



LIFTILE

OPERATING MANUAL



SAFETY

For correct operation, read and make sure you understand this instructions manual BEFORE using equipment.



FOR

BREVETTI
MONTOLIT[®]
S.p.A.

Important

Read, understand, and observe the safety regulations and operating instructions before using this machine. Only expert and authorised personnel are allowed to use this machine. Call your dealer for information.

CONTENTS

1. General Safety Regulations	3
2. Technical specifications	8
3. Product features	9
4. Load capacity	10
5. Dimensions	11
6. Assembly instructions	13
7. Checks before each use	14
8. Functional testing	15
9. Work area inspection	19
10. Instructions	20
11. Transport instructions	21
12. Use of winches	21
13. Use of vacuum suction cups	22
14. Basic maintenance	23
15. Exploded diagram	24

1. GENERAL SAFETY REGULATIONS



This manual can only be put into practice by users who have read it carefully in all its parts.

Failure to follow the instructions and safety regulations in this manual can result in hazardous situations.

A. Do not use the machine

1. Unless you have read, understood and complied with instructions.
2. Unless the work area is clean and in order. Avoid using the machine in unstable conditions and in any unsafe conditions.
3. If you use parts that are not recommended by the manufacturer.
4. Correctly position the suction cups and the load (avoid unbalanced or unstable conditions).
5. Carefully check the machine before use.
6. Avoid inclined machine positioning.
7. Properly store the machine.
8. Regularly inspect the machine.

Machine repairs should only be carried out by qualified technicians. After completing repairs, the operator must perform pre-operating inspections again before use.

B. Qualified personnel

Only qualified personnel is authorised to install and use this equipment. Qualified personnel is persons authorised to move, install and use the machinery according to the Practical Safety Regulations configuration.

C. Correct use

This equipment can only be used in compliance with the parameters described in the technical specifications in this index. This equipment can be used correctly and safely only with careful and adequate management and maintenance.

D. Danger of falls

1. Do not lift any slabs that are not dry and clean.
2. Do not lift any slabs that are damaged with crevices or cracks as they may break during lifting.

E. Danger of overturning

1. Do not exceed the maximum indicated capacity.
2. Do not move the machine while a load is lifted or inclined.
3. Do not lift loads if specific supports have not been locked.
4. Do not place ladders or scaffolding on any part of the machine.
5. Do not replace machine parts with different components.
6. Do not induce horizontal stresses or add loads laterally to the machine by lifting or lowering a load.
7. Do not use the machine on a moving surface or a moving vehicle.
8. Do not use the machine in strong gusts of wind.
9. Make sure the working area is not at a higher level than the load to be moved.

F. Dangers of collision

1. Do not lift if the slab unless is not properly centred on the load frame.
2. Do not lower the load if there are obstacles in the area underneath.
3. Use common sense when moving the machine on a slope.
4. Do not move the machine during lifting.
5. **Do not stand under the load and do not allow personnel to remain under the load during all the handling stages.**
6. **Keep the work area free of obstacles and any personnel not involved.**
7. **Work area access allowed to operator authorised for handling only.**



G. Dangers of suction cups

1. Make sure the suction cup maintains its suction level.
2. If the red line of the vacuum suction pump piston is visible, this means that the suction cup has not reached a sufficient suction level to hold the slab securely.
3. Press the pump suction piston repeatedly until the red line is no longer visible.

H. Danger of lightning

1. This machine is not electrically insulated and does not provide protection in the event of contact or proximity to power lines.
2. Do not approach the machine with electrical lines.
3. Personnel should not touch or operate the machine until the power lines are off.
4. Do not use the machine as a base for welding works.
5. Keep a safe distance from power lines.

I. Dangers from improper use

Never leave the machine with an unattended load.

Unauthorised personnel can attempt to operate the machine without proper instructions, creating unsafe conditions.



J. Other safety requirements

1. Do not grasp the steel cable.
 2. Keep your hands and fingers away from the rotation module and other possible crushing points.
 3. Do not insert arms, hands or fingers in the rotation module.
-

2. Technical specifications

Max lifting height	246 cm (8 ft)
Max load capacity	250 kg (550 lbs) *
Dimensions	245 x 80 x 173 cm (96 x 31 x 68 inches)
Machine weight	457 kg (1,005 lbs)
Counterweight (each)	19 kg (42 lbs)

* see table pg.10

Specifications subject to change without notice.

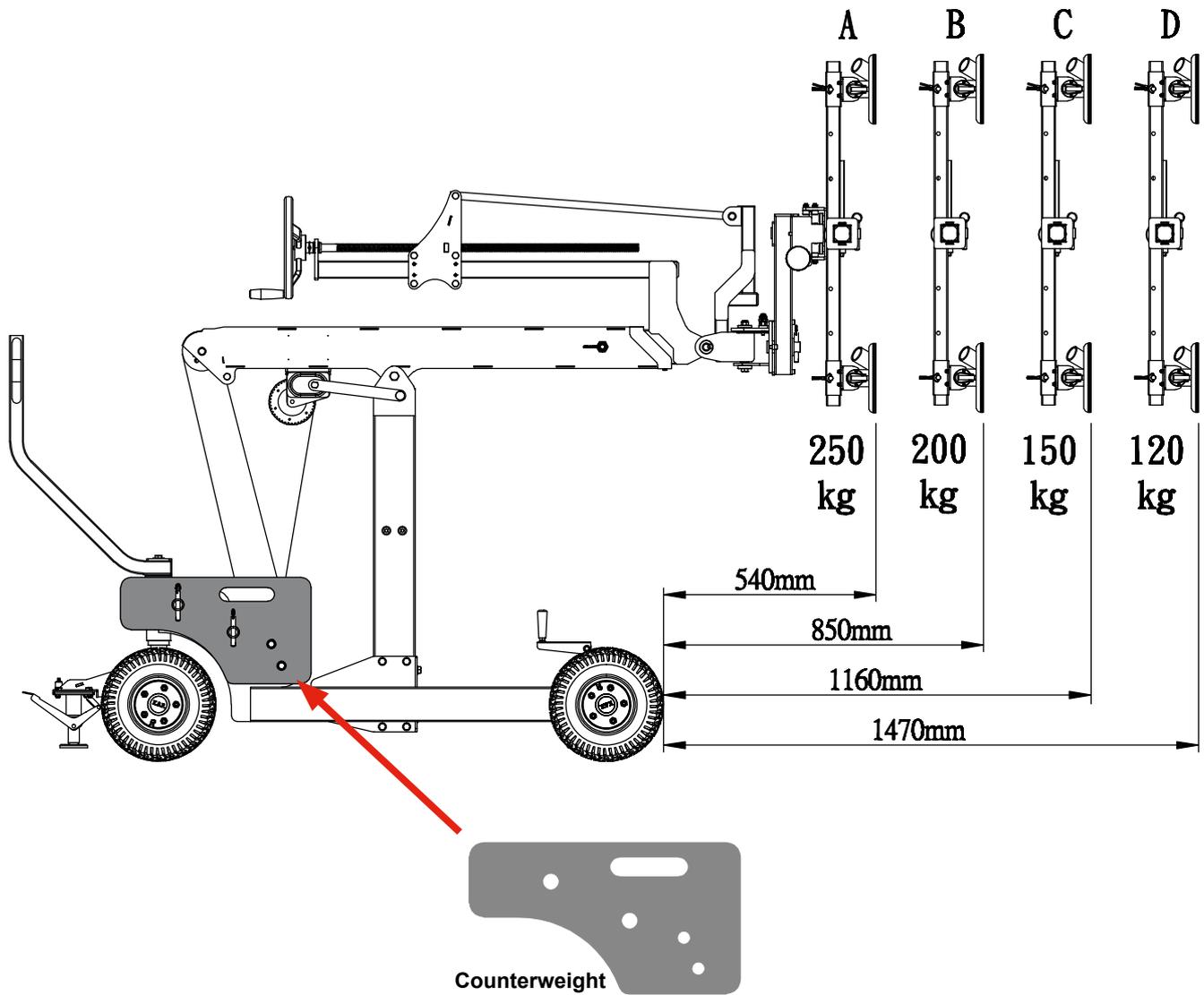
3. Product features

LIFTILE, with 8 suction cups in operation, is designed to lift slabs up to a maximum weight of 250 kg (550 lbs) and 246 cm (8 ft) in height. Speeds up procedures, allowing you to work in a safer work environment while also reducing fatigue and work stress.

- Lateral movement max 210 mm.
- Compact design, frame easily removable for transport and storage.
- Robust suction cup supports.
- Wheels designed for all terrains.
- Small size to facilitate handling in narrow passages (i.e. doors).
- Winches with self-braking system.
- 12 counterweight pieces, 19 kg each.

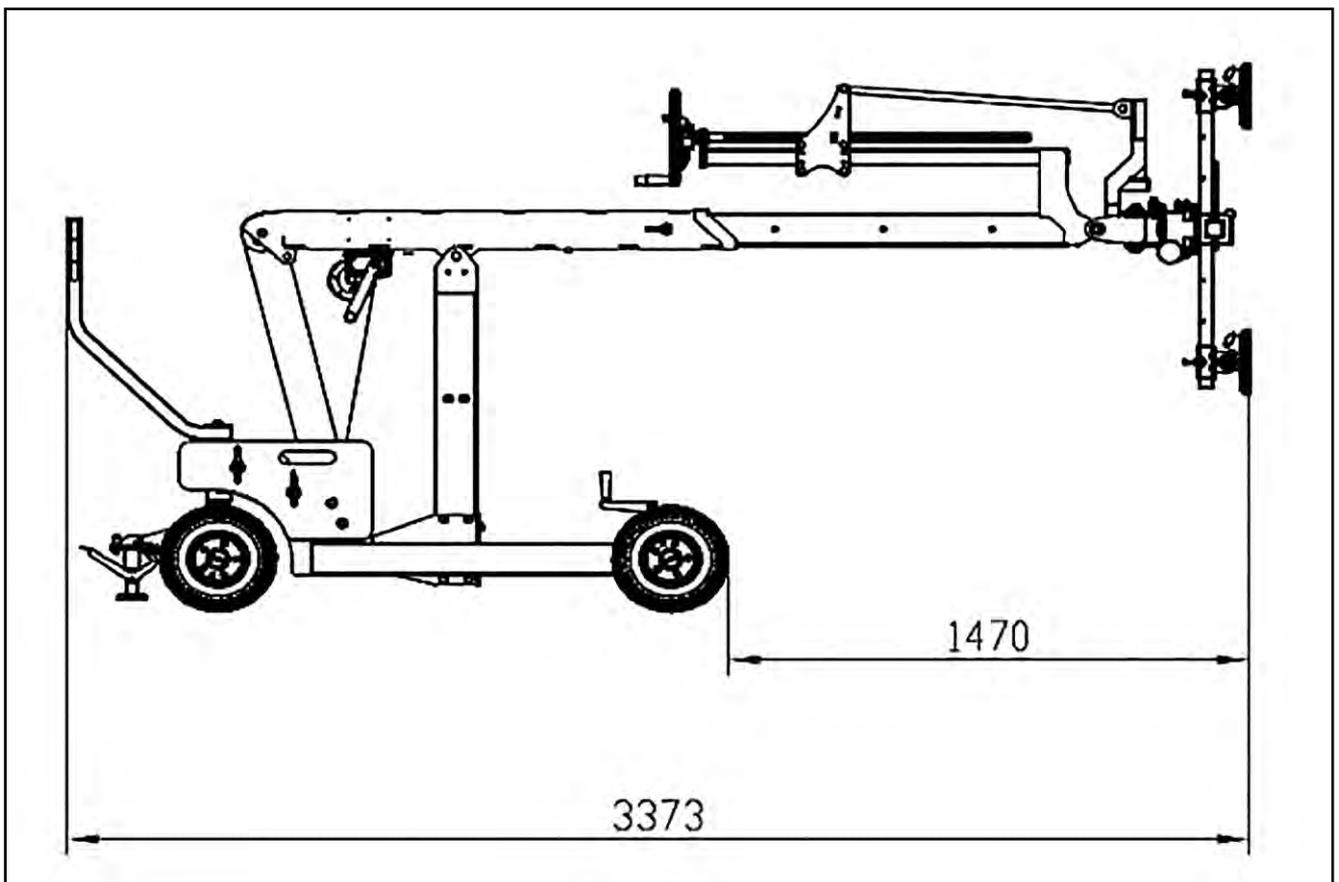
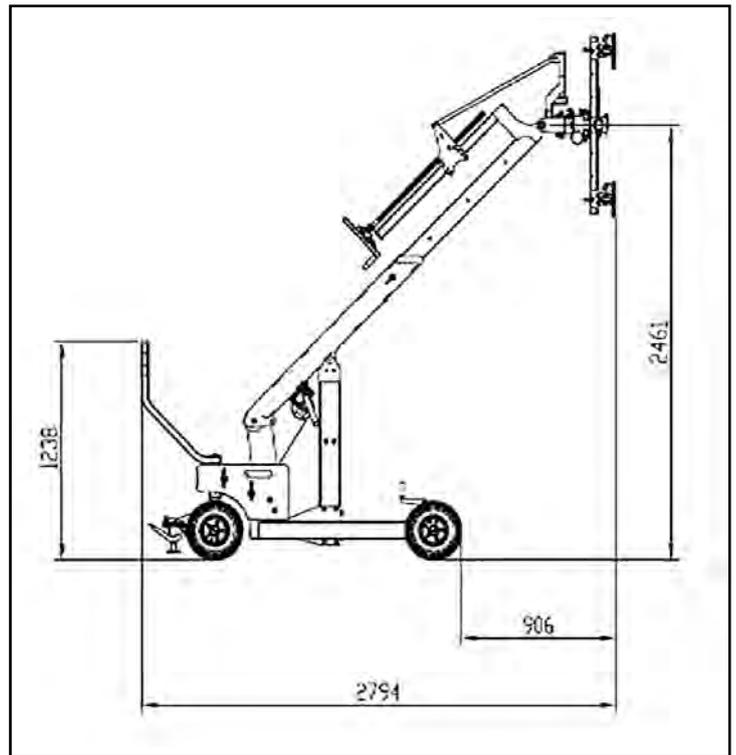
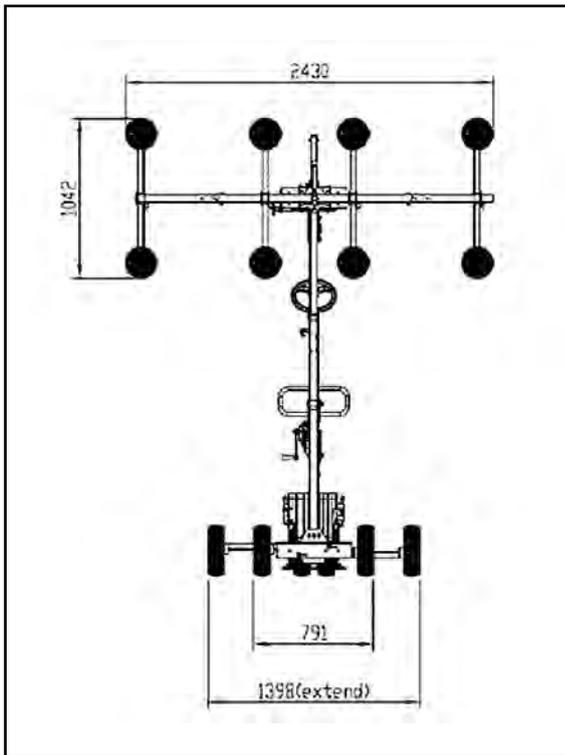
4. Load capacity

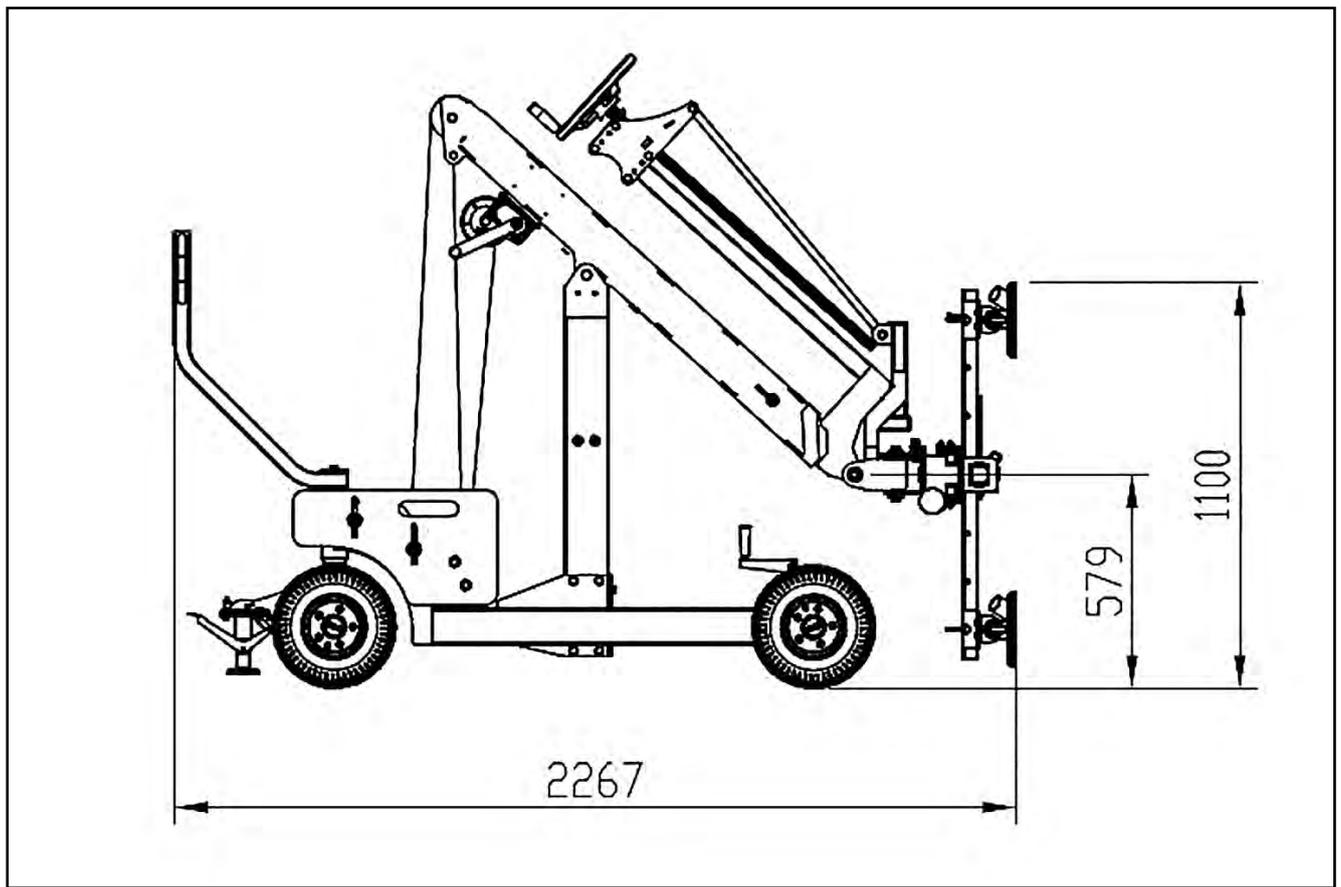
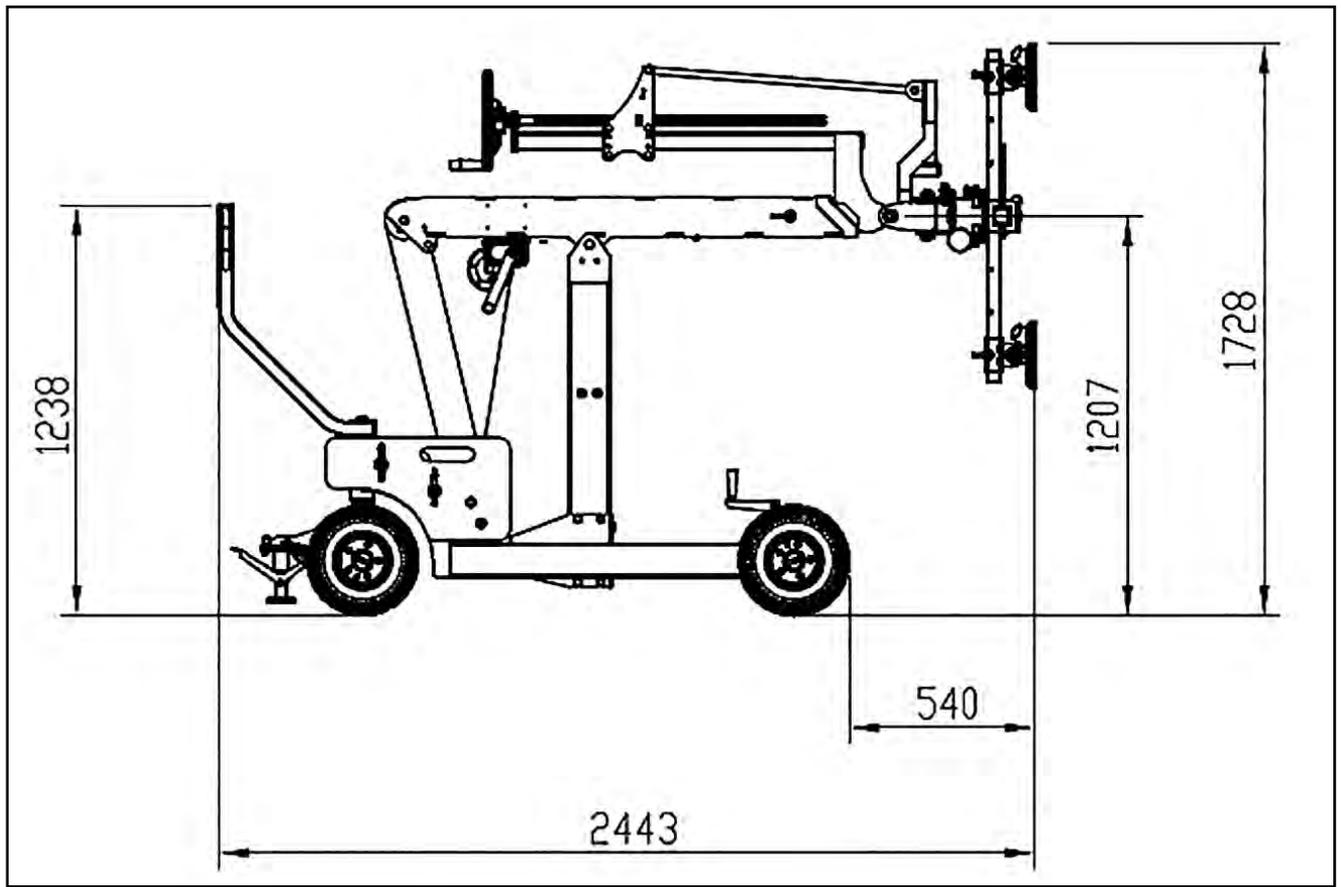
Load capacity depends on the number of set on **LIFTILE**.



# of counter-weights	Pos. A	Pos. B	Pos. C	Pos. D
4	90 kg (198 lbs)	64 kg (141 lbs)	49 kg (108 lbs)	40 kg (88 lbs)
6	135 kg (297 lbs)	97 kg (213 lbs)	74 kg (163 lbs)	60 kg (132 lbs)
8	186 kg (409 lbs)	129 kg (284 lbs)	99 kg (218 lbs)	80 kg (176 lbs)
10	232 kg (510 lbs)	161 kg (354 lbs)	123 kg (270 lbs)	100 kg (220 lbs)
12	250 kg (550 lbs)	200 kg (440 lbs)	150 kg (330 lbs)	120 kg (264 lbs)

5. Dimensions

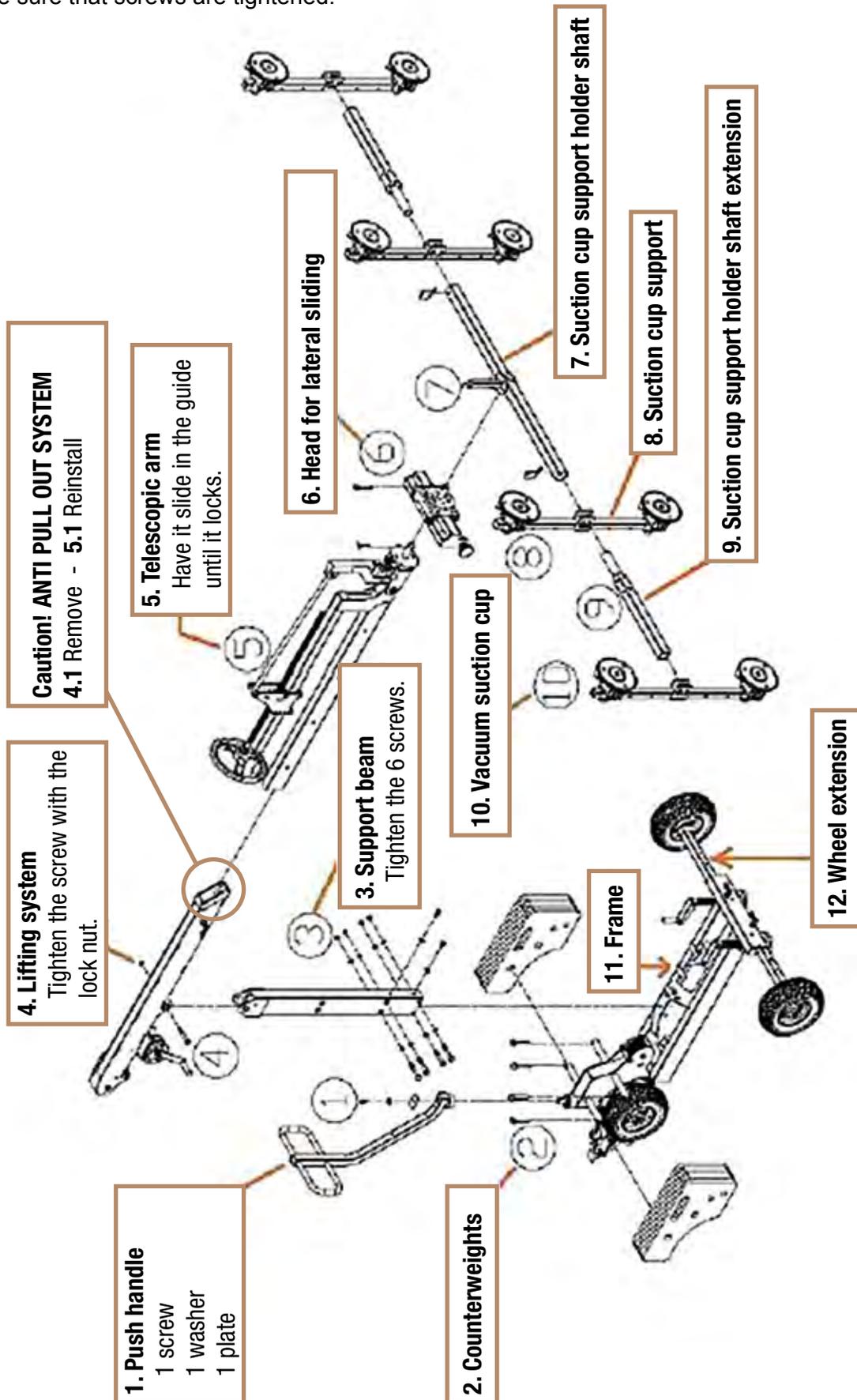




6. Assembly instructions

Please follow the drawing below.

Make sure that screws are tightened.



7. Checks before each use

Perform a visual inspection before each use to detect any damage or missing parts.

Never use a damaged or malfunctioning machine.

Only a qualified technician must perform repairs on the machine, based on the manufacturer's specifications. Once repairs have been completed, the operator must perform another inspection check before commissioning.

Never use without:

Having learned and put into practice the principles of safe machine operation contained in this operator's manual.

1 - Avoid any risky situations.

2 - Always perform pre-operating checks.

Read each paragraph before starting and make sure you have understood it fully before going to the next section.

3 - Perform a no-load test before using the machine.

4 - Check the work area.

5 - Do not use the machine for uses for which it has not been designed.

Before starting:

1. Make sure you have understood the instructions.

2. Make sure all stickers/plates are legible.

3. Check if the following components are damaged, missing or incorrectly installed:

- (1) Frame
- (2) Wheel extension
- (3) Lifting accessories
- (4) Steel anchoring cable
- (5) Steel cable and pulleys
- (6) Wheels
- (7) Vacuum suction cups

Run a full machine check to verify that:

4. There is no dents or damage.

5. There is no corrosion or oxidation.

6. There are no cracks in welds or structural components.

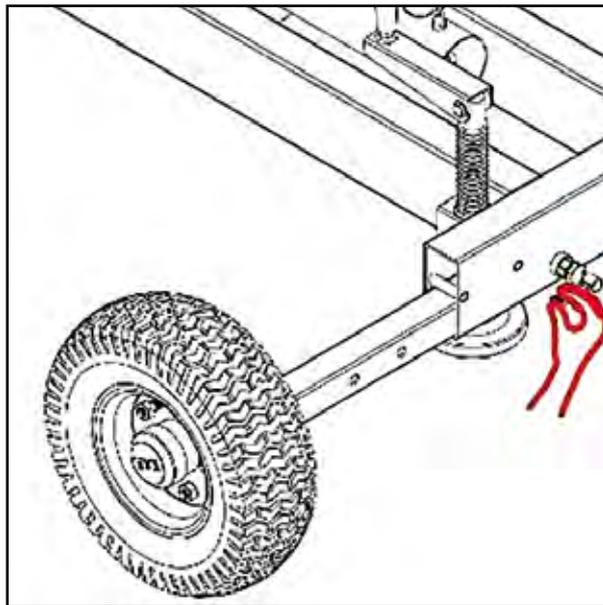
7. All construction components are present and all corresponding stops and pins are in place and properly screwed.

8. There are at least 3 cable windings on the drum winches.

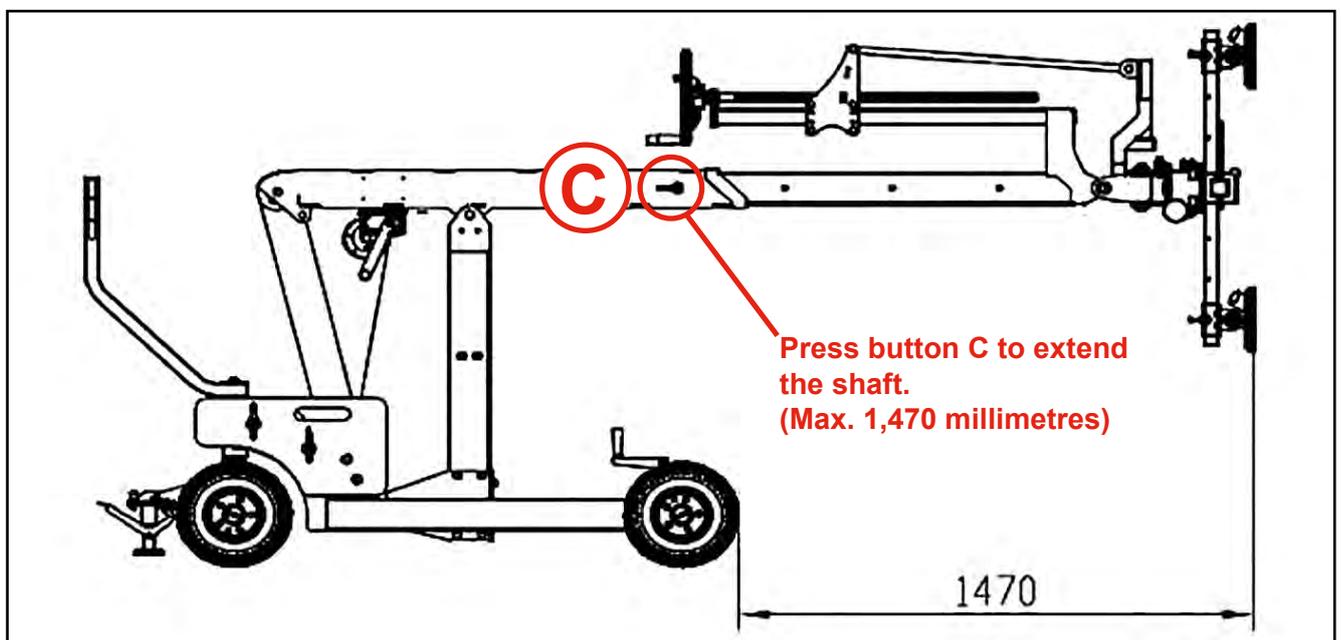
8. Functional testing

Tests are designed to detect any malfunction before the machine is commissioned. The operator must follow the step-by-step instructions to test all machine functions.

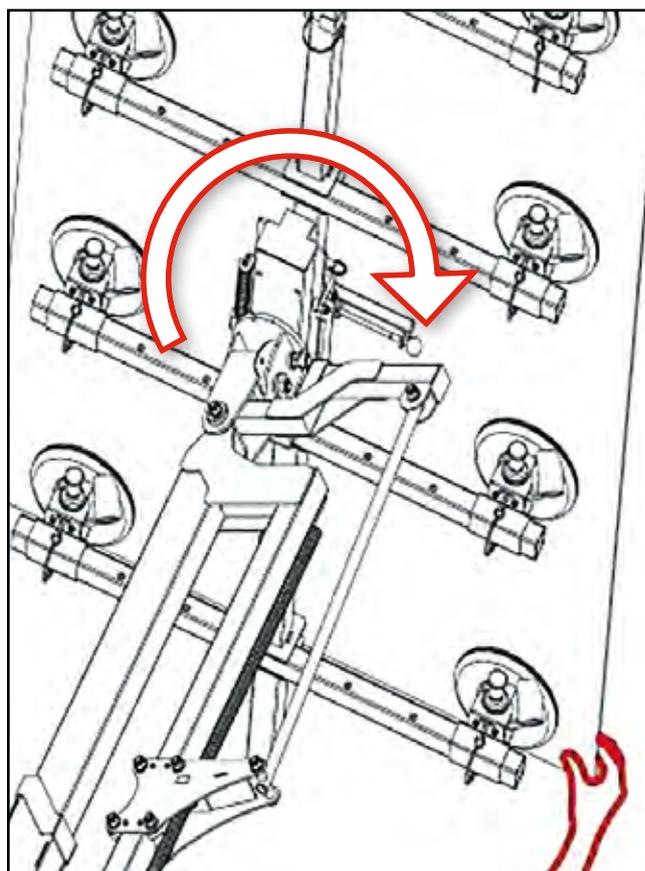
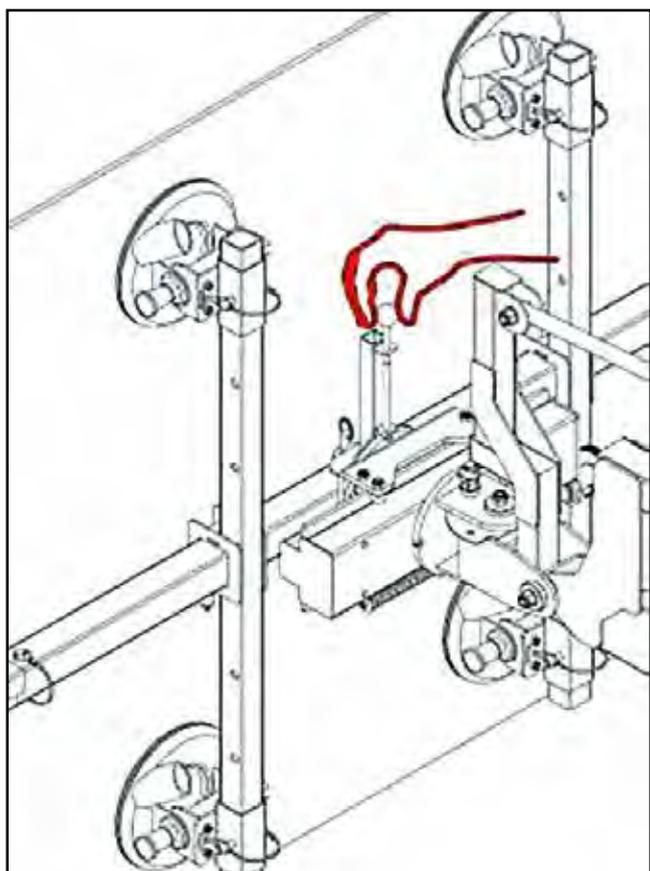
1. Choose a stable, flat, and unobstructed test surface.
2. Set the rear wheel lock brake.
3. Set counterweights according to the load capacity table on page 10.
4. For greater stability, adjust the wheel extension by releasing the knob.



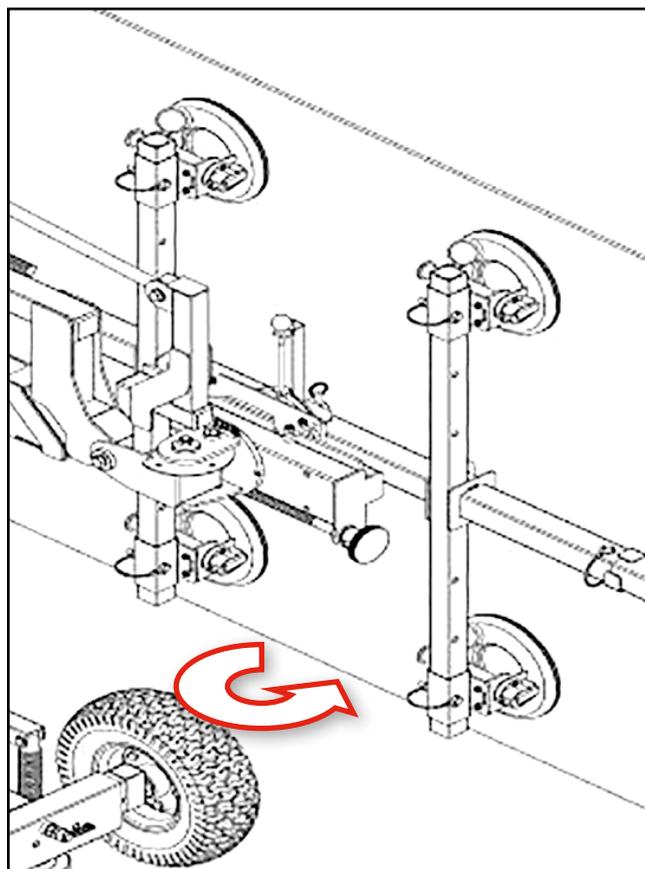
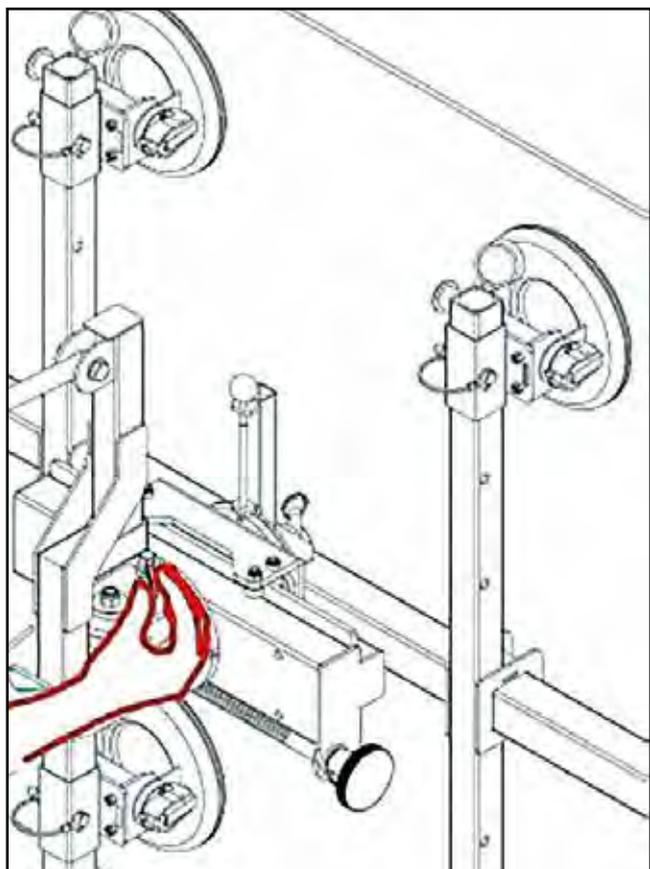
5. Release the knob as in step C, extend the sliding arm to set the length. Max extension up to 1,470 millimetres. Make sure that the knob has been properly locked.



6. Head rotation: pull the pin as in the figure and rotate.



7. Lateral rotation: pull the knob as in the figure and rotate.



8. Check that all locks are in position.

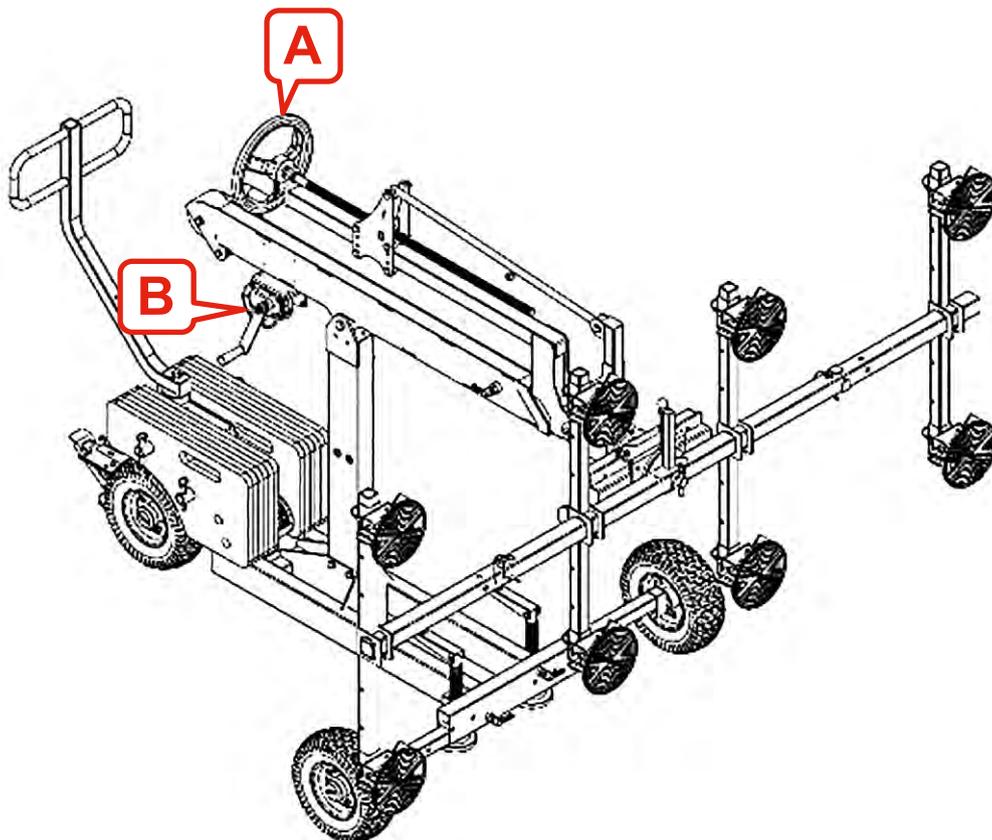
9. Place the frame with the suction cups on the slab and pump the pistons.

Verify that the vacuum indicator (red line) is not visible and that the vacuum gauge is not in the red zone. Always keep the vacuum at a safe level.

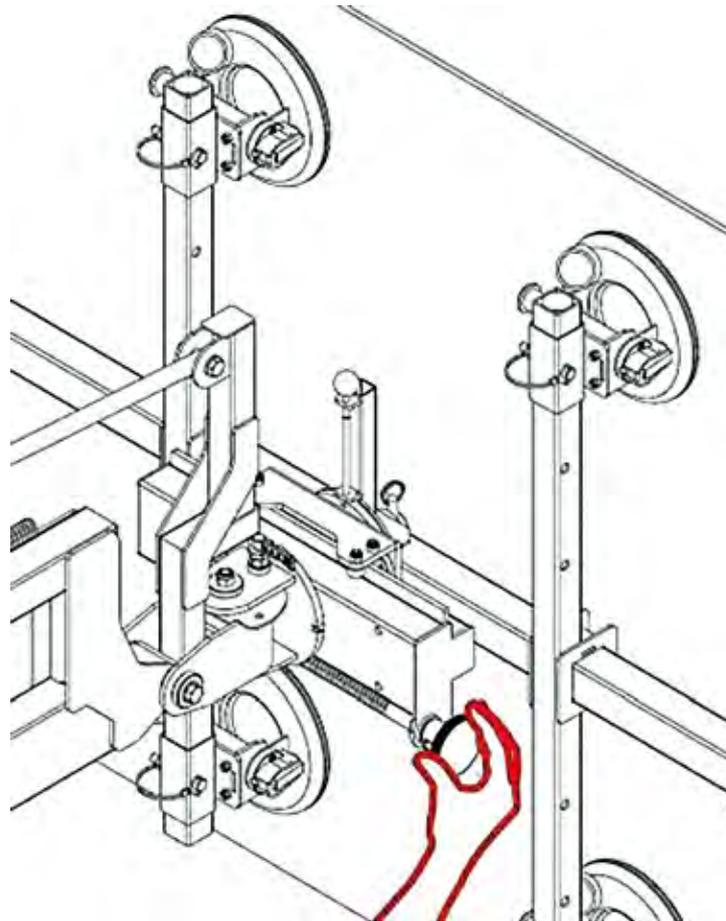


10. Rotate the handwheel as shown in point A to modify the angle.

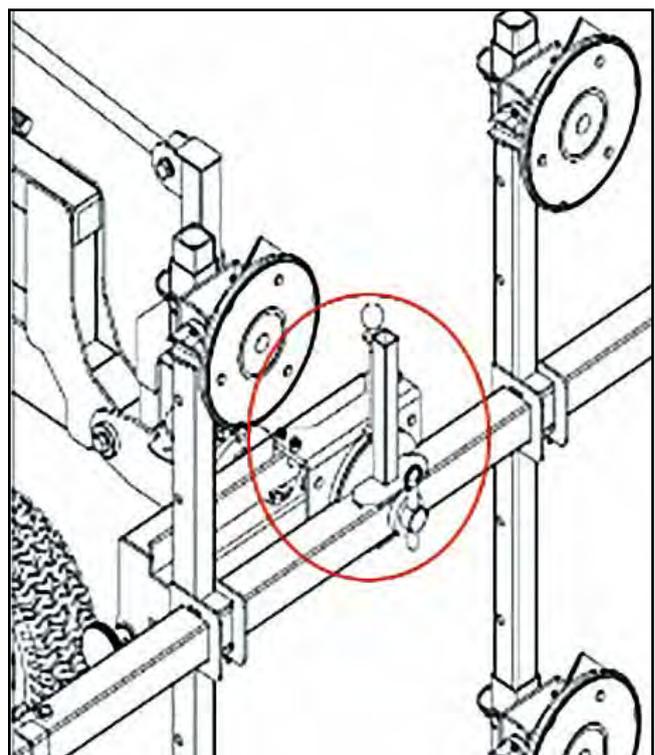
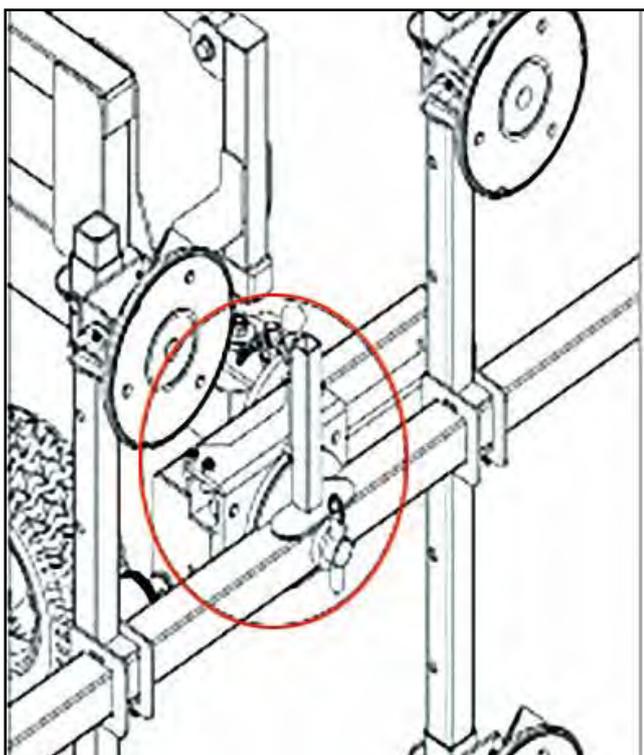
11. Rotate the winch as shown in point B, forward to raise or backward to lower, based on the desired working height.



12. Lateral movement up to 210 millimetres. Rotate the knob for lateral movement as shown.



Sideshift up to 210 millimetres.



9. Work area inspection

Work area inspection helps the operator determine whether the workplace is suitable for use with the machine. Inspection must be performed by the operator before the machine is positioned. The operator must be aware of potential hazards in the workplace, avoiding excess loads, and ensuring the correct installation and proper use of the machine.

Consider the following situations at risk and avoid them:

1. Slopes or holes in the ground
2. Bumps and obstacles on the ground
3. High voltage piping
4. Environments at risk
5. Grounds insufficiently stable to withstand all load forces imposed by the machine
6. Wind and bad weather
7. Other potential risk situations

10. Instructions

Use of the machine for purposes other than lifting slabs can cause danger. If several operators are expected to use the machine at different times during a workday, each operator must comply with all the safety regulations and instructions contained in this manual. Every new operator must therefore perform checks before commissioning and test the workstation before using the machine.

Moving the machine with a load

Move the machine without loads in the workplace. The machine must not be moved with a raised load. If you need to move the machine with a raised load, follow the safety rules as follows:

1. Make sure that the area is flat and unobstructed.
2. Make sure that the load is centred and secured with suction cups.
3. Avoid abrupt or violent starts and stops.
4. Move the machine with the necessary caution.
5. Make sure that the work area is free and only one handling operator is present.

Start-up

Choose a closed, flat, and unobstructed test surface.

Follow the procedures contained in functional testing on page 15.

Load lifting and lowering

1. Determine the weight of the load and the position of its centre of gravity. Check that the load to be lifted does not exceed the maximum load capacity.
2. Centre the load on the lifting support.
3. Raise or lower the load, rotating the winches forward or backward.

Incorrect load positioning can cause dangerous situations.

After each use

1. Make sure that the lifting arm is in the resting position.
2. Make sure that wheel extensions are retracted.
3. Protect suction cups with the appropriate cover.
4. Choose a safe place to store the machine.

11. Transport instructions

Use proper lifting techniques to load the machine on the transport vehicle, using at least two harnesses or fastening belts to hold the machine in transit.

12. Use of winches

Winches must be used according to the instructions given. Failure to follow the instructions can result in danger.

Check the condition of the lifting components before each use. Do not use if you have any doubt about their operation.

Caution, the following are prohibited:

1. Letting the load oscillate during lifting or lowering.
2. Keeping the load suspended beyond the time required for the operation.

Always keep a minimum of 3 cable windings on the drum.

Rotate the winch by hand only. This winch is not designed to work with any type of motor. Never change the pulley.

Never use the winch with a damaged or frayed cable.

Suggestions

Before each use, make sure it is in perfect condition.

Proceed as follows: slightly raise the load and release the handle to test its self-braking function.

Stop load lifting or lowering by interrupting winch rotation.

It is imperative to make sure that the steel cable is guided during its winding and that no cable crosses around the winch drum.

The winch must lock automatically.

Winch maintenance

Never work with a damaged or frayed cable.

Periodic cleaning ensure longer life.

Keep the toothed wheels and bearings well-greased.

The winch must be inspected at least once a year by expert personnel.

13. Use of vacuum suction cups

Never use suction cups with a damaged rubber part.

Do not attempt to remove the suction cups with sharp objects or tools.

Never exceed the maximum permissible load.

Never expose the suction cups to sunlight for prolonged periods.

Firmly secure to the surface of the slab and pump the piston to the proper suction. Giving 6-8 pumps until the red safety line is no longer visible on the piston.

If more than 6-8 pressures are required, immediately check both the surface of the slab and the suction cup.

During use, check whether the red safety line on the piston is visible. If so, pump immediately until the suitable suction level is reached.

To release the grip, press the button at the end of the piston.

After use, protect the suction cup with the appropriate covers to avoid dirt and damage to the rubber disks.

Since these safety instructions cannot take into account the specific conditions of each type of use, the user must check if the suction cup is suitable for the desired type of application before each use. Features not specified in our manual, in documentation or operating instructions are not guaranteed.

We do not assume any liability for failure to comply with the above safety instructions.

Vacuum suction cup maintenance

Use a cloth soaked in water, soap or alcohol to clean the rubber disks. It is very important to ensure that no liquid enters the felt disk or the pump.

Consistently comply with the following rules to ensure maximum safety during use:

Make sure that the vacuum suction cups are functioning properly before each use.

Pay particular attention to the rubber disk, which must be smooth, free of defects and must not be damaged.

The suction device (suction cup) should only be used for short periods of lifting. In case of prolonged lifting, periodically check suction cup adhesion.

Replace immediately if adherence is no longer satisfactory.

Use vacuum suction cups on surfaces that are smooth, watertight, clean, dry and free from oil and grease, as porous surfaces reduce suction capacity.

Suction cups and especially rubber disks must always be clean and free from oil or grease.

Damaged rubber disks or disks with reduced load capacity should be replaced immediately.

14. Basic maintenance

The lifting device must be checked 2 times per year.

Maintenance must be carried out by trained personnel with experience with this type of lifting device.

Frame, beam and support

Check the beam and frame to detect any traces of rust and cracks.

Check screws and nuts.

Check the conditions of pulleys.

Steel cables

Check the cable for any cuts and immediately replace damaged cable.

Do not use **LIFTILE** if the cable is damaged or frayed.

Do not lubricate the cable.

Rotation head

Check the conditions of its pin and check for any rust.

Wheels

Check for wear on rubber and check pressure.

15. Exploded diagram

