

EUROSIGN



**NOTICE
ORIGINALE**



[ORIGINAL INSTRUCTION MANUAL]

LIFTING ENGINEERING CO. UK

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GENERAL REQUIREMENTS

- Do not overload machine;
- Do not use machine roughly;
- Do not put wheels into any hole or cavity in the road;
- Do not step across cavities;
- Keep your back straight when using machine;
- Be ready to bend your knees (for ergonomic reasons);
- Use machine according to instructions in manual;
- Do not use machine to lift items other than plates;
- Always check axles are locked in place before use;
- Do not use bare hands to touch and move plates;
- Use suitable protection equipment and clothing.

SAFETY

Read this important information before handling permanent magnets!

Responsibility:

Eurosign is not responsible for any damage caused by magnets being handled outside the context of LIFTPLAQ® being used according to this instruction manual. At the time of purchase you will confirm that you have read and understood the warnings set out here. If you hand over magnets to a third person or a child, warn them clearly of the potential dangers represented by the magnets.

Make sure you take the time and trouble to carry out regulatory checks in line with the laws and regulations in force in the country.

Physical risks from handling:

The force exerted by each magnet depends on its shape and volume. However the force is a mathematical function of the square of the distance between the ferromagnetic material and the magnet. Large powerful magnets should therefore be handled with a lot of care. A large magnet can crush a finger if the finger is trapped between magnet and ferromagnetic material. When handling, wear suitable individual protection machine (protective gloves, for example).

Storage:

Magnets are to be stored in a clean and dry place at ambient temperature. Take care not to store magnets in the proximity of any electrical machine.

Effect on objects and people:

Maintain a 30 cm safety distance between any type of magnet and any electronic machine including PCs and PDAs, or any object that is sensitive to magnetic radiation such as credit cards. If these instructions are not observed, you can irreparably damage your portable phone, watch or credit card. Whilst the influence of magnetic fields on the human body has been widely debated, we would ask you not to carry any magnet on your person for any extended time.

RISK ANALYSIS

Possible situation	Cause	Risk	Solution
Plate becomes detached during LIFTPLAQ® use	<p>Plate unsuitable (insufficient iron in contact with weak magnet)</p> <p>Bad LIFTPLAQ® positioning</p> <p>Jolting during use</p>	<p>Feet could be crushed</p> <p>Feet could be crushed</p> <p>Feet could be crushed</p>	<p>Wear safety shoes</p> <p>Wear safety shoes</p> <p>Position magnet closer to centre of gravity</p> <p>Use LIFTPLAQ® in a flexible and fluid way</p>
LIFTPLAQ® tips over when hinged plates are being handled	No hinging effect or degraded hinge	LIFTPLAQ® machine + plate collide with operator Crushing	Check condition of hinge or articulation facility before using machine
Detachment of hammer piece during tapping	<p>Not fully screwed in</p> <p>Damaged screw thread</p>	Hammer piece thrown about	<p>Check condition of hammer piece before using machine</p> <p>Check that screw is fully tightened (no thread visible)</p>
Sparks generated during plate tapping	<p>Using steel hammer piece</p> <p>Using degraded brass hammer piece</p>	<p>Explosion</p> <p>Explosion</p>	<p>Use brass hammer piece (yellow metal)</p> <p>Check hammer wear and that minimum admissible dimension has not been reached and that screw is not visible (minimum is appearance of threaded hole through worn surface)</p>
Backache	Bad posture	Backache	Use LIFTPLAQ® according to instructions in manual

USE

The LIFTPLAQ® machine can handle all plates and pads with suitable iron density and weighing up to 110 kg.

The metal surface should have a sufficiently large magnet contact area for the magnet to work properly.

Putting it simply, in this set of instructions, when we talk about plates, it should be understood this includes both plates and pads.

Field of Activity

✓ SINGLE PLATES

1) Roll LIFTPLAQ® along to the place of activity without forgetting to take all visual and suitable safety items (including fluorescent jacket).

2) If the place of activity is on the public highway or place of public passage, mark out the area with cones to ensure you have a suitable working area.

