



LIBERATOR

INTENDED USE – TECHNICAL DATA

The Liberator Wheel Lift & Carrier Unit is intended to be used to facilitate movement, mounting demounting of coarse tread pattern tyres on tractors, earth moving machines, dumpers etc. The Liberator machine must not be used to lift or support the vehicle. The ground must be plane, horizontal, hard and non-slip, without cavitations obstacles.

Max load	1200	kg
Wheel diameter, min – max	1100 - 2200	mm
Max tyre width	800	mm
Width (pumped together)	1260	mm
Depth	1030	mm
Height, wheel support in lowest position	1360	mm
Weight	120	kg

This Manual shall be available for all concerned staff, saved in a protected place. It shall accompany the product, if this is moved to another operation site.

SAFETY INSTRUCTIONS

The Liberator machine must only be operated authorised, instructed personnel. Authorization means obligation to study the instructions, to follow them. Bear in mind that you as operator are responsible for that no accident occurs.

It is very important that you read and understands the instructions before you use the Liberator Wheel Lift & Carrier machine.

If you have any questions – contact your supplier.

- Only utilize Liberator for its intended use.
- Check that the machine is in proper order. When a fault is detected, advise your works management. Do not use the Liberator if there are any faults or damages that will influence the operational safety, or if it has been repaired, altered or adjusted without permission of a responsible person.
- The operation must be made so that there are no risks for damages on persons or properties.
- Do not lower the trolley unless the area under it is free from persons or obstacles.
- Note that there are trapping risks between the support rollers, rollers and the frame and ram, and between the wheel and machine parts.
- Wear safety shoes, and if required by the work task, safety gloves and coveralls.
- It is strictly forbidden to lengthen the trolley, or to alter it in any other way.
- It is strictly forbidden to use Liberator for other wheel sizes (bigger diameter, wider, heavier) than what it is made for. (See the Technical Data)
- The Center of Gravity of the load shall be in the center of the machine. Horizontal forces are not permitted.

- Do not use the Liberator as a lifting jack, e.g. for lifting a vehicle.
- The wheel support (D) and the wheel clamp (E) are only meant to balance the wheel, not to resist large forces. The horizontal part shall be placed approx. 20 mm above the wheel surface, and the support wheel shall lie close to the flat side of the tyre.
- Liberator may only be operated on dry and non-slip horizontal ground. It is absolutely forbidden to use the machine on inclined ground.
- Never drive over edges or similar when there is a load on the Liberator. The machine can turn over.
- Secure the wheel stability at working with the wheel and when moving the Liberator by means of using the wheel support. The support shall be adjusted for the appropriate wheel.
- It is of utmost importance for safe work that cradle position is secured with the locking pin (F), at the nearest outer hole of the inner frame profile. If the Liberator framework separates the wheel will fall out.
- The cradle shall be pumped apart when the tank screw (G) shall be demounted. If not, it is a risk for excessive tank pressure, which can cause oil overpressure in the tank. This might lead to an oil jet when the tank screw is opened.
- Oil leakages shall be taken care of immediately, in order to avoid slipping. Use suitable gloves, as oil on the skin can cause allergic reactions.
- Decals and instructions may not be removed or be made unreadable.
- Applicable Safe use Regulations must be complied with.
- For destruction of oil leave it to nearest collection point for hazardous waste.

WARRANTY

In accordance with the warranty conditons in Orgalime S 2000 the manufacturer will replace or repair all faults which depend on manufacturing or material faults and which appear within twelve (12) months from the delivery. For further details about the conditions, see Orgalime S 2000.

Note! Alternative warranty conditions may apply. See the Order Acknowledgement for actual conditions.

The warranty is only valid if inspections and maintenance is carried out in accordance with the instructions. This warranty does not cover the cost of normal maintenance, settings or scheduled adjustments as specified in the instructions. Also the labour costs for such actions are not covered by the warranty.

Damages caused by misuse or incorrect operation of the equipment means that the warranty will expire.



Gothia Redskap declares that the Liberator Wheel Lift & Carrier Unit complies with the basic safety requirements of the EU Machinery Directive (2006/42/EG).



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GENERAL DESCRIPTION

The lifting movement is achieved by a two-stage pump, which powers a double-acting hydraulic cylinder. The hydraulic unit is mounted inside the frame. The wheel to be handled is lifted up by rollers being pressed in under the wheel. The wheel is balanced by a telescopic wheel support.

DELIVERY AND ASSEMBLY

Liberator is delivered with the wheel support, support clamp, pump lever and the tube for the manual un-assembled. In some cases also the roller cradles are un-assembled. Install the un-assembled parts and make sure that all attachment devices are properly tightened.

OPERATION

When the operation is in a public location, particularly when children can enter the work area of the Liberator, the operator shall make satisfactory arrangements to prevent persons from entering the hazardous area, e.g. by means of blocking the work area. We recommend that a Risk Assessment shall be carried out in accordance with the Machinery Directive.

The vehicle is raised and secured with a hydraulic jack and proper supports.

Release the lowering pedal (A) from the safety ratchet (B), and press the pedal. Pump apart the cradles by means of the pump lever (C). The switching from low pressure (fast lift) and high pressure (low speed) follows automatically at loading.

Adjust the wheel support (D) so that the support clamp (E) is positioned above the tyre.

Push the Liberator in under the tyre.

Check that the lowering pedal (A) is in the top position and is locked by the safety ratchet (B). Pump the cradle together until the cradle and the Liberator cannot be separated.

The tyre must not be lifted in this situation.

Fold down the support clamp (E) behind the tyre, perpendicular to the tyre rotation direction, and adjust until the tyre is vertical and can move max. 5 centimetres sidewise. Lock the support clamp.

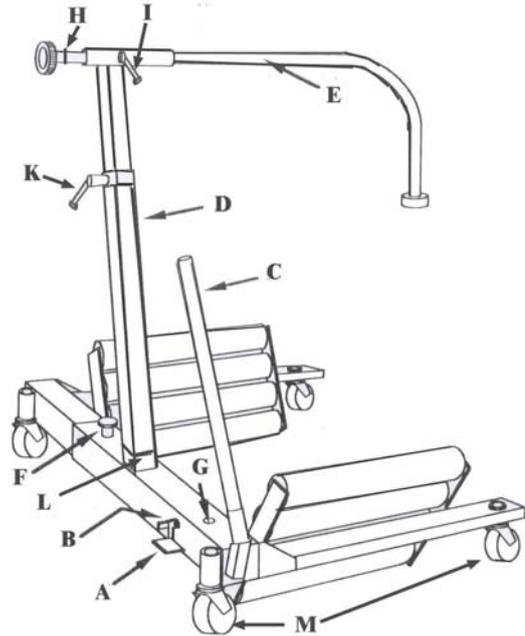
WARNING! The wheel support (D) and the support clamp (E) are only meant for balancing the tyre, not to carry the vehicle or any horizontal forces.

Lift the tyre. When tyre is kept on the Liberator, even shortly, the Liberator shall be secured with the locking pin (F), at the nearest outer hole of the inner frame profile. This prevents unintentional lowering of the tyre.

DECALS

The machine is provided with the following decals:

- Machine plate with address, load data and the CE-mark.
- Decal Wheel support, placed on the wheel support (D).
- Decal Locking pin, placed at the locking pin (F).
- Decal Plane surface, placed at the tank screw (G).
- Decal Manual, placed on the tube for the Manual.



A Lowering pedal Up = pull together Down = press apart	D Wheel support	I Width adjustment
B Safety ratchet	E Support clamp	K Height adjustment
C Pump lever	F Locking pin	L Locking bolt
	G Tank screw	M Swivelling wheel
	H Washer	

MAINTENANCE INSTRUCTION

At inspections, service repair works there shall be no load on the machine. Inspections, service and repair works has to be made by competent personnel.

A record shall be kept over the performed inspections and any actions that have been undertaken. This comprises: Date of the inspection or repair, status, machine status, executed repair or other action, and information about whom has carried out the inspection respectively action.

- Check the machine for all kinds of defects, cracks, torsion, corrosion etc., and that all locking devices are available and tightened.
- Check the machine for possible oil leakage.
- Check that all decals are available and fully legible.

When refilling oil the cradle is pumped apart as far as possible. **The tank screw must not be demounted, as there is an overpressure in the system.** (NOTE! At too small oil amount the outer position of the cradle cannot be reached). Thereafter the tank screw is removed (G). During the oil filling the cradle shall be pumped apart. When the outer position is reached no more oil shall be added. The tank screw (G) shall be fitted when the cradle is in the outer position. Oil is easiest filled with an oil can.

The oil shall be of quality ISO VG 15.

INSTRUCTIONS FOR RECYCLING

The machine manufactured from re-usable materials or from materials that can be recycled. Specialized companies will take care of worn out Liberator units, dismantle them and utilise materials that can be re-used.



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