POP UP PRODUCTS LIMITED

USE AND MAINTENANCE MANUAL

PUSH-AROUND MOBILE ELEVATING WORK PLATFORM

IQ LIFT

PRO 7 ACTIVE

UK CA

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE MACHINE

IQ LIFT PRO 7 ACTIVE is a type 1 manual platform. This means that it can move only when the elevating work platform is in a transport position.
IQ LIFT PRO 7 ACTIVE manual platform is designed and engineered by Gromet SRL to provide maintenance operators with a safer alternative to ladders.
A mechanism with a gas spring and a mechanical reducer allows the operator to lift the machine with the minimum effort through a hand-crank.
IQ LIFT PRO 7 ACTIVE is manually elevated by the operator and does not need batteries or charge systems to work.
IQ LIFT PRO 7 ACTIVE can be used exclusively indoors, away from wind loading and on flat flooring. It can be used in hospitals, food production plants, pharmaceutical plants, industrial plants for maintenance purposes, construction sites, and for shopfitting.

This machine can be used for other applications if the operating parameters indicated in this manual are adhered to.

1.2 USER'S RESPONSIBILITY

- The product described in this manual must be used by trained personnel who must attend a course on works at height. Personnel must learn how to use, service and handle the machine under safe conditions.
- All trained operators must read this manual thoroughly and understand its content. Operators must also know the occupational safety laws in force.
- Personnel must be informed about safety issues and use Personal Protection Equipment (PPE) to protect people, the machine and the surrounding environment.
- Only using the machine correctly can ensure long-lasting, effective and safe operation.
- All rights reserved. No part of this manual may be translated, reprinted, reproduced or distributed in any form without the prior written authorisation of POP UP Products Ltd.
POP UP Products Ltd reserves the right to amend or update this manual without prior notice.

1.3 WARRANTY

POP UP Products Ltd. issues a Warranty Certificate valid for 12 months from the invoice issue date.
The customer must thoroughly read the instructions in this technical manual and the conditions indicated in the warranty certificate.
POP UP Products Ltd. undertakes to replace or repair, free of charge, every faulty part or component that the end user believes it results from production or material defects within the warranty period, except for the following cases:

- The telescopic upright is a sealed unit. The warranty becomes null and void if it is opened in any way.
- Defects resulting from negligence, improper use or unauthorised modifications.
- Damage resulting from improper use, a fall or failure to comply with transport, storage, installation, loading or user instructions.

1.3 WARRANTY CONTINUED

- Any modification, addition or repair made by people other than the manufacturer or authorised companies.
- Costs for shipping the platform to the manufacturer or authorised agents (and back) for repairs or inspections following a compensation request for any machine or component.
- Material and labour costs for restoring, repairing or replacing worn components.
- Defects resulting from the use of non-standard or additional parts or damage or wear resulting from the use or installation of such components.

1.4 AFTER-SALES SERVICE

After commissioning your IQ LIFT PRO 7 ACTIVE, you can contact POP UP Products Ltd. after-sales service for:

- Problems during operation
- Supply of spare parts
- Inspections and repairs.

Please provide the following data (see also 1.6 Machine identification):

- Machine name
- Serial number
- Description of the problem and parts involved

1.5 WHO IS THIS MANUAL FOR?

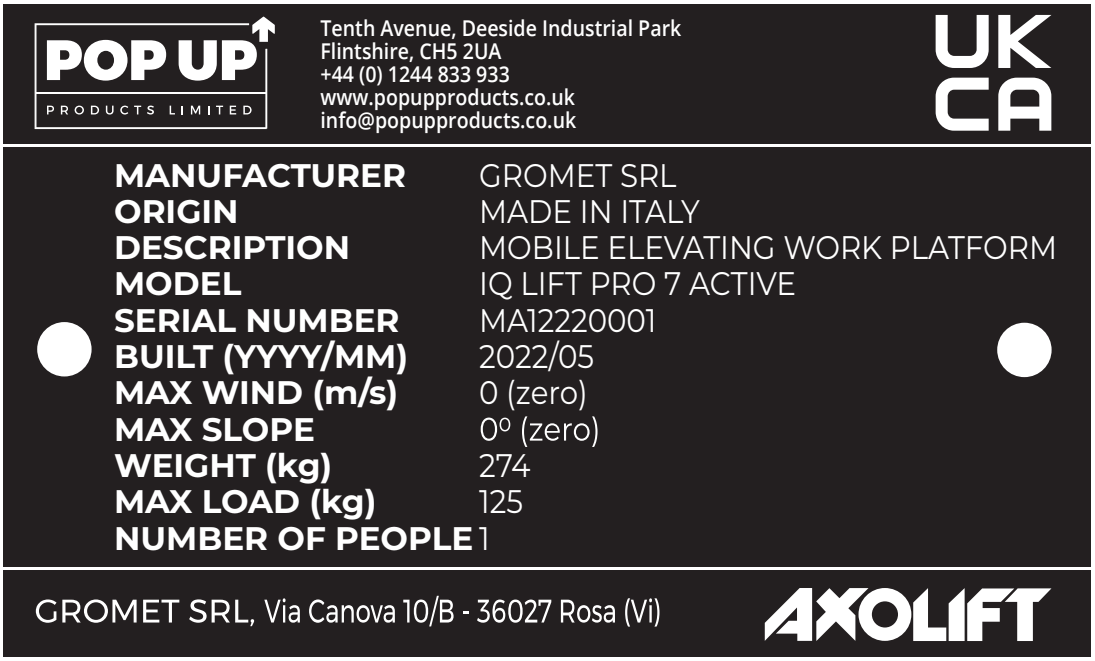
This use and maintenance manual is for operators and service engineers who have been authorised and trained for using and servicing the machine.

All users must read and understand this manual and comply with its instructions.

This manual specifies the tasks of each user.

1.6 MACHINE IDENTIFICATION

These instructions refer to IQ LIFT PRO 7 ACTIVE, which carries the plate below with the following data:



1.7 PERSONAL PROTECTION EQUIPMENT REQUIRED

The user must wear the following PPE:

1) Restraint Harness (Where applicable)

2) Safety shoes

3) Helmet

4) Gloves (Where applicable)

1.8 UKCA DECLARATION OF CONFORMITY

This machinery fulfils all the relevant provisions of the Supply of Machinery (Safety) Regulations 2008 (SI 2008/1091) as amended (SI 2011/1043, SI 2011/2157 SI 2019/696), BS EN 280:2013 + A1:2015 and BS EN ISO 12100:2010. A copy of the UKCA declaration of conformity can be found in the document tube attached to the machine.

1.9 CONTENT OF THE MANUAL

This manual and attached documentation provide:

- General information
- Safety information
- Description of the machine and operation of its parts:
  - Description and characteristics
  - Transport and installation
  - Operation
- Maintenance and troubleshooting
- Instructions for interrupting the service, storing, disassembling and disposing of the machine
- List of the attached documentation, such as diagrams, drawings and documentation of the installed components.

1.10 INTENDED USE

Lifting people and equipment in closed, wind-free environments and on flat flooring.

Users must have completed courses on how to use MEWPs and work at height.

1.11 ACOUSTIC AND SOUND PRESSURE

Declared noise emission value:

Referenced technical standards: UNI EN ISO 3744: 2010 and UNI EN ISO 11201: 2010
Manufacturer: Gromet S.r.L.
Type: Manual Platform
Model: IQ LIFT PRO 7 ACTIVE
Serial number: MA0120001
Year of manufacture: 2021
Operating conditions: Elevating and lowering the platform

DECLARED SOUND EMISSION VALUES
in accordance with UNI EN ISO 4871: 2009

Weighted sound power level A, L_{wa} (fif. 1 pW) in decibels	**78,0**
Uncertainty K_{wA}, in decibels	**4,0**
Weighted emission sound pressure level measured A, L_{pA} (ref. 20 µPa) in the operator's position, in decibels	**75,0**
Uncertainty K_{pA}, in decibels	**4,0**

1.12 VIBRATIONS

Declared vibration emission value:

Referenced technical standards: UNI EN ISO 1032:2009 and UNI ISO 2361:2014
Manufacturer: Gromet S.r.L.
Type: Manual Platform
Model: IQ LIFT PRO 7 ACTIVE
Serial number: MA0120001
Year of manufacture: 2021
Operating conditions: Elevating and lowering the platform

DECLARED VIBRATORY EMISSION VALUES
in accordance with UNI EN I12096:1999

Vibratory emission value measured, a_w in m/s^2	**0,14**
Uncertainty K, in m/s^2	**0,03**

2. MACHINE SPECIFICATIONS

The main specifications of the IQ LIFT PRO 7 ACTIVE can be found below:

Dimensions	
Working Height (maximum)	4.2m
Platform Height (maximum)	2.1m
Stowed Height	1.68m
Ground Clearance	15mm (min) to 85mm (max)
Overall Width	0.76 m
Overall Length	1.16m
Work Platform	0.71m x 0.58m
Guard Rail Height	1.1m
Toe Board Height	150mm
Platform Entrance	0.41m
Wheel Base	0.97m
Wheel Track	0.72m
Tyre Size (Solid, Non-Marking) - Front	205mm
Tyre Size (Solid, Non-Marking) - Rear	125mm
Maximum number of lift cycles	150,000

Rated Load	
Lift Capacity	125kg (1 person + 45kg tools and materials)
Horizontal/Manual Force	200 N

Floor Loading	
Machine Weight (Unloaded) (Approx.)	274kg
Maximum Wheel Pressure — Contact Point	3.07Mpa

Environmental limitations	
Wind	Indoor Use Only: 0 km/h
Rated Slope	0.0°
Temperature	-20° C- to 40° C
Lift/Lower Speed	18 s / 20 s

3. SAFETY DOS AND DON'TS

Only qualified operators may operate this machine

ALWAYS	read and understand the Operation and Safety Handbook before operating.
ALWAYS	understand all decals and warning labels on the machine.
ALWAYS	prevent unauthorised use; when machine is not in use, remove key.
ALWAYS	wear necessary approved personal protective equipment (PPE), i.e. head gear.
ALWAYS	report any misuse of equipment to proper personnel.
NEVER	work on platform if your physical condition is such that you feel dizzy or unsteady.

Use machine only for purposes for which it was intended.