3) Preparatory activity:

- plates with locking systems: use the metal probe in the handle to unlock it (take out split pin and pin to take out handle);

- blocked plates: check if need that there is no gas and use steel hammer piece that would have been fully unscrewed from the handle to tap;

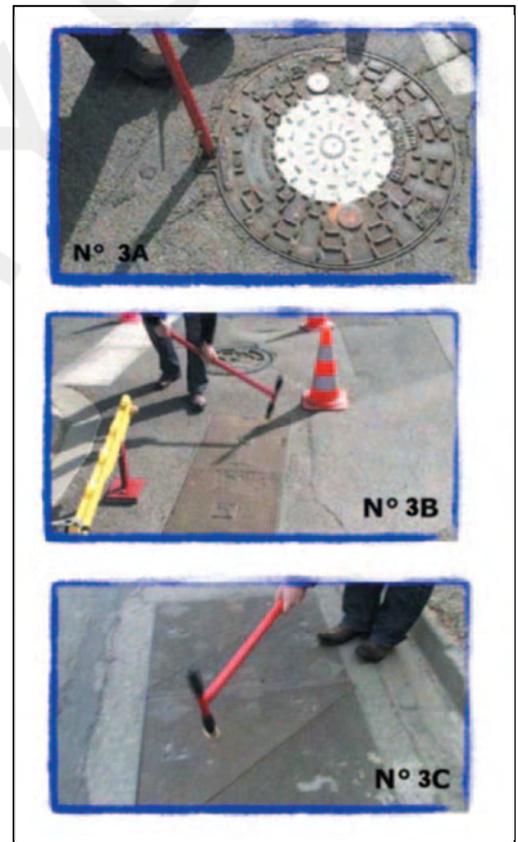
- plates unworkable because of gas presence, same instructions as above but with bronze (yellow metal) hammer piece.

**Please note! Do not use a hammer piece in bad condition. There is a risk of sparking. (When hammer piece is worn to the point where you see the threaded hole through the working surface, hammer piece should no longer be used.)*

4) After checking that the plate is free to be lifted and is unlocked, roll the machine so that the magnet is brought as near to the plate centre of gravity as possible.

Place magnet on plate, adjust wheelbase distance by taking out split pin and magnet pin by selecting the adjusting hole that allows the wheels to be outside the plate area. To do this, replace pin in the previously selected hole and lock it in place with the split pin.

5) Position sleeve to have the greatest leverage.



6) During this whole operation keep your back straight and your knees bent as necessary.

7) Use wheels to move plate or pivot it to take it into a safe area.



REMINDER: when moving machine and plate, do not go over hole.

8) After opening the sewer, drainage or services system the operator may clean the edges of the manhole itself to remove impurities such as earth, sand and pebbles. To do this take out split pin and retaining pin and use handle-bar shaft point to clean manhole edge.



9) To close up manhole take the LIFTPLAQ® with its handle that would have been replaced. Roll machine and plate as needed and position plate over hole. Lower LIFTPLAQ® system until plate is back in place.

10)
a. **Detaching magnet: handle completely taken out.**
To detach magnet from plate, use lifting handle and lift until magnet detaches. During this operation, the handle is pushed against the ground.



b. **Detaching magnet in an easier way: using retracted handle.** To separate magnet from plate, pull handle back fully, use LIFTPLAQ lifting handle or body to pull up until the magnet is detached. During this operation, instrument handles will be pushing on the ground.

Always position magnet on plates while holding LIFTPLAQ® by the handle-bars.

11) The operator can remove the area marker cones and pack up the LIFTPLAQ®.

✓ **HINGED PLATES**

1) Roll LIFTPLAQ® along to the place of activity without forgetting to take all visual and suitable safety items (including fluorescent jacket).

2) If the place of activity is on the public highway or place of public passage, mark out the area with cones to make a suitable work area.

3) Preparatory activity:

a. plates with locking systems: use the metal probe in the handle to unlock it (take out split pin and pin to take out handle. See photo);

b. blocked plates: check if need that there is no gas and use steel hammer piece that would have been fully unscrewed from the handle to tap;

c. plates unworkable because of gas presence, same instructions as above but with bronze (yellow metal) hammer piece.

**Please note! Do not use a worn hammer piece: there is a sparking risk.*

4) After checking that the plate is free to be lifted and is unlocked, check the condition of the lifting handle. Position magnet at plate edge opposite hinge (or articulation line). Pull out split pin and magnet pin, position wheels inside plate area (hinge edge), replace pin and split pin in the most suitable hole.



5) Position handle-bar shaft so as to have the greatest leverage.

6) During the whole lifting operation keep your back straight, bending your knees when necessary.

7) Raise LIFTPLAQ® to turn and open plate about its hinge or articulation line.

8) After opening the sewer, drainage or services system the operator may clean the edges of the manhole itself to remove impurities such as earth, sand and pebbles. To do this take out split pin and retaining pin and use handle-bar shaft point to clean manhole edge.



9) Proceed in reverse sequence of point 7) above to close up plate.

10)

a. Detaching magnet: handle-bar shaft fully pulled out in extended position.

To detach magnet from plate, use lifting handle and lift until magnet detaches. During this operation, the handle-bars are pushed against the ground.



b. Detaching magnet in an easier way: using handle-bar shaft in retracted position.

To separate magnet from plate, put handle-bar shaft in retracted position, and use LIFTPAQ® lifting handle or body to pull up until magnet detaches itself. During this operation, the handle-bars are pushed against the ground.



Always position magnet on a plate while controlling LIFTPAQ® by the handle-bars.

11) The operator can remove the area marker cones and pack up the LIFTPLAQ®.

✓ **TELECOM TRIANGULAR PLATES:**

Using wheelbase expanders (optional) is necessary for safe working.



FITTING WHEELBASE EXPANDERS



Fitting 1

Fitting 2

Fitting 3

1) Roll LIFTPLAQ® along to the place of activity without forgetting to take all visual and suitable safety items (including fluorescent jacket).

2) If the place of activity is on the public highway or place of public passage, mark out the area with cones to make a suitable work area.

3) Preparatory activity:

a. **blocked plates:** check that there is no gas and use steel hammer piece screwed into position on the handle-bars to tap;

b. **blocked plates in the presence of gas:** same instructions as above but using the bronze hammer piece (yellow metal).



4) Commence by lifting out an end plate. To do this, position machine in front of or as near to the centre of gravity of the plate concerned, lift and roll.



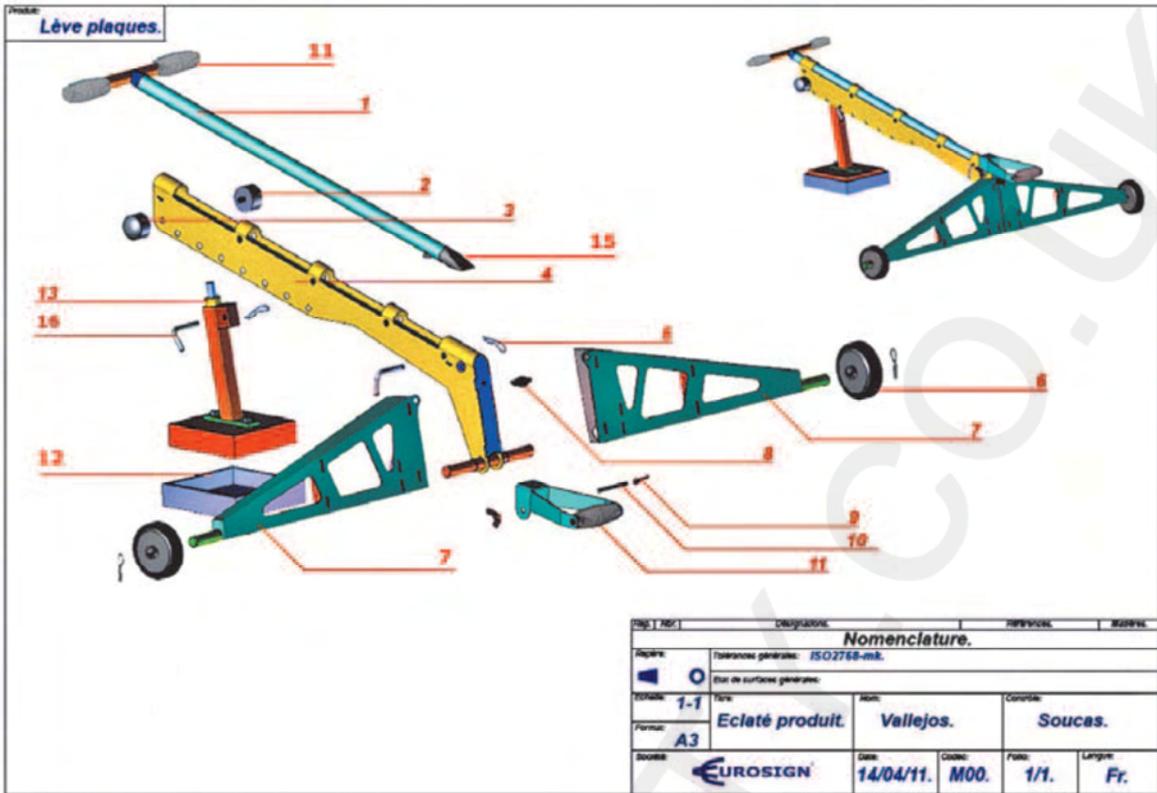
5) Continue by making a tour of the cavity and roll up to the plate nearest the hole.
Avoid stepping over holes or cavities.

6) Refer to pages 6 or 8 for how to detach the magnet.

MAINTENANCE, INSPECTION, STORAGE AND TRANSPORT

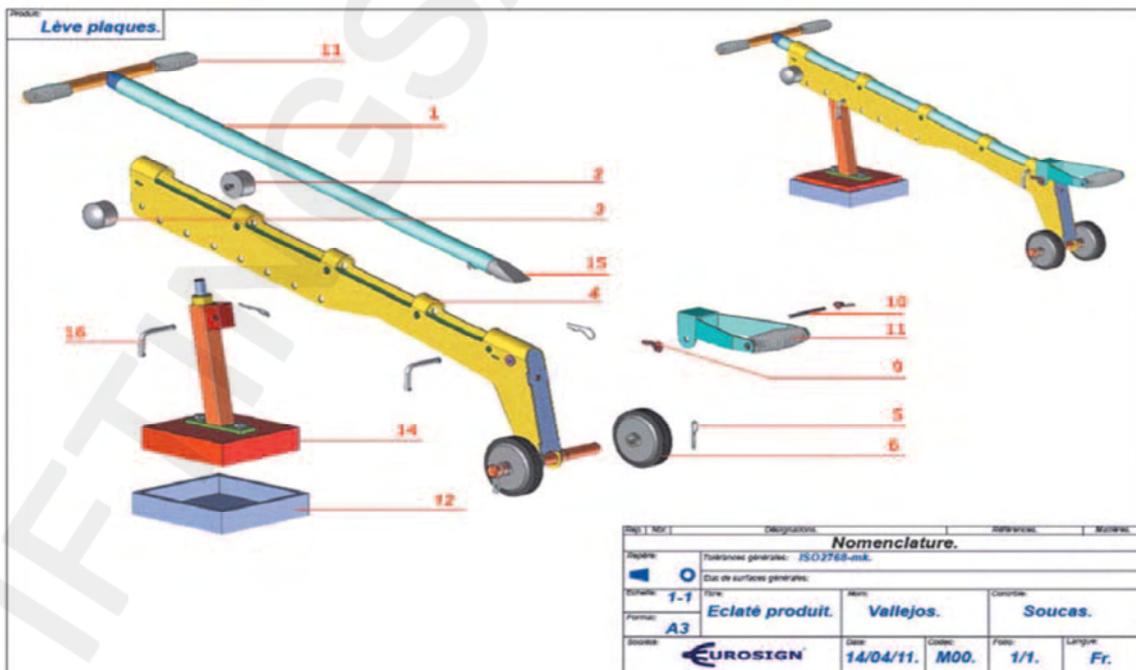
- Check that all pins and split pins are in place before each use. Check that the lifting handle is good condition.
- The magnet should always be protected and placed in its wooden transport box when being moved and stored.
- The LIFTPLAQ® does not need any particular maintenance.
- The LIFTPLAQ® can be transported and stored vertically to save space.





LIFTPLAQ list of terms

- 1: Handle-bar shaft - 2: Hammer pieces: brass or steel - 3: Hammer pieces: brass or steel -
- 4: Machine body - 5: Steel beta pin - 6: Wheels - 7: Wheelbase expander -
- 8: Butterfly nut - 9: Butterfly- 10: Threaded pin - 11: Handle-bars
- 12: Transport clamp - 13: Guide ring - 14: Magnet
- 15: Chisel point - 16: Angled pin with chain



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EUROSIGN SARL registered office 24, Bd de la Marine, 66510 Saint-Hippolyte,
declares that the machine described above complies with Machine Directive
2006/42 EC.

Machine: LIFTPLAQ®

Function: Plate lifter (dry and wet networks).

Serial N°:

Thomas GARCIA
Manager

Date:

Place:

