Pro-Tech TOOLS

Pneumatic-hydraulic mobile hoist



Instructions for use

Translation of the original instructions

BASIC SAFETY RULES

The operator must read the following operating instructions and safety rules. Read these instructions carefully and become familiar with the safety symbols before using the hoist.

- The manufacturer reserves the right to make changes without prior notice and without penalty, compromising safety and essential technical characteristics.
- Failure to follow instructions can cause injury, in some cases fatal.
- The manufacturer is not liable for damage to objects or injury to persons caused by improper or inappropriate use of its product.

NOTICE



- **Never stand** under a raised vehicle.
- **Always** secure the raised vehicle with supports.
- Lock the unraised wheels on both sides.
- Never use this hoist to lift, level or stabilize caravans and other building structures.
- Always work only relaxed and sober. Never work under the influence of intoxicants.
- Familiarize yourself with the contents of the instructions before starting work. Familiarize yourself with the hazards and the warnings contained therein.

Safety instructions

✓ The equipment may only be used by authorised persons who must be familiar with the contents of this manual and the contents of the maintenance manual.

✓ A hoist is a device designed for lifting only, not for holding loads, so it is absolutely strictly forbidden to work under the vehicle being lifted in any way unless it is placed on suitable stands/supports.

✓ Before lifting, the vehicle must be secured with a parking brake and the wheels must be under the chocks to prevent shifting.

✓ If the vehicle is loaded, check the stability when lifting.

✓ Position the jack so that the load is centred and at the force application points specified by the vehicle manufacturer.

✓ When lifting and lowering, make sure there are no persons or animals under or near the load being lifted.

✓ Before lowering the load, check that the handle is in a horizontal .

✓ Never lift loads on sloping, uneven or soft ground.

✓ If are required, use only those supplied by the manufacturer with the hoist.

✓ Do not lift the vehicle in confined spaces due to the risk of getting stuck.

✓ Do not use more than one jack at the same time for one vehicle.

- ✓ Never tamper with a safety valve that has a warranty seal.
- ✓ If the vehicle slides off the hoist, or if the hoist strikes the load violently, do not use the hoist until it has been inspected by an authorised workshop.

Connection to compressed air supply

Compressed air enters the hoist circuit through the quick coupler at the top of the hoist handle and the trigger; it is to have a hose with a coupling matched to the hoist coupling. Check that the hose has an inside diameter of at least 8 mm and is not twisted or kinked anywhere.

- Always protect the compressed air circuit from the presence of hydraulic oil or petroleum jelly, brake fluid, paraffin or other fluids.

- Install a filter assembly with a skimmer and lubricator in the compressed air circuit. The hoist can be fed from the truck's compressed air circuit. However, this requires the installation of a skimmer and lubricator.

Use

Follow the safety rules described in this manual.

1. Position the jack at the force application points specified by the vehicle manufacturer. The manufacturer is not responsible for damage to the vehicle caused by improper use of the jack.
2. Once the load has been lifted, the load must be supported on stands before any work is carried out.

REMEMBER, A HOIST IS A LIFTING DEVICE, NOT A SUPPORT DEVICE.

- The employer must provide the operator with the necessary training and information on the operation of such equipment
- If the manifold breaks down during operation, immediately close the safety valve between the quick coupler and the manifold.

Before lifting vehicles with the hoist, we recommend that you carry out a few operations to familiarise yourself with its safe operation!!

Lifting the load

1. Place the jack under the vehicle
2. Prepare stands/supports to secure the vehicle
3. Connect the compressed air hose to the jack valve
4. To start lifting, move the control lever to the UP position
5. After lifting, secure the vehicle using the supports
6. Release the jack by moving the control lever to the DOWN position
7. Release the jack
8. For additional securing of the vehicle, leave the jack under the vehicle
9. Lowering is done in the same way as lifting
10. **IMPORTANT:** Move slowly when starting the vehicle. Starting the vehicle quickly may cause it to crash.

Incorrect use

The pneumatic-hydraulic hoist is designed for lifting vehicles. Any other use of the device, e.g. for lifting and transporting people, stabilising building structures, is completely inappropriate. Any use of the hoist that is not in accordance with the safety rules in this manual is considered improper use. A

can lead to extremely dangerous situations. The manufacturer cannot foresee any improper use of the hoist. For this reason, it is forbidden to use it for purposes other than those described in this manual.

Maintenance

- It is recommended to clean the pistons every two weeks to ensure the long life of the lifting equipment. This should be done with a soft cloth dipped in hydraulic oil. Never use detergents for this purpose!
- Check the oil level in the tank at least twice a year: check when the oil level is fully folded pistons. The oil level must reach the small plug on the side of the cylinder (fill plug). If it is necessary to top up the oil tank, check that the oil used corresponds to the specifications given in the table specifications.
- If the oil level is higher than intended, even by a little, or if the jack has been turned upside down (which can easily happen during transport), the oil will be displaced by pumping in the in the form of fog. Once the oil level is set correctly, this phenomenon disappears by itself. If the oil level is significantly higher than prescribed, we recommend removing the oil until the correct level is re-set.

Problems/replacements

Air

- Check the air inlet for blockages
- Seals are worn, replace them
- The seals on the piston are hard to slip: disassemble the cylinder and piston rod and lubricate them.

Jack

- Check the oil level using the screw on the side of the cylinder
- Check the hydraulic block, paying particular attention to the pistons that control the opening and if they are stuck, dismantle and lubricate them.

Technical data:

Model	**JP30T-1**	**JP50T-1**
Stroke force	15/30 T	25/50 T
Minimum height	195 mm	195 mm
Maximum height	420 mm	370 mm
Recommended hydraulic oil	L-HL 46	L-HL 46
Working pressure	6 - 8 bar	6 - 8 bar