

Beta

3065/20-10T



INSTRUCTIONS FOR USE

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AIR HYDRAULIC JACK

OPERATION MANUAL AND INSTRUCTIONS FOR AIR HYDRAULIC JACK MANUFACTURED

BY: **BETA UTENSILI S.P.A.**

Original documentation drawn up in ITALIAN.

CAUTION



IMPORTANT! READ THIS MANUAL THOROUGHLY BEFORE USING THE AIR HYDRAULIC JACK. FAILURE TO COMPLY WITH THE SAFETY STANDARDS AND OPERATING INSTRUCTIONS MAY RESULT IN SERIOUS INJURY.

Store the safety instructions with care and hand them over to the users.

PURPOSE OF USE

The air hydraulic jack can be used for the following purposes:

- suitable for lifting means of transport
- functional and handy, for transportation - for example, on mobile workshops.

The air hydraulic jack must not be used for the following operations:

- use as a support
- use under the vehicle that is being lifted
- lifting and/or moving people
- use for any applications other than those it has been designed for
- maximum loading capacity stated in TECHNICAL DATA table must not be exceeded.

WORK AREA SAFETY



For reasons of safety, the hydraulic jack must be used by one person.



Keep children and bystanders away from your workplace while operating the jack. Distractions from other people can cause you to lose control over the jack.



Use the jack on a flat floor. Do not lift loads on sloping grounds. Using the jack on soft, uneven floors may result in load instability.



Do not lift the load in narrow areas, not to run the risk of getting trapped.



Do not use several jacks on the same load simultaneously.



Do not stand under the load before placing it on suitable stands.



Before starting lifting operations, secure the vehicle with the emergency brake and/or place two wedges at the wheels.



Before lifting a loaded vehicle, check that the load is stable.



While the jack is being used, the engine of the vehicle must be off.

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PERSONNEL SAFETY

- Stay alert; watch what you are doing. Do not use the jack while tired or under the influence of drugs, alcohol, or medication.
- **HANDLE THE JACK WITH THE GREATEST CARE WHILE PERFORMING ANY OF THE JOBS IT HAS BEEN DESIGNED FOR, TO AVOID GETTING SERIOUSLY INJURED.**
- Always use the following personal protective equipment:
 - safety footwear;
 - protective, mechanically resistant gloves.
- Make sure you are in a safe position while operating the jack, keeping proper balance at all times. A safe working position and a proper body posture enable better control of the jack in unexpected situations.

INSPECTION AND MAINTENANCE

Periodically carry out the following inspections in accordance with the Machine Directive and the standards concerning checks of lifting apparatus:

- Before each use, visually inspect the jack, checking that there are no surface defects, including deformations, cracks, rust or cuts that may prevent the jack from being properly operated.
- The pistons should be externally cleaned every fifteen days.
- If the jack is not used for prolonged periods, before using it, check that it is perfectly serviceable.
- Perform extra checks following any particular events that may have caused the jack to be damaged, thereby affecting proper operation.

All maintenance and repair jobs must be performed by authorised staff; contact Beta Utensili's repair centre, if need be. Only original spare parts may be used.

Oil level check

Check the oil level in the tank at least twice a year. The maximum oil quantity contained in the tank is 0.55 l. ATF DEXRON IID compatible oil.

Check the oil level as follows:

- 1) Bleed off the air (see section Bleeding).
- 2) Position the jack horizontally with the pistons down.
- 3) Undo screw 1 and then screw 2 (pict.13)
- 4) If, once the screw has been undone, no oil comes out, the level is too low. Add oil in this case. The oil level must be at the height of the screw (pict.13)
- 5) If oil does come out, let the excess quantity drain off until the right level is reached.
- 6) Drive in the screw 2. Enable the up command, making the piston go up by approximately 4 cm; then lock the screw 1.

Air bleeding

Whenever the jack is serviced, removing and reinstalling parts connected to the tank and motorpump, air should be bled off as follows:

- 1) Move out the pistons completely.
- 2) Loosen the dowel in the piston
- 3) Let all the air out from the dowel and continue until oil starts coming through; push the piston down, if need be; then close the dowel.
- 4) Move the pistons back in completely and check oil level.
- 5) Try to operate the jack without any load, and if the pistons lower in jerks, repeat the procedure at least 2 or 3 times.

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AIR HYDRAULIC JACK USE AND CARE

- Place the jack so that the load is centred over it, at such gripping points as stated by the vehicle manufacturer.
- If any extensions are needed, only use those supplied by the manufacturer with the jack. Do not use the extensions without the plate. Do not use more than two extensions.
- Do not force the pressure relief valve that has the guarantee seal.
- Do not leave any pressure in the jack at end of stroke when there is no load.
- Before lowering the load, check that the handle is in the horizontal position.
- Store the jack in a suitable place when not in use.
- It is absolutely forbidden to make any structural changes to the jack, as these might affect its safety characteristics.

PERSONAL PROTECTIVE EQUIPMENT TO WEAR WHILE USING AIR HYDRAULIC JACK

 Failure to observe the following warnings may result in physical injury and/or disease.

	ALWAYS WEAR SAFETY FOOTWEAR WITH PROTECTIVE TOE CAPS
	ALWAYS WEAR MECHANICALLY RESISTANT PROTECTIVE GLOVES

 The above-mentioned personal protective equipment refers to the use of the jack in normal working environments. If any hazardous situations are shown following specific surveys, it must be supplemented with such equipment as described in the risk assessment document, in compliance with current standards concerning safety in the workplace.

TECHNICAL DATA

MAXIMUM CAPACITY	10 - 20t
POWER SUPPLY PRESSURE	8.0 ÷ 10 bar
MAXIMUM AIR CONSUMPTION	400 nl/min
AIR INLET	1/4" GAS, cone-shaped
MINIMUM INTERNAL HOSE SIZE (ø)	6 mm
MAXIMUM STROKE	166 mm
MINIMUM HEIGHT	140 mm
NUMBER OF PISTONS	2
PISTONS STROKE	80 - 86 mm
OPERATING TEMPERATURE	-20 °C ÷ +50 °C
WEIGHT	17.6 kg
SOUND PRESSURE LEVEL	60 dBA

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ASSEMBLY

Take the handle, the jack and the extensions out of the cardboard box.

The handle is made of three parts. Before use, assemble as per drawing, using the dowel and wrench supplied with the jack.

Connect the jack to the compressed air system through the quick coupling on top of the manual lifting/lowering control of the jack.

Lubrication

The air hydraulic jack must be connected to a filter-lubricator unit with an air-oil microfog mixer (we recommend Beta item 1919F1/4), set at two drops per minute. This will result in a high-performing tool and wear-resistant mechanical parts.

If lubrication is not provided to the line, to lubricate the compressed air circuit use the following oils:

- AGIP OSO 100; MOBIL DTE 27; ESSO TERESSO 100; SHELL TELLUS 100; BP ENERGOL HP 100.

HOW TO USE AIR HYDRAULIC JACK

Lift vehicles as follows:

- Position the jack under the supports as described in the manual of the vehicle manufacturer.
- Use the extensions supplied with the jack together with the relevant plate, if need be (pict.12)
- Pressing A on the control block will enable the lifting mode. (pict.12)
- Pressing B on the control block will enable the lowering mode. (pict.12) With no load, as the pistons will not go down completely, they must be lowered by hand.
- After lifting the vehicle, before carrying out any jobs under it, place it on suitable stands.



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



Do not stand under the load before placing it on suitable stands.



Before starting lifting operations, secure the vehicle with the emergency brake and/or place two wedges at the wheels.

- After the jack has been used or if it is not used for prolonged periods, the pistons should be completely down, and the jack should be stored in a safe, suitable place.

Accessories

The jack is supplied with two extensions or height adapters (60 mm) and a circular tooth plate (16 mm).

DISPOSAL

The jack must be disposed of in compliance with the laws in force in the country where it is used.

WARRANTY

This equipment is manufactured and tested in accordance with current EU regulations, and is covered by a 12-month warranty for professional use and a 24-month warranty for non professional use respectively. We will repair any breakdowns caused by material or manufacturing defects by fixing or replacing the defective pieces or replacing them at our discretion. Should assistance be required once or several times during the warranty period, the expiry date of this warranty will remain unchanged. This warranty will not cover defects due to wear, misuse or breakdowns caused by blows and/or falls. In addition, this warranty will no longer be valid if any changes are made, or if the jack is forced or sent to the customer service in pieces. This warranty explicitly excludes any damage to people and/or things, whether direct or consequential.

DECLARATION OF CONFORMITY

We hereby declare, assuming full responsibility, that the described product complies with all the relevant provisions of Machine Directive 2006/42/EC and amendments thereto, as well as with the following standard:

- EN 1494