in this manual before use the product. All these warnings and instructions will provide you with the important information regarding safe usage and maintenance.
- Properly keep this manual for the reference in the future.
- Careful reading this instruction manual can lead the operator to use the machine correctly and in this case the dealer will provide long-term and effective after-sales services. The producer and dealers will not be responsible for the problems caused by any incorrect operation.

- **Danger**

The process can directly cause the serious damage or death.

- **Warning**

The unsafely process can cause the serious damage or death.

- **Note**

The unsafely process can cause the serious damage or death.

Before connect the power supply and air supply, you should carefully read the manual. Keep the operation notes and warning notes on the manual and machine. The related information data and the documents and data in the sales process should be carefully kept. Different machine serial numbers will be equipped with different instruction manual. The operators should pay attention to the effectiveness of the manual.



Danger

You must use the machine in accordance with the requirements specified in the manual. The producer and dealers will not be responsible for the problems caused by any incorrect operation.



Warning

The machine must be operated by the professional personnel. The operator must understand the manual and have taken the professional training. If the nonprofessional personnel operate the machine, it will cause the dangerous of personal injuries and also lead to the damage to the tire and rim.



Notes

The pictures in the manual all comes from the original design structure of the machine. The structure showed in the pictures may be different from the actual structure of the machine.

The machine is made for the purpose to give guidance to the personnel with some basis of mechanical and electrical skills. Therefore, the basic processes such as how to fix the bolts may be omitted. Do not try to letting the personnel without experience operate the machine. If you have any requirement related to this, please ask the dealer to provide the help.

2. TECHNICAL PARAMETER

● OVERALL DIMENSION

- Length-----A = 1150mm
- Breadth-----B = 950mm
- Min. Height-----H = 1000m

● Weight

- N.W.-----210kg
- G.W.-----260kg

● Motor

- Power -----1.1kw/0.75kw
- Phase-----Single phase/Three phase
- Voltage-----220V/380V
- Frequency -----50Hz/60Hz
- Bead breaking pressure-----1800KG

This motor also applies to other machine with single phase.

● Noise

The noise emission at the workstation-----< 70 dB

- Air supply pressure-----8-10 bar

● Range of the wheel

- This machine is suitable for following range of wheels:

Car

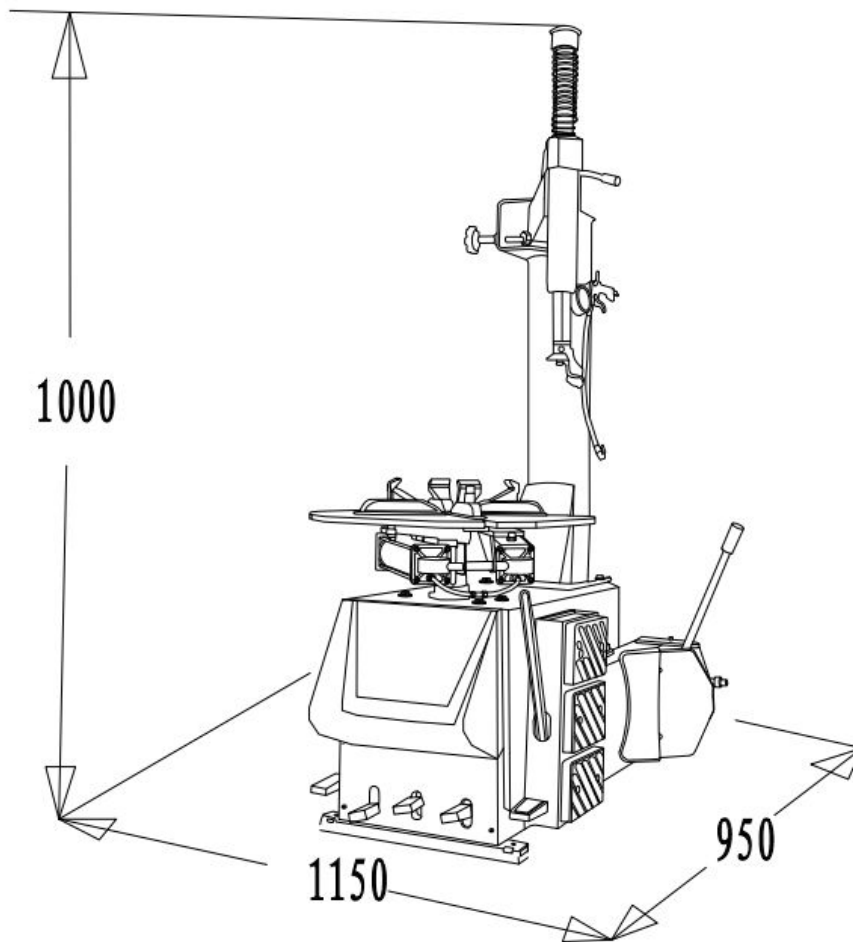
- Wheel width-----4"~12"
- Rim diameter(small size)-----11"~18"
- Rim diameter(medium size)-----11"~22"
- Rim diameter(large size)-----10"~28"
- Max wheel diameter(small size)-----980mm
- Max wheel diameter(large size)-----1100mm

● Turntable type

- Clamped by-----clamping jaw
- Fixed by-----clamping jaw
- Clamp style-----pneumatic
- Driven by-----motor
- Torque -----1100 Nm
- Number of revolution -----7 /14rpm

● Bead breaking system

- Bead breaking tool -----blade
- Fix style-----manual
- Plug in style-----pneumatic
- Max. work dimension -----340mm
- Press disk pressure-----2500KG



3.Scopes

This machine is the tire changer driven by air and electrical. It can handle car tire, the weight and dimension as per the chapter of technical parameter.

- **The tire applicable:**

- Tire standard and common
- Reverse tire
- Tire without center hole,
- Run flat tire

⚠Warning: Each type of tire has its special operation method

Note: When demount/ mount the tire of the old car, exceeding 30years/ modified car tires/ tire with the rim modified, it may cause the accident.

4 Machine diagram



Warning

Understand all the information related to the machine

Understand how to prevent the appearance of the accident

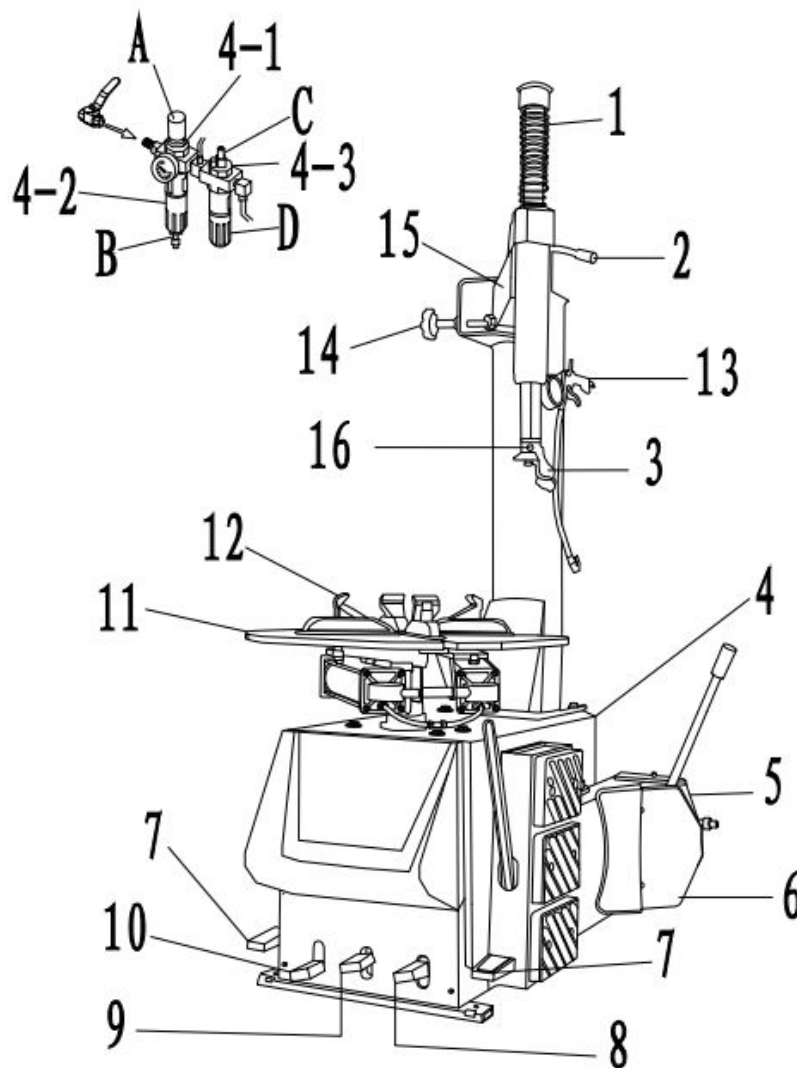
Understand how to use the tire changer

Understand all the function

Understand the entire control key

Understand each operation of the control part

All these understanding can prevent the safety accident and guarantee the correct running of the tire changer. The installation of the machine must be correct and operate correctly and also execute the maintenance periodically.



Safety Requirements

1. Use

This machine is used to demount/ mount the car tire. The dimension of the rim is 9"-24". The max diameter of the wheel can reach 1050mm.


Any other usage will be incorrect.

Special statement: The manufacturer will not bear any responsibility to any damage arising from the operation not specified in the manual.

2. General safety precautions

- This machine can only be operated by the authorized personnel who have received special training.
- The manufacturer will not bear any responsibility to any direct or indirect damage arising from the modification to the machine without the permission of the manufacturer.
- When the machine is delivered out of the factory, it is equipped with the complete instruction manual and warning decal. If they are damaged or ruined for some reasons, please ask the manufacturer to change.
- The machine should be kept away from the inflammable and explosive materials. It should also be kept from sun and glare. The place to place the machine should be good ventilation.
- Make sure to use the original parts and accessories.
- The machine should be installed by the authorized personnel as per the manual.
- During operation, you should pay attention whether there is any danger. Once you find the danger, stop the machine at once and contact the dealers.
- When the machine is running, the unauthorized personnel should be kept away from the machine.
- The operator should wear the protective equipments such as gloves, goggle and overalls to prevent the accidental injury.

 **Warning!** Secure that the grounding of the machine is perfect.

 **Warning!** When operate the machine, the unauthorized personnel should be kept away from the machine.

 **Warning!**

Non-compliance to the operation requirement or the warning requirements related to the danger specified in the manual will cause the injuries to the operators or personnel nearby. Before connect the machine to the power supply, please carefully read the manual and warning notes. The machine must be operated by the profession personnel. The operator must have received special training and understood the requirement in the manual. He or she should also understand related safety requirement and detailed requirement in the process of operation. The operator must not run the machine after drinking.

The operator must pay attention to:

- Understand all the requirements specified in the manual;
- Understand the function of the machine;
- Unauthorized personnel should be kept from the machine;
- Secure the installation of the machine should comply with the related local law and regulation;
- Secure that the operators have received the training and have the skill to operate the machine. And they must be monitored;
- Do not detach the bolts, nuts or the other components from the machine;
- Before cut off the power supply, you must not contact the motor and the live parts on the machine such as power cord;
- Carefully read the manual and learn how to use the machine correctly and safely;
- Keep the manual for the future reference.



Warning

Do not detach the danger decals, safety warnings and operation tips on the machine. If there is any damage, please contact the local dealer in time.

- During the process of use and maintenance, the operator should pay attention to the danger of the high electrical voltage.
- Do not modify the machine or use the non-original parts unauthorized.
- The operators must wear tight overalls, gloves, goggle or safety shoes etc.



Warning

When operation or maintenance, it is forbidden to wear loose clothes, long hair or necklace.

TRANSPORTATION

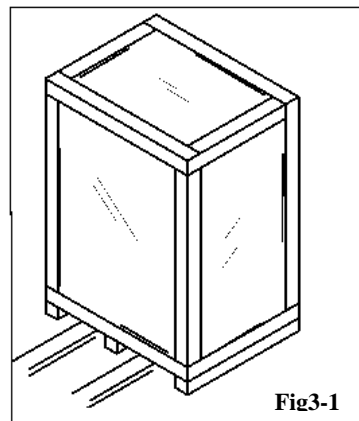
1. Transport and packing

The machine should use the original package and then be transported. The package should comply with the following requirements:

- The package size requirement:

Width	1000mm
Length	1150mm
Height	1700mm

- The gross weight of the machine: machine + package: 420 kg



2. Transport and storage environment requirements

Temperature -25°C-+55°C



Warning

Do not place any other objects on the package.

3. Transport method

As shown in the Figure, detach the top package

Plug the fork of the forklift from bottom of the original package



Note: Keep the original package for the future transporting

Unpacking

1. Unpacking

- When unpacking, the operator should wear the proper protective tool such as gloves.
- Carefully check the packing list of the machine to see if there is any mistake related to the quantity of the parts. If there is any mistake, please contact the dealer at once.
- The objects in the carton such as board, nails, screws and plastic bags should be located at the safe place.
- If there is any pollutant or the indecomposable substances, you should treat them as per the regulation specified in the local laws and regulations.



Warning

- During the process of unpacking, assembly and transporting, you should follow the following requirements and handle with care. Or it will damage the machine.
- Detach the upper cover of the carton and make sure whether there is any damage or not during transporting. Find the fix bolt to fix the machine on the pallet and prepare to shift out the machine.

2 Transports

- Hoist up the machine from the pallet. Bind the hoist tape (mod. DR 750 of 3m and DR 735 of 1.5m factor 6:1).
- No matter when to move the machine, you should take above methods.
- You can not move the machine if the machine is not cut off from its air supply and power supply.

Installation

1 Installation


- Installation environment requirement

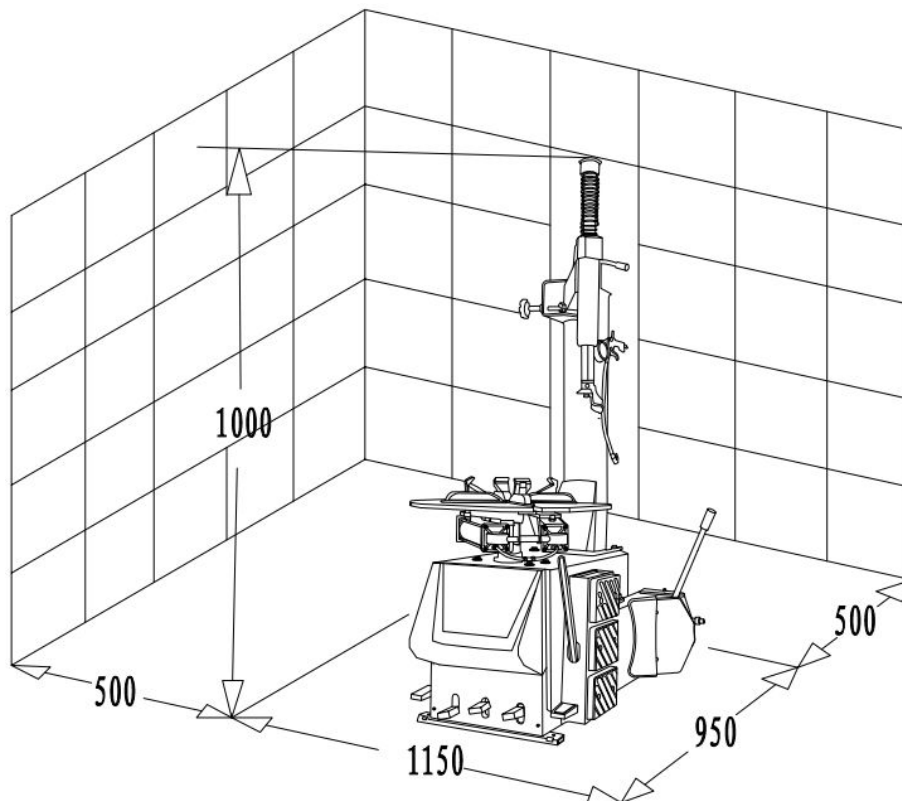
Temperature 4-40°C

Sea level <1000m

Humidity 50% 40°C-90% 20°C

- When you choose the installation position, you should secure the safety of the machine when it runs in the normal work condition.
- This machine must be connect to the mains and compressed air system, hence we suggest you to install the machine near the power source.
- Installation position should at least leave the space in the following figure to secure free movement of each part of the machine.
- If this machine is installed outdoors, you should take measures to prevent rain and sun. General speaking, this machine can not be used outdoors.
- The work are should enjoy enough light to secure the operators can observe each details of the operation.

 Besides the operator, when the machine is running, any other personnel should not in the work area.



2 To fix machine

- Detach the bolts and nuts fixed on the machine chassis. Bind the hoist tape (mod. DR 750 of 3m and DR 735 of 1.5m factor 6:1).

Lift up the machine

- Take out the pallet and position at the preselected location.



Pay attention that the nozzle and air hose on the machine should not be damaged during the process of hoist. Pay more attention when hoist up the machine.



When inflate the tire on the turntable, you must fix the machine on the ground.

- Use the M10 bolt grade 12.9, via the hole at the pallet, to fix the machine on the ground.

3 The connection of the air supply and power supply to the machine

- Connect the machine to the electrical circuit. As per the electrical power specification, the electrical circuit must be equipped with the fuse and perfect grounded earth wire and also a protective switch will be connected.
- Note: If the machine is lack of the plug, the user should prepare a 16A plug adapted to the machine's operation voltage as per the electrical power norm.
- The voltage deviation should be 0.9-1.1 time of rated voltage range, And the frequency deviation should be 0.99-1.01 time of rated frequency range. You should take the necessary protective methods.

There must be professional personnel to be responsible for the connect of the electrical circuit.

- The electrical net in the working area should be reliable grounded.
- When you do not use the machine, please switch off the power supply in time to secure the machine not to be used accidentally.
- If the machine will not be used for a long time and the machine is directly connected to the electrical cabinet not via a plug. The electrical cabinet should be locked. Only the professional personnel can open to secure the machine not to be used accidentally.



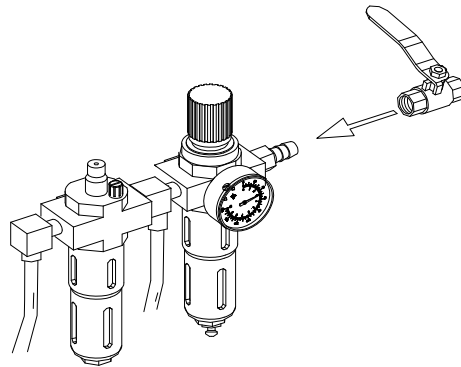
Warning

The machine must be grounded and do not connect the earth wire to the heater, plumbing and telephone cable etc.

- Secure the compressed air supply comply the requirement of the machine. The details of these requirements are specified in chapter "technical parameter". The pressure and flow of the air supply should meet the requirement to use the machine. And the pressure ranges from 8 to 16 bar.
- Use the special air hose to connect with the water separator, air regulator and lubricator at the side of the machine. Please see the figure. Please make sure that the oil has been fully filled reaching the standard oil level. The oil contained in the lubricator should be SAE20 oil, or the air route will not be lubricated and the sealing

kits will be damaged in a short time.

- The user must mount a air supply cut off valve and pressure regulation valve in front of the machine.



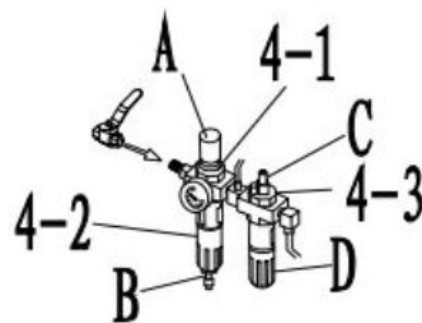
4. Test control system

Pedal control system

- Step down the turntable rotation control pedal 2 or 6, the turntable will rotate clockwise. And rise up the turntable rotation control pedal 2 or 6, the turntable will rotate counterclockwise.
- Step down the clamping jaw close control pedal 3, the jaw clamps closed and Step down the clamping jaw open control pedal 4, the clamping jaw will open.
- Step down the blade control pedal 5, the blade will work and release the blade control pedal 5-3, the blade will back to its original position.

Air treatment assembly

- Pressure reducing valve 4-1: Pull out the knob A at the top end of pressure reducing valve. Clockwise/counter clockwise turning can adjust the feeding pressure of the machine. Press down the knob A after adjustment.
- Water separator 4-2: Clockwise/counter clockwise turning knob B at the lower end of water separator can deflate the water in the water cup.
- Lubricator 4-3: Turning the knob at the top end of the lubricator. Clockwise/counter clockwise turning can adjust the oil feeding speed of the lubricator.



Note:

- The pressure of the machine should be adjusted in the range of 8-9bar.
- Regularly deflate the water in the water separator.
- Move back and forward the bead breaking cylinder and observe the condition of lubricator. Guarantee the oil will be fed before operation each day.

Operation

1. Safety tip

- This machine is only used to mount/demount the car tires.
- The instruction manual must be correct. It is the integrated part of the machine.



Warning

It is prohibited to use this machine to do the other work.

The machine is equipped with the tire inflation system. This function is an independent one. You should pay more attention to this. Refer to the Chapter "inflation".



Warning! You must use the original parts of the manufacturer.



Warning! You should keep your hand far away from the point to be crushed.



Warning

When the accident appears, you should stop the running of the machine at once.

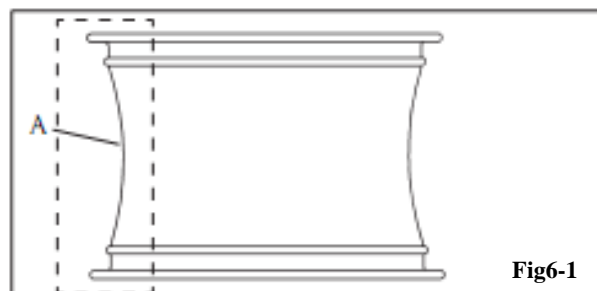
- Plug out the power plug.
- Switch the air supply.

2. Check before operation

- Each time before operate the machine, you should make the bead breaking cylinder run back and forward to observe the lubricator and make sure it starts feeding oil to the air route. After you confirm that the lubricator works normal, you can guarantee each part of the air route system under perfect lubrication.
- Check the air treatment assembly to guarantee the pressure indicated on the pressure gauge of the pressure reducing valve is not less than 8bar.
- Check whether the power supply connection is right or not.

3. Special note

- Some tires needs special process, different from the normal demount/ mount process.
- Some special rims as Fig 6-1, the groove at the middle of the rim is very shallow. Or there is no groove. These rims cannot meet the safety regulation regarding the traffic and transportation. In some countries, these types of rim/Wheel are not allowed in the market.





Danger

Pay special attention when demount/ mount tire, rim or tire may be damaged.

- In the process of inflating the tire, the danger of tire burst may happen.
- The cross-section shaft of some rims is the smooth structure as Fig6-2. The C at rim is very deep. You will find B is higher than A. When you break the bead of this type of tire, you must press the bead which must be lower than B position. When mount the tire, the bead opposite to the tool head must over B point. At this moment, the bead can be led into the groove at the middle of the rim.

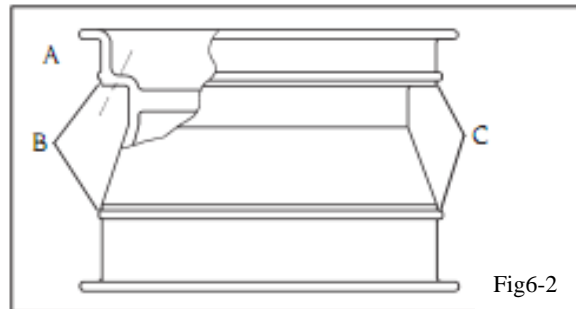


Fig6-2

- Some wheels have the tire pressure inspect system as figure 6-3. Do not damage the tire pressure inspect system.
-

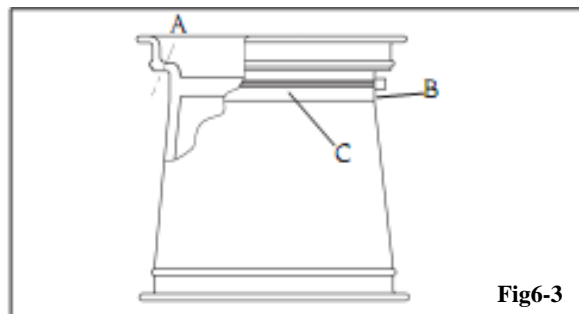
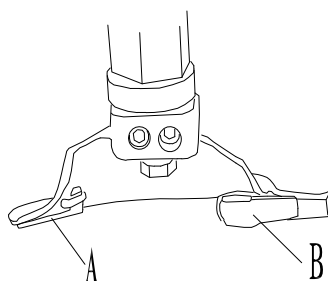


Fig6-3


- To protect the rim, it is required that the plastic cover for the tool head should be once two months. If damaged, these plastic parts should be changed at once.




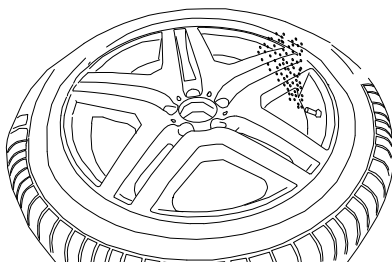
Warning

Bead breaking process is very danger, the operator should undertake in accordance with the instruction described in the manual.

4. Break the bead

 Before any operation, please detach the weight attached on the wheel before and deflate the tire.

 Not using the grease will seriously damage the tire. Please use the special grease. Check whether the tire has been deflated completely. If not, you should deflate at first.



You should be very careful when you break the bead. When the blade moves, its speed is very fast and the strength is very strong. In the area of its moving, any objects will be under the danger of being crushed.

- The clamping jaw on the turntable should be closed completely.

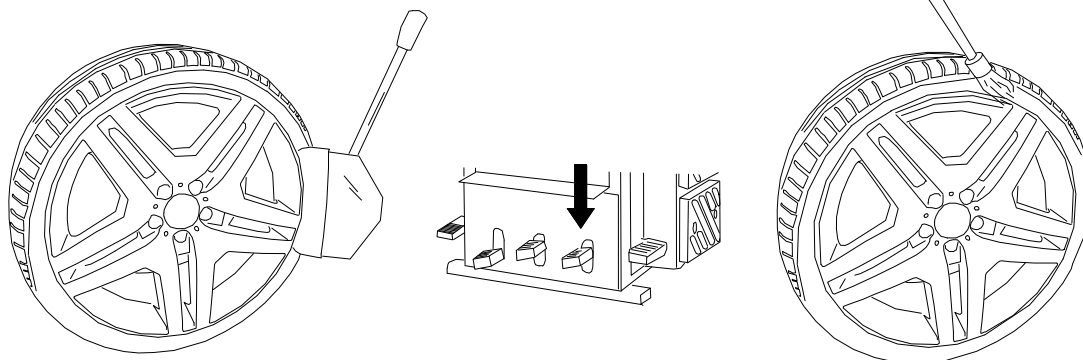


When the clamping jaw is opened, if the operator undertakes bead breaking, this process will cause danger to the operator. In this process, the hand should not touch the pressed surface pressed of the tire.

- Lean the tire against rubber wheel support.
- The surface of the blade will keep about 1cm from the rim and the blade should rightly face the tire. Pay attention to the position of the blade to avoid it from touching the rim after bead breaking.
- Step down blade control pedal 3-3 to make the blade start working, When the bead is broken, release the pedal at once.
- Rotate the tire until the edge of the tire is detached from the rim and repeat at the other side
- Spread some grease on the tire.

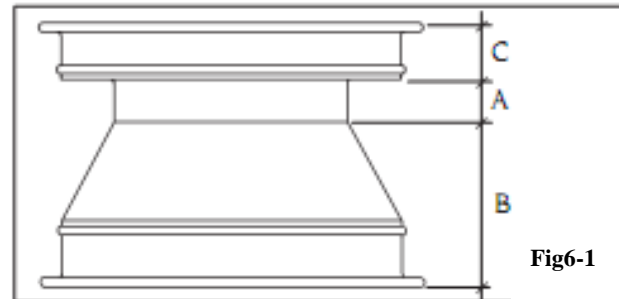


Not using the grease will seriously damage the tire. Please use the special grease.



5. Rim location direction

- How to decide from which side of the wheel to demount tire? When fix the wheel, The side of standard rim will upward as figure, measure three dimension of A, B and C.
- When fix the rim, the smallest size of C must be positioned at the top position.



6. Fix tire

- Slide out the swing arm and clean the turntable.



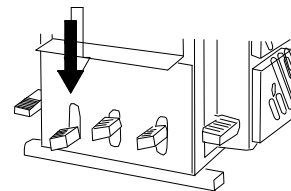
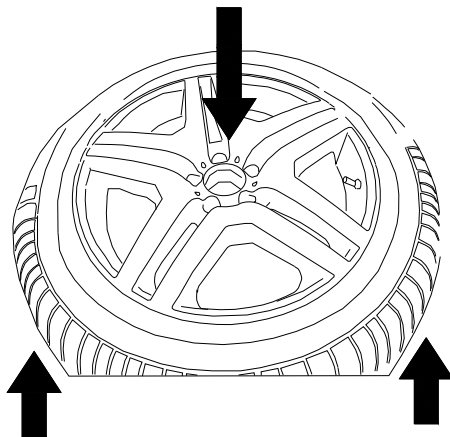
When lock the tire, it is absolutely forbidden to put your hand under the tire. To correctly lock the tire, you should position the tire at the very center of the turntable.

Clamp the rim from outside:

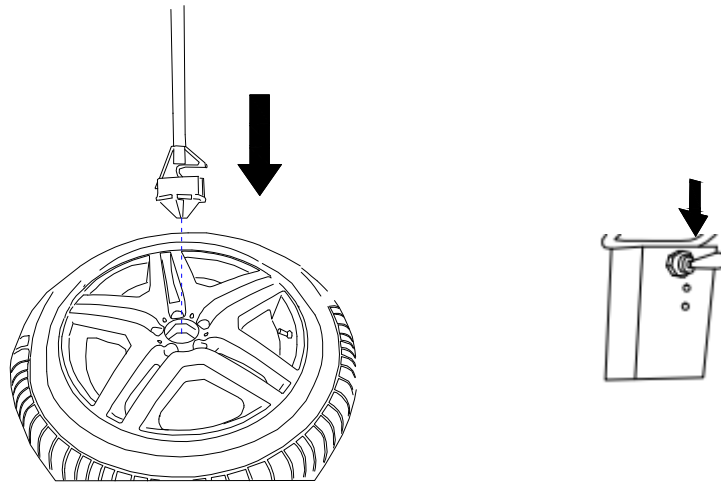
- Through step down the clamping jaw open/ close pedal 4 to control the open position of the clamping jaw.
- Place the tire on the clamping jaw, keep pressing down the rim. Step down the pedal 3 until the rim is locked.



During you position the tire on the turntable, One operates is enough if the weigh is less than 25kg. If the weight is 25kg-50kg, 2 persons will be enough. And you will use the tire lifting device if the weight is more than 50kg.



- For the machines with assist arm, you can use tire presser to press down the rim to help fix the rim, and also it can use for the relative stiff tires.



Clamp the rim from inside:

- Close the clamping jaw on the turntable.
- Place the tire on the turntable. Step down the pedal to open the clamping jaw until the rim is locked.

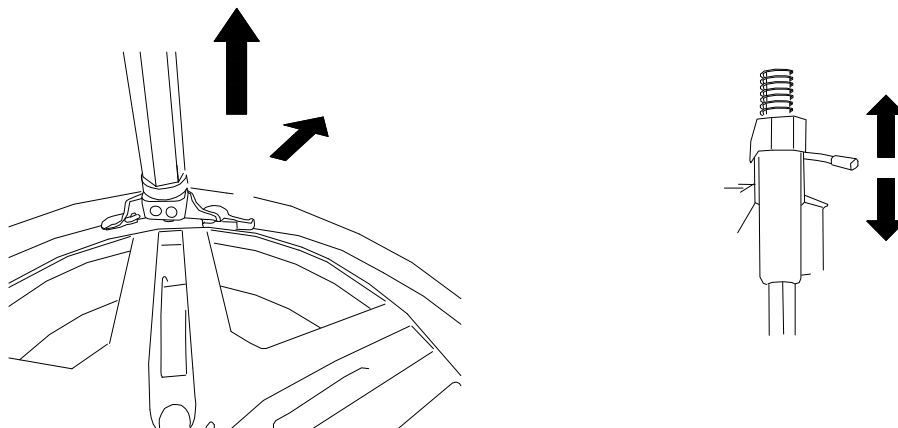


Secure the rim has been firmly locked on the clamping jaw.

7. Demount tire

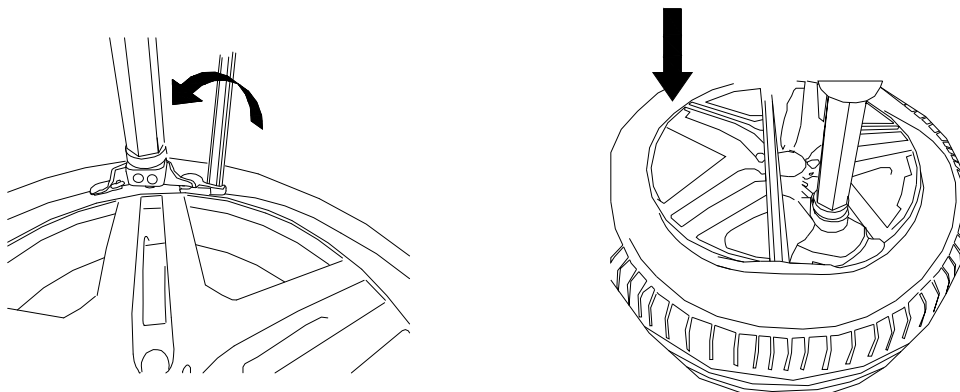
Position the duck head

- Slide aside the swing arm and press the shaft to make duck head nearby rim edge.
- Rotate the knob to lock the shaft.
- Screw the knob and make duck head move out 2-3mm.



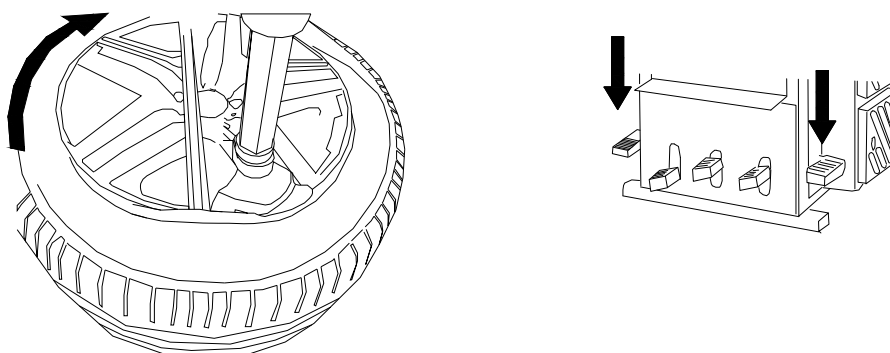
Hook out the upper bead

- Insert the bead breaking level into the upper bead next to the head of tool head.
- Press down the level to lift the upper bead onto the head of tool head.



Demount the upper bead

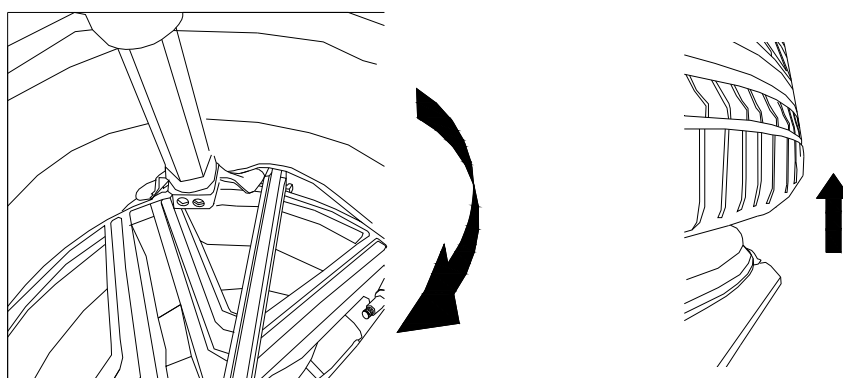
- Step down the pedal 2-6 and rotate the wheel until upper bead is completely detached from the rim.



To avoid the accident, keep your head and body away from the duck head when rotate the turntable.

Demount the lower bead: Use the bead breaking level to demount.

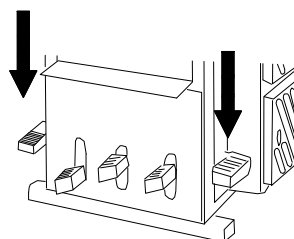
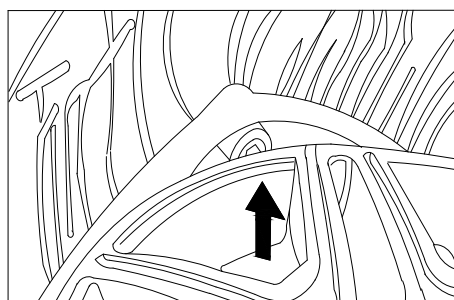
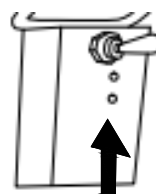
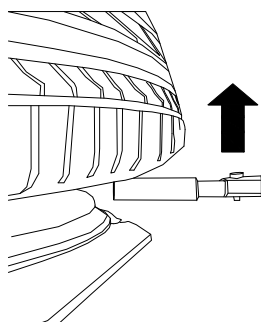
- If there is tube inside the tire, remove it.
- Repeat the same process described above until detach the lower bead.
- Hand up the lower bead.
- Step down the pedal and rotate the wheel until lower bead is completely detached from the rim.



For machines with the assist arm, you can use the tire pressing disk to demount.

Detach the lower bead: Use the lower tire pressing disk to demount

- Use the tire pressing roller to rise up the bead until it is higher than the upper end of the rim.
- Step down the pedal 11-4 to rotate the wheel until the upper bead is completely detached from the rim.



Shift out the tire

- Swing out the horizontal arm and shift out the tire.

8. Mount the tire

Selection of the tire

Before select the tire, you should know the technical feature, technical parameter, characteristic and safe grade of the tire. The related information is marked on the side wall of the tire.



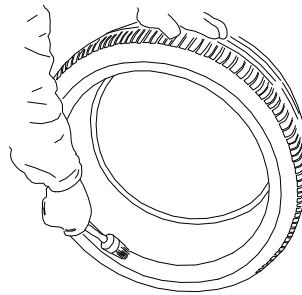
Note: Before mount the tire, please change the core of the nozzle to be the nozzle of tubeless tire.



Note: Confirm whether the related parameter of the tire matches the parameter of the rim or not. And also make sure the rim is not deformed and the center hole not damaged. While you should also secure that the surface of the rim without the phenomenon of rusty and broken and there is not any bur at the nozzle; Confirm the tire is under perfect condition and without any damage.

Prepare the tire

- Lubricate the bead with the special tire grease.
- Place the tire on the rim with the tilt angle of 45 degree.



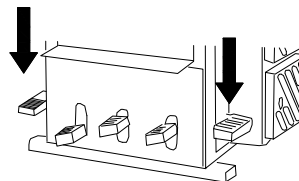
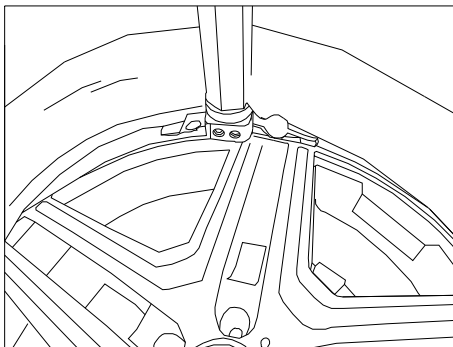
- **Position the tool head**

Swing out the horizontal arm to move the tool head to the work position.

Note: If you do not change the rim, the tool head will automatically back to the correct working position.

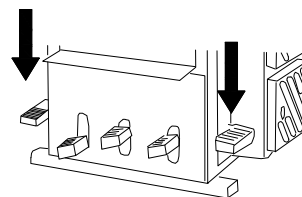
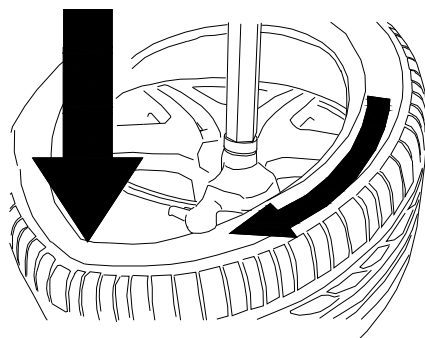
Mount the bottom bead

- Position the bottom bead at the bottom end of the head of the tool head, while at the top end of the tail of the tool head.
- Use your hand to slightly press the tire to lead the tire into the groove of the rim.
- Clockwise rotate the tire to mount bottom bead.

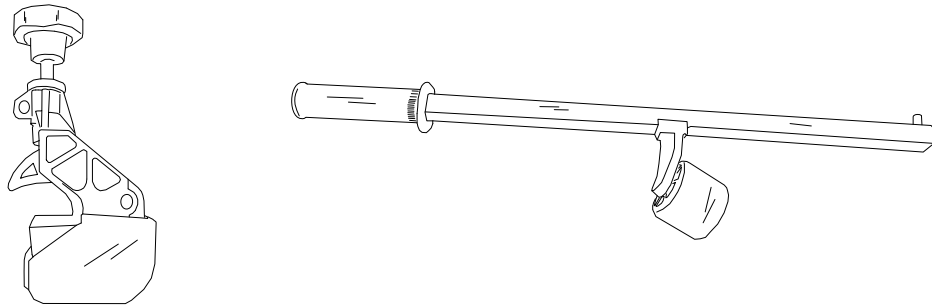


Mount the upper bead

- Position the upper bead at the bottom end of the head of the tool head, while at the top end of the tail of the tool head.
- Use the tire pressing roller to press bead to lead to the tire into the groove of the rim.

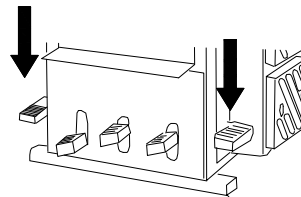
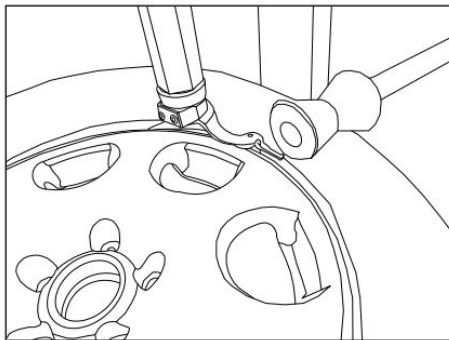


- Use bead clamping kit and presser shaft between the duck head and the presser for assisting to mounting the upper bead especially for big tires.



If the machine with the assist arm:

- Position the upper bead at the bottom end of the head of the tool head, while at the top end of the tail of the tool head.
- Use the tire pressing roller to press bead to lead to the tire into the groove of the rim.
- Rotate the turntable clockwise to mount the upper bead.



The bead cannot slide out of the head of the tool head.



Note: When you mount/ demount the tire, tire rotates clockwise. If the tire is jamming during the process, please stop working and counterclockwise rotate the tire to remove the jamming.



Do not place your hand on the tire. When the hexangular shaft comes back to its work position, the hand between the rim and the tool head may be crushed. Remove the objects may cause the danger to the operators such as bracelet and loose cloth etc. To avoid the accident, when the turntable rotates, you should keep your hand and the other part of your body away from the tool head as far as possible.

INFLATION

1. Warning



Warning: The explosion may cause serious damage to the operator even death. So you should be more careful and strictly follow the following use instruction. For the reason that some protective devices are not designed and manufactured, the operator must wear the goggles and related protection.



Note

During operation, the noise may reach 85dB(A), so the operator should wear the related protective devices.



Danger

The machine is equipped with inflation pressure limit valve, but if the condition of tire and rim is not good or the operation is incorrect, there is still the possibility of tire burst.



Danger

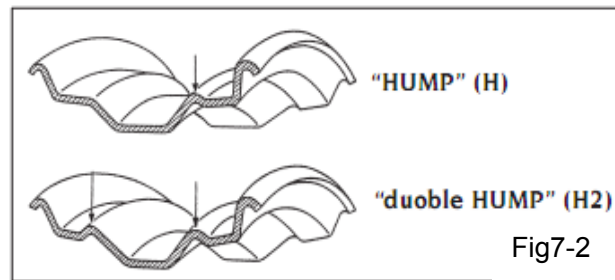
Do not exceed the max pressure nominated by the manufacturer.

During the process to inflate, the operator should keep away from the tire as far as possible.

- Carefully check if the size of the rim is same to the size of the tire.
- Check the wear state of the tire or whether there is damage or not.
- During the process to inflate, frequently check the pressure inside the tire.
- The hand and body should be kept away from the tire.

2. Inflate tubeless tire

- Secure the rim is firmly fixed on the turntable and the tool head and the tire pressing disk has been kept from the tire. If possible, it should be positioned to the farthest point.
- Mount a new nozzle at the rim.
- Secure the tire has been completely lubricated.
- Take out the cup of the nozzle and clamp the gun at the top end of the core to inflate the tire.
- Frequently stop inflation and check the pressure inside the tire, not exceeding 3.5bar, until the pressure inside the tire meet the requirement and avoid the tire pressure not exceeding the max pressure.
- Tubeless tire needs relatively large air flow. If air flow is not enough, the bead should not transit the hump. To increase the air flow, you can take out the core of the nozzle. As figure, it is very good for the safety of the car when in runs on the road.



- Check. The junction between the bead and rim must be perfect. If there is problem, you must deflate the tire and repeat breaking bead and lubricate the bead. Rotate the tire and then inflate the tire.
- Attach the core to the nozzle.
- Connect the inflation gun and then press the deflate button to remove the residual air.
- Mount the nozzle.

3. Inflate the tire with tube

- Secure the rim is firmly fixed on the turntable and the tool head and the tire pressing disk has been kept from the tire. If possible, it should be positioned to the farthest point.
- Mount a new nozzle at the rim.
- Secure the tire has been completely lubricated.
- Take out the cup of the nozzle and clamp the gun at the top end of the core and step down the inflation pedal 13 to inflate the tire.
- Push the nozzle on the tube to deflate the air between the tube and tire. Or the tube will be damaged.
- Frequently stop inflation and check the pressure inside the tire, not exceeding 3.5bar, until the pressure inside the tire meet the requirement and avoid the tire pressure not exceeding the max pressure.
- Attach the core to the nozzle.
- Connect the inflation gun and then press the deflate button to remove the residual air.
- Mount the nozzle.

4. Tire pressure

- Securing the correct tire pressure is very important to the safety of the wheel.
- The low tire pressure will cause the tire to be too heat and with serious wear. And the life of the tire will be shortening. The inside of tire will be damaged and the oil consumption will be larger.
- The high tire pressure will cause easy damage when clamping and the tire wall will be seriously worn.
- You must check you tire pressure one a week. You should prepare a spare tire before you start a long distance journey.
- Check the tire pressure under the normal tire temperature, not check when the tire temperature is too high or too low.
- Normal tire temperature means the vehicle has not run for more than one hour or the run for not more than 2-3km in low speed.
- The tire pressure under normal tire temperature should meet the requirement of the car and the tire producer.
- When the car is under heavy load, if the tire pressure are not special specified, normally speaking, the tire pressure will increase by 0.3bar.

TRANSPORT

- Switch off the air supply switch and power supply switch.
- Transport the machine as per the method in chapter "unpacking"



Note:

When you hoist the machine, you should not damage the nozzle and air hose on the machine. Pay mote attention to the process of hoisting machine.

STORAGE



If you want to store the machine for a long time, you must secure

- Switch off the air supply and power supply and lubricate the movable parts to prevent rusting.
- The storage temperature is -25°C ---- 55°C
- The machine should be kept away from the inflammable and explosive materials. It should also be kept from sun and glare. The place to store the machine should be good ventilation.

RUIN



If you want to ruin the machine, you must secure

- Switch off the air supply and power supply.
- Remove all the non-metal substances and treat them as per the local law and regulation.
- Collect the oil and treat them at the pointed place as per the local law and regulation.
- Ruin the other metal substances.

Environment



The machine contains some substances which will pollute the environment and cause the damage to the human body if they are not treated properly.

MAINTENANCE

1 Warning



Non-professional personnel should not undertake maintenance.

- As per the description in the manual, undertake the maintenance periodically. This is very necessary to prolong the life of the machine and guarantee the normal work condition of the machine.



you do not undertake the periodical maintenance, the reliability and operation of the machine will not get guarantee and may cause danger to the machine, operator and the people nearby.



Before undertake any maintenance, you should switch off the air supply and power supply. By repeating stepping down the pedal, you can deflate the residual air in the machine completely.

- The fault parts must be changed by the original parts provided by the manufacturer.



Removing or breaking the safety devices such as safety valve and standard nozzle violate the safety standard.



Special note: The manufacture will not be responsible for the claim arising from the apply of the parts supplied by the other supplier and the damage caused by removing or breaking the safety devices.



You should not modify the component on the machine without authorized.



Note:

Keep the working area clean;

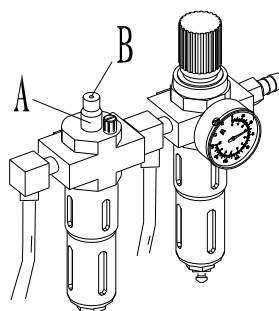
Do not use the compressed air to blow off the debris on the machine;

Reduce the coming out of the dust around.

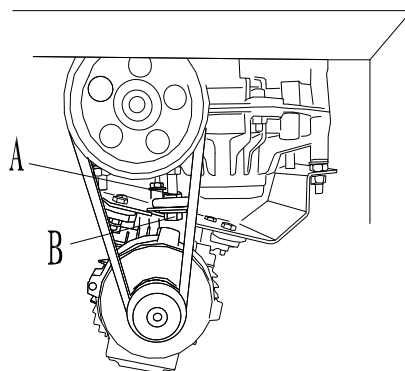
2 Maintenance operations

Do the following operation at least one time per 30days.

- Check the oil level in the oil cup E. If the oil is not enough, remove the oil cup and fill the lubrication oil as shown in Fig11-1. The oil filled in the lubricator must be the special SAE20 oil.
- The oil feeding speed regulation: Make the bead breaking cylinder run back and forward to check whether the oil feeding speed is one drop of oil per 2 travel of the cylinder. If not, use the bolt B to adjust as Fig 11-1.
- Drainage: Check the water quantity in the water cup. Turn/ press the valve D at the low end of the water cup to drain.
- Each time before operate the machine, you should make the bead breaking cylinder run back and forward to observe the lubricator A and make sure it starts feeding oil to the air route. After you confirm that the lubricator works normal, you can guarantee each part of the air route system under perfect lubrication.



- Periodically tighten the nut at the fixed equipment.
- Periodically fill in the lubrication oil components can move and slide to each other.
- Periodically adjust the tension of the motor belt as per the following steps:
 - Before this operation, switch off the power supply and air supply.
 - Detach the side panel on the machine cabinet.
 - Release the bolt A and nut C. Adjust the adjust bolt B at the back end of the motor bracket. Tighten the belt as Fig11-2. The requirement to the tension of the belt is that the belt will move inward by 8mm if you apply the force of 8kg.
 - After adjust, position the belt and tighten bolt A and tighten nut C



3. Use of the oil

- Treatment of waste oil: Do not expose the waste oil can be volatile to the air or directly drop into the sewer/ river. You should dispatch it to the professional treatment company to treat.
- Oil overflow and leakage: Prevent the oil from entering into the soil, sand or any other absorbent. To the residual oil, you must use the cleaning substances can solute oil to treat. The cleaning agent must comply with the local law and regulation requirements.
- Warning to use the oil
- Avoid direct contacting the skin.
- Do not let the oil form oil fog and diffuse into the air.
- **We must meet the following safety requirement**
 - Avoid the oil from splashing and touching the skin, the surface of machine and protective cover of the machine.
 - Often use wash and soap to use your hand. Do not use the detergent stimulating skin and subjects harmful to the skin.
 - Do not use the rag to clean your hands.
 - Do not wear the oily clothes, while you must change the working suit after finished the work.
 - Do not smoke and eat with the oily hand.
- **Meanwhile, take the following measures**
 - The gloves should be oil-proof.
 - Wear goggle to prevent the splash of the oil.
 - Wear aprons to prevent the oil.
 - Apply protective screen to prevent the splash of the oil.
- It is forbidden to inhale, swallow of oil. And forbidden the splash of the oil and prevent oil from touching skin.
- Firefighting material
- As per the following table

	Solid	Liquid	Electrical equipment
Water	yes	no	no
Foam	yes	yes	no
Dry powder	Yes''	yes	yes
CO2	Yes''	yes	yes

Yes'' The material used should be used by the professional firefighting



Note

The above information is only for the purpose to provide the user with the basic guidance. The detailed information should contact the fire management agency.

TROUBLESHOOTING SOLUTION



All the problems should be checked and solved by the professional personnel. If you have no professional personnel, you must contact the dealer to get the related technical service for fear of wasting time.

- **Turntable cannot rotate**

Short circuit

- Check cable of motor
- Change motor
- Check the plug
- Check the reversing switch/ change reversing switch
- Check the driven parts of the reversing switch
- Adjust the belt/ change the belt

- **The pedal can not back to its original position**

The spring is damaged.

- Change the spring.

- **Bead blade can not break the bead**

The cylinder sealing kits is worn

- Change the sealing kits
- Change the new cylinder

- **Air leakage at the center of the cylinder**

The cylinder sealing kits is worn

- Change the sealing kits
- Change the cylinder

- **Worm case can not work or the noise is too much**

The worm case assembly is damaged.

- Change the worm case.

- **The turntable can not fix the rim**

The turntable cylinder is damaged

- Change the turntable cylinder
- Change the turntable cylinder sealing kit

- **The torque is not enough when demount/ mount the tire**

The tensile force of the belt is not enough and the bead can not be led into the groove of the rim.

- Adjust the belt.
- Change the motor capacitor
- Change the motor
- Use the tire pressing help to lead the tire into the groove of the rim while keep full lubrication on the bead.

- **The hexagonal shaft work not smoothly**

The lock plate cannot lock the shaft

- Change new lock plate
- The screw on the lock plate is loosen.
- Adjust the hex shaft lock plate.

PNEUMATIC SCHEME