ALWAYS	distribute load evenly over the platform area
NEVER	use the lift as a crane (by suspending a load from the platform).
NEVER	exceed the load capabilities of the platform. (See the "Product Description" section of this handbook)
NEVER	use machine as electrical grounds for arc welding.
NEVER	allow a third party to enable the hand-crank from outside the platform.

Check job site for unsafe working conditions.

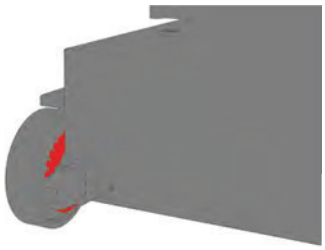
ALWAYS	watch out for others. Keep others clear of operating platform.
ALWAYS	avoid contact with fixed (buildings, etc.) or moving (vehicles, cranes, etc.) objects. Check work area for overhead obstructions or possible hazards.
ALWAYS	follow any applicable national traffic regulations.
ALWAYS	be on hard level surface before elevating
ALWAYS	maintain a clearance between any part of the machine, or its load, and any electrical line or apparatus. Follow local power line clearance regulations.
NEVER	allow others to pass under a raised platform or position the platform over someone.
NEVER	use outdoors. Lift is not designed for windy conditions or electrical storms.
NEVER	operate on incline or uneven surface.
NEVER	operate machine near power lines. The platform and enclosures are not insulated.
NEVER	move the machine on a slope steep enough that the machine may become uncontrollable.

Equipment is only as safe as the operator.

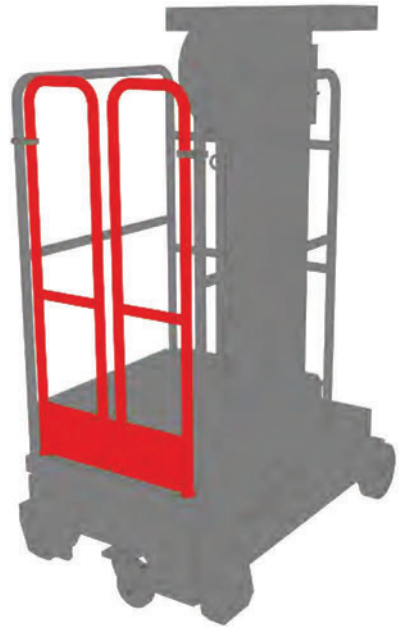
ALWAYS	make sure entry gate is secured before operating machine from the platform.
ALWAYS	secure tools and materials.
ALWAYS	maintain a firm footing on the platform floor and work only within the platform area
NEVER	use ladders or scaffolding on the platform to obtain greater height.
NEVER	enter or exit platform while machine is in motion.
NEVER	mount or dismount a raised platform.
NEVER	move the machine when in the elevated position.
NEVER	move the machine with a person on the platform.
NEVER	belt or tie off to an adjacent structure.

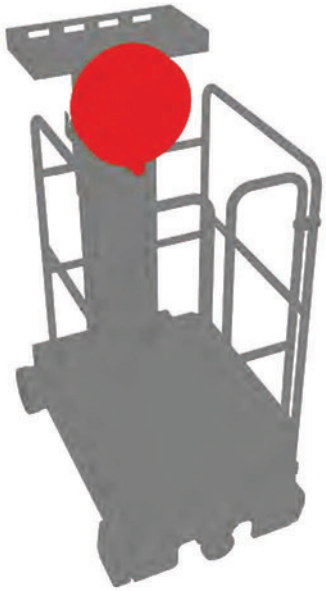
Before operation, ensure that the machine is properly serviced.

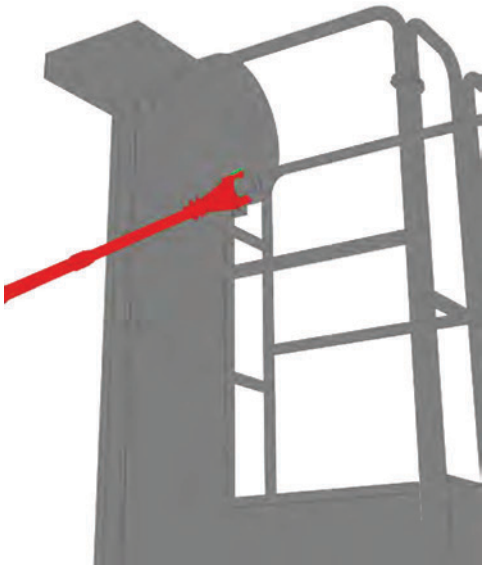
ALWAYS	perform inspections and preventative maintenance at the recommended intervals. (See section 6. of this handbook)
ALWAYS	use original parts if replacing a component. The use of non original parts will void the warranty.
NEVER	attempt to carry out maintenance on this machine unless you have been fully trained and authorised to do so.

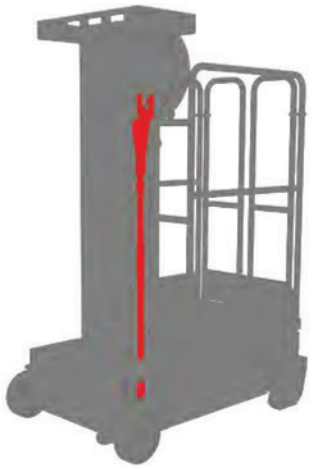
	Front auto-braking wheels The front wheels automatically lock when the platform is elevated.
	**Front braking unit** The front braking system is designed to brake the front wheels when the platform is lifted.
	Rear plunging castor unit This castor unit is springloaded and will drop the machine onto the rear outriggers, which rest on the ground and stabilise the machine (see below) once the operator, steps onto and enters the platform. The castor is also a swiveling type and has a foot operated brake which should always be engaged before entering the platform.
	Rear outriggers When the operator steps into the platform, the rear outriggers rest on the floor to provide stability.

	Spirit level The spirit level allows the operator to check whether the floor is horizontal or not before elevating the platform. The operator should not elevate the platform if the spirit level does not indicate a flat surface.
	Base unit This unit consists of the machine frame on which all components are mounted. The base unit is also fitted with fork lift pockets to allow the lifting of the machine with a fork lift truck.
	Platform / Handrail The operator accesses the platform through the pivotting gates, which close automatically once released. The operator is surrounded by handrails which provide a safety cage while the operator works on the platform.

	**Platform Gates** The operator enters the platform through these gates. They open inwards and are spring loaded to close behind the operator.
	Restraint Harness Attachment Point This attachment point can be used by the operator to clip their restraint harness onto.
	Mast Unit The mast unit contains the ascent and descent mechanism.

	**Hand-crank** To elevate or lower the platform, the operator must pull the hand-crank knob towards the gate and turn the hand-crank clockwise to ascend and ant-clockwise to descend.
	Capacity limiter and maximum vertical extension stop The retention system of the steel wire rope inside the platform activates the capacity limiter and prevents any vertical travel should the following conditions occur: - The maximum capacity (125kg) is exceeded - The steel wire rope breaks The locking mechanism prevents the hand-crank from rotating until the overload is removed. If the rope breaks, further elevation is prevented but the platform can be lowered.
	Tool tray The tool tray can be used to accommodate tools or materials to a capacity of 20kg. The tool tray also incorporates tool tethering slots in the front face of the tooltray.

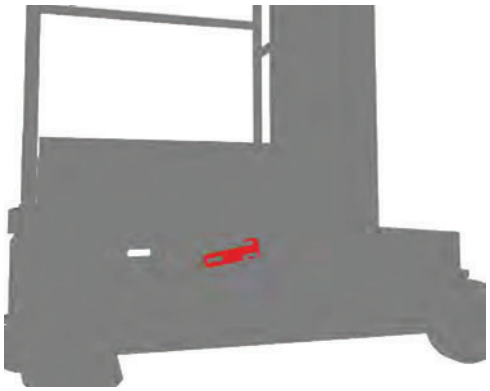


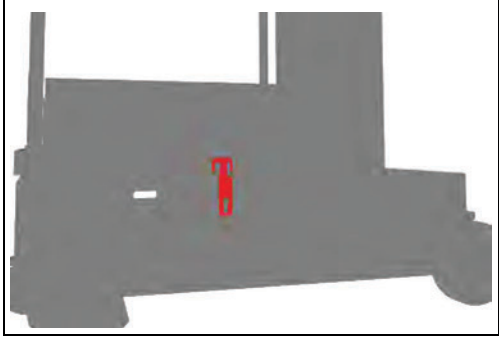


Safety device

This device allows an operator on the ground to rotate the platform drive hand-crank, if for example the operator has become incapacitated, for any reason (e.g. illness of the operator themselves) and unable to bring the platform back to ground level by themselves..
By extending the telescopic handle, the operator on the ground hooks the handle of hand-crank with the spring loaded catch, shown in the image on the left in green. This allows the platform hand-crank to rotate freely. The operator on the ground is able to rotate the hand-crank and return the platform to the ground position.

After being used, the device must be returned to its mounting and secured for possible use in the future.





Transport safety hook

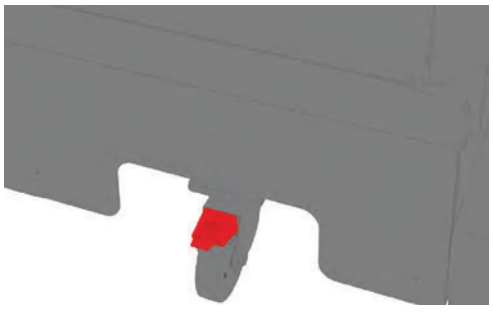
This device, consisting of a hook, is a safety device securing the platform to the base unit. The hook can be placed in the transport position when the machine(s) are loaded onto a truck or in a van.

ATTENTION!

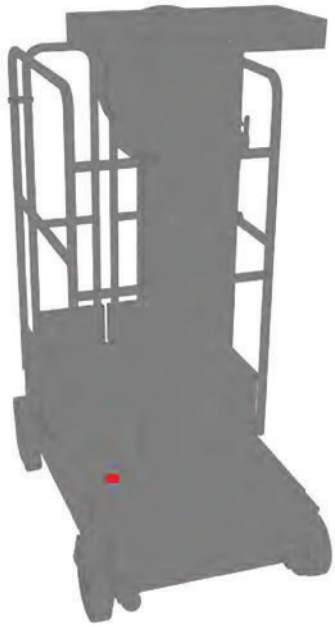
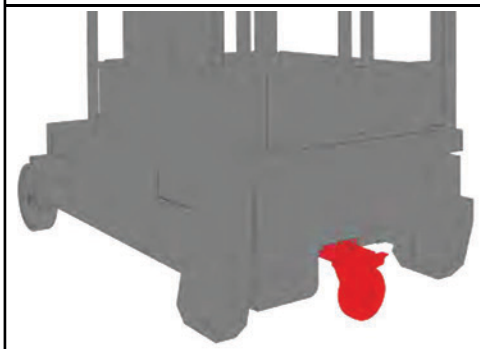
Before using the machine make sure the hook is positioned as shown in Fig.1

When transporting the machine place the hook to its safety position as shown in Fig.2

5.1 PRELIMINARY CHECKS

	Step 1. Visually inspect the machine to make sure that its various components do not show signs of damage. Pay special attention to the platform structure, mast unit and the front and rear wheel unit.
	Step 2. Ensure the wheels (both the front ones and the rear swivel castor) are not damaged. Check the wheels to identify damage and make sure they rotate freely. Ensure the tyres do not have cuts or wear signs deeper than 4 mm. The front wheels have a diameter of 205mm, whereas the rear one has a diameter of 125 mm. Ensure the nuts that lock the rear wheels are not loose.
	Step 3. 1.Ensure the axle bolts on both the front and rear wheels are present and secured correctly. 2.Ensure the bolts holding the front braking locking discs are present and secured correctly.
	**Step 4.** Ensure the foot operated brake on the rear swivelling castor engages correctly and prevents movement of the wheel.

5.1 PRELIMINARY CHECKS

	**Step 5.** Ensure the spirit level is not damaged and that the air bubble is centred (the machine must be positioned on a perfectly flat surface).
	Step 6. Ensure the gates open inwards and close automatically.
	**Step 7.** Ensure the swivel castor is not loose or bent. Once satisfied, press the brake foot pedal to lock the wheel and climb into the platform.

5.1 PRELIMINARY CHECKS

Step 8.

Once inside the basket, check the operation of the hand-crank handle. To do so, pull the hand-crank knob. Once released, the knob should return to the lock position. Repeat this operation but, this time, turn the hand-crank clockwise with the knob pulled. The wheel should rotate freely. Turn it anticlockwise to move the basket downwards.

Please ensure this test is carried out in an area with sufficient headroom to allow the platform to be fully raised.

Step 9.

Ensure the capacity limiter is secured to the mast cover.

Step 10.

Visually check the welds of the handrails, gate and those between the handrails and the mast unit. Welds must be intact. If they show cracks or detachments, quarantine the machine and report the fault.

5.2 USING THE MACHINE

Before using the machine please observe the following:

1. The machine MUST be used indoors and not exposed to wind.

2. The machine has been designed to operate at a wind speed of 0 m/s.

3. The machine has been designed to operate on level flat surfaces (zero degree incline).

4. The machine should be placed on a level flat surface that can withstand the weight of the machine plus the operator, tools and materials used.

Once the above observations have been made and adhered to, operation instructions below can be followed:

1. Manoeuvre the machine to the place of work that is being carried out.

2. Make all checks outlined in section 5.1 Preliminary Checks.

3. Lock the brake on the pivoting wheel.

4. Enter the platform and ensure the gates are closed fully. Always use 3 points of contact when entering and exiting the platform.

5. Attach the restraint harness to the restraint harness attachment point.

6. Ensure the platform is clear of obstructions both around the machine and above it.

7. Elevate the platform by pulling out the hand-crank handle and turning the hand-crank clockwise until you reach the desired height. Release the hand-crank handle to prevent any further movement of the hand-crank and platform.

8. The maximum platform height is 2.1m from the ground and the capacity limiter along with the vertical extension stop will prevent any further elevation. The platform can only be lowered from this position.

9. To lower the platform, pull out the hand-crank handle and turn the hand-crank anticlockwise until the desired height is achieved or the platform is fully lowered and resting on the base unit. Release the hand-crank handle to prevent any further movement of the hand-crank and platform. Always ensure the area underneath the platform is clear of objects or personnel.

10. Exit the platform using the gates and using the 3 points of contact method.

5.3 USING THE MACHINE WHEN ELEVATION IS LOCKED

Refer to section 4. DESCRIPTION OF MACHINE COMPONENTS for a description of the functionality of the capacity limiter and vertical extension lock.

If the PRO 7 ACTIVE capacity limiter or vertical extension lock is activated, follow the instructions below:

5.3.1 ELEVATION LOCKED DUE TO EXCEEDING MAXIMUM PLATFORM CAPACITY

If the platform has been overloaded and exceeding its maximum capacity of 125kg or, if further elevation is prevented because the platform has become trapped, then pull out the hand-crank knob and turn the hand-crank anticlockwise until lowering of the platform is achieved.

Fully lower the platform until it rests on the base unit, exit the platform and remove the excess weight from it or move the machine away from the obstruction. Re-enter the platform and follow the instructions within section 5.2 USING THE PLATFORM UNDER NORMAL CONDITIONS.

5.3.2 FAILURE OF THE STEEL WIRE ROPE

If the rare occurrence of a failed wire rope happens, the use of the hand-crank to lower the platform will be the only possibility. The safety system effectively prevents any further elevation of the platform, but will allow, the operator to fully lower the platform.

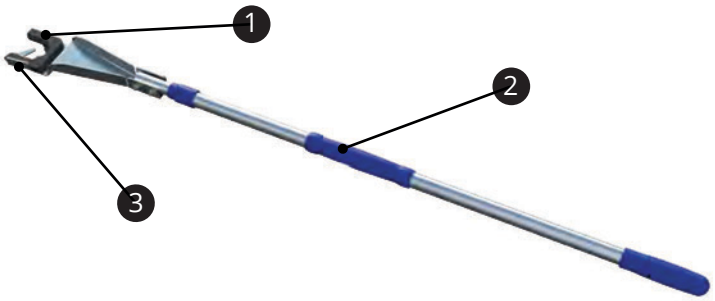
Once fully lowered, exit the platform and apply the transport / maintenance lock (page 15).

Quarantine the machine and report the failure to supervision.

IMPORTANT!

Although a rare occurrence, a steel wire rope failure can be avoided by regular inspection as outlined in section 6.1.2.1 SIX MONTHLY INSPECTION.

5.4 EMERGENCY LOWERING PROCEDURE

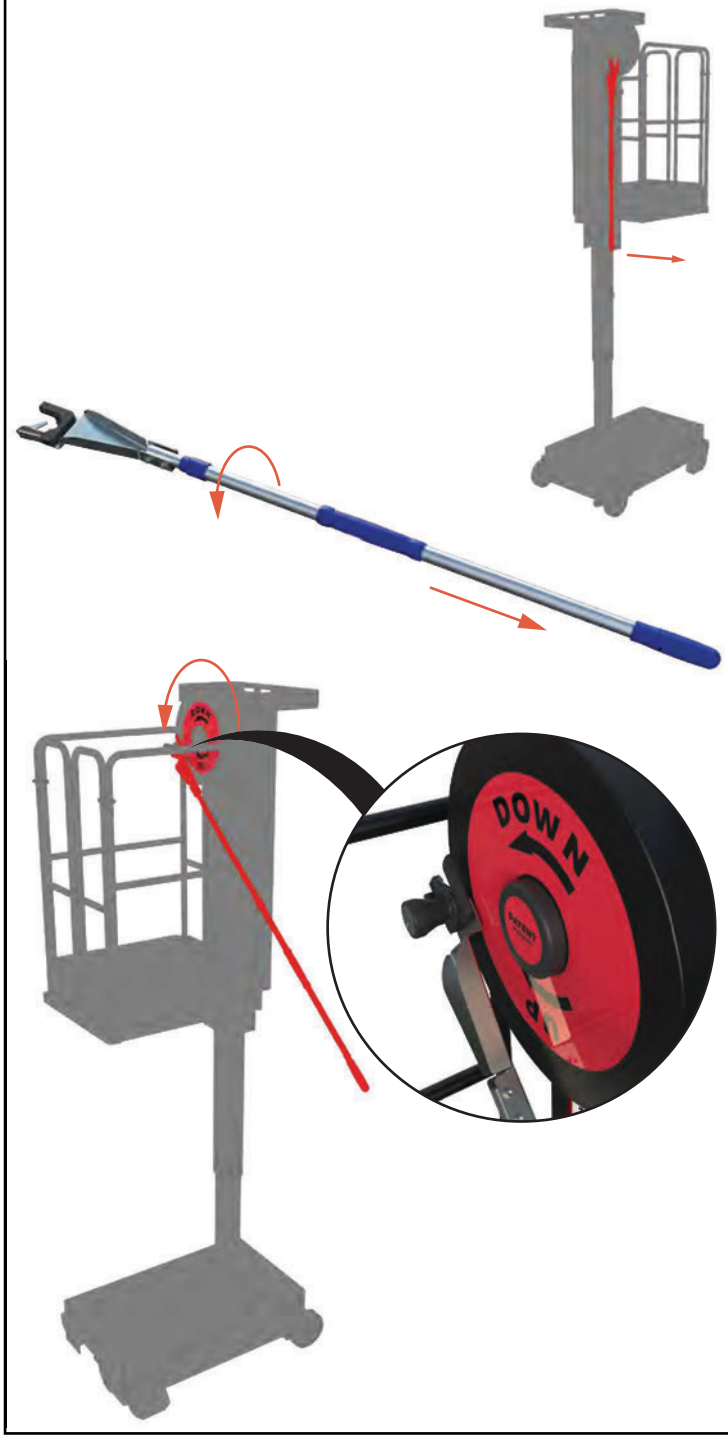


Safety Device

1. Locking Claw

2. Outer Tube

3. Spring Loaded Trigger



Step 1.
Remove the safety device from it's mounting point on the side of the mast.

Step 2.
Take the device in both hands and with one hand holding the locking claw, twist the outer tube anticlockwise to loosen the tube lock. Extend the tube fully and twist the outer tube clockwise to lock.

Step 3.
Position the device between the upper and intermediate handrail, as shown and push the locking claw behind the hand-crank handle until the spring loaded trigger clicks into place. The hand-crank is now activated and the safety device should be held at all points until the platform has been fully lowered and the locking claw can be disengaged and hand-crank handle made safe.

Step 4.
Rotate the hand-crank anticlockwise until the platform has fully lowered, disengage the safety device and ensure the hand-crank handle is fully engaged and locked off.

6. MAINTENANCE PROCEDURES

NOTE:

All maintenance procedures must be carried out by personnel who are trained and deemed fully competent to do so.

The PUWER (The Provision and Use of Workplace Equipment Regulations 1998) stipulates that suppliers such as hire companies have a duty to ensure their equipment is maintained and serviced correctly. After delivery to site and under the supervision of the hirer it is their duty to ensure the equipment remains in a serviceable condition. The hirer / employer must also ensure operators are fully competent to operate the machinery according to the manufacturers instructions.

The Lifting Operations and Lifting Equipment Regulations 1998 (LOLER) require that lifting equipment for lifting persons must be THOROUGHLY EXAMINED every six months.

Following any maintenance on the machine, a full function test should be undertaken to ensure correct operation of the machine.

It is essential that only manufacturer's approved replacement parts are used when maintaining and servicing the machine

Failure to do so may result in an unsafe or unstable machine.

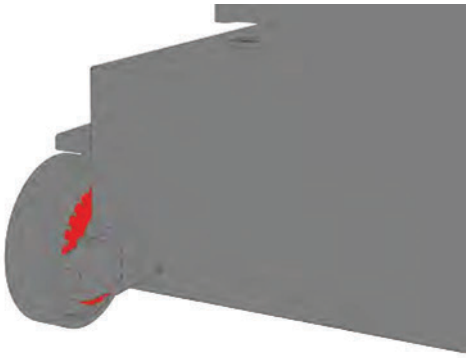
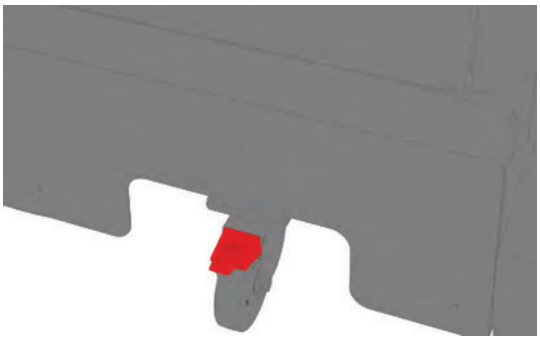
6.1 INSPECTIONS

The machine is fitted with 3 gas springs that each develop 2100 N - 2600 N force.

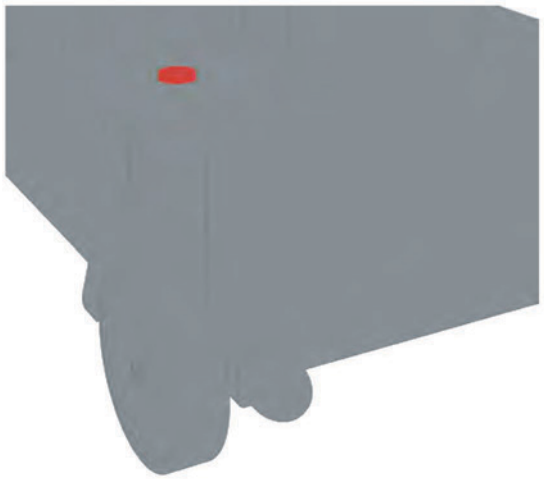
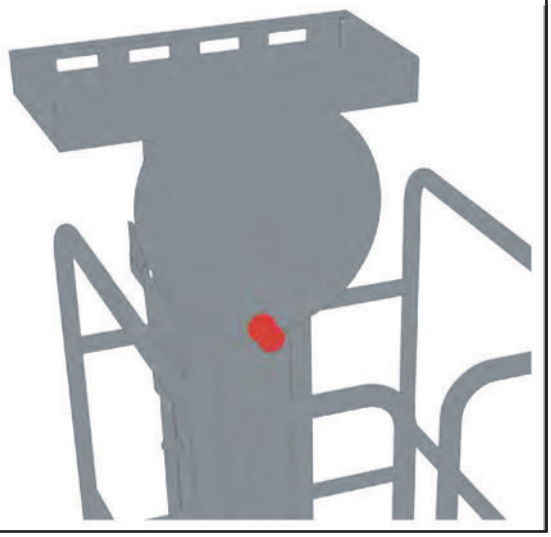
Only the manufacturer can open and maintain the mast assembly to service or replace the gas springs due to high crushing / projection risks.

Users can inspect the machine daily using the checks outlined in section 6.1.1 DAILY INSPECTION.

6.1.1 DAILY INSPECTIONS

1	Check the operation of the front wheel brakes. Enter the platform and elevate it by 10 cm from the base unit (see point 10 in section 5.2 USING THE PLATFORM UNDER NORMAL CONDITIONS). From the platform, ask a colleague to check the engagement of the locking bars of the brake arms within the locking discs found on the rear of each front wheel. IMPORTANT: do not use the platform if the front wheel automatic braking system fails to work properly during elevation. Quarantine the machine and report the fault .	
2	Check the brake of the rear pivoting wheel. Before entering the platform, press the swivel castor brake foot pedal and engage the brake. The machine should resist movement when being pushed. IMPORTANT: do not use the platform if the pivoting wheel brake fails to lock correctly. Quarantine the machine and report the fault.	
3	When entering the platform, make sure that the spring system on the plunger castor assembly allows the rear outriggers to make contact with the ground. The rear outriggers must be secured to the base unit and rest on the ground. IMPORTANT: do not use the platform if the spring system does not allow the rear outriggers to rest on the ground once the operator is in the platform. Do not use the platform if the rear outriggers are damaged or not perfectly flush to the ground. Quarantine the machine and report the fault.	
4	Ensure that, once you are inside the platform, the gates close automatically and do not open towards the outside. Check the pins and the springs to detect signs of wear and damage. See the figures on the side. IMPORTANT: do not use the platform if the gates do not close automatically or open towards the outside. Quarantine the machine and report the fault.	

6.1.1 DAILY INSPECTIONS

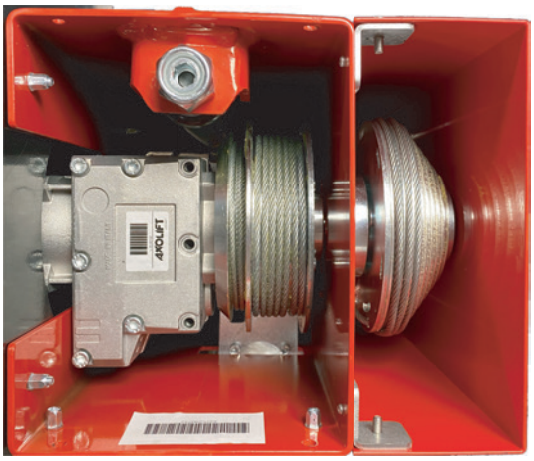
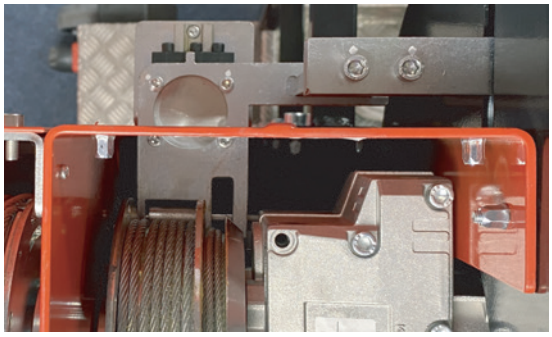
5	Ensure the spirit level is intact and functional. IMPORTANT: do not use the platform if the spirit level is not intact or does not work properly. Quarantine the machine and report the fault.	
6	To check the hand-crank operation. Enter the platform (do not activate the handle from outside the basket). Pull the hand-crank knob and then release it. Make sure that the knob returns to its initial position to lock the hand-crank. Turn the hand-crank clockwise and then anticlockwise. Make sure that the knob moves freely in both directions. Ensure the hand-crank knob is secure and the spring returns the handle to the locked position when it is released.	

6.1.2 QUARTERLY INSPECTION

Carry out all the daily inspections described in section 6.1.1 DAILY INSPECTION.

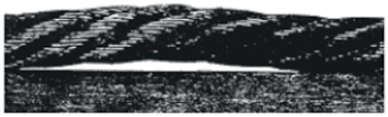
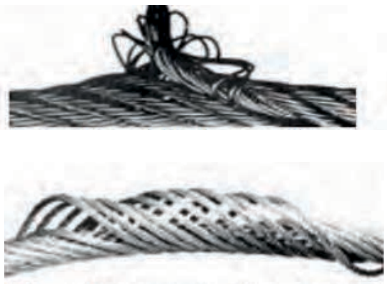
6.1.2.1 SIX MONTHLY INSPECTION OF THE STEEL WIRE ROPE

The steel wire rope found within the mast assembly should be checked every 6 months. The steel wire rope in the mast section is always under tension and if it snaps, platform movement is checked within the required distance. Replaced immediately if any defects are detected. This also includes inspection and testing of the safety cable. A work method on how to test the safety cable is provided in a separate document. (**WORK METHODS - Saftey Cable Check**) Details of the inspection method can be found overleaf.

1	The covers can be removed using a 4mm AF Allen key	
2	Loosen the 4 hex screws on the mast section cover under the tool tray (2 screws on the left side and 2 screws on the right side). See the figures on the side.	
3	Lift and remove the tooltray.	
4	Enter the platform and look over the uncovered area to have a clear view of the sheave, the three steel wire ropes and the slider mechanism including roller. See the figure on the side. Inspect the steel wire ropes and make sure that it is not broken or misshapen. IMPORTANT: Do not use the platform if the steel wire rope is broken or misshapen. Quarantine the machine and report the fault to Supervision. During inspection of the wire ropes, take time to inspect the slider mechanism and roller. Make sure they function correctly and there is no excessive wear.	
5	Slowly lift the platform as described in point 10 of section 5.2 USING THE PLATFORM UNDER NORMAL CONDITIONS. Inspect the steel wire rope and make sure that it is not broken or misshapen. Fully elevate the platform to complete the inspection. IMPORTANT: do not use the platform if the steel wire rope is broken or misshapen. Quarantine the machine and report the fault to Supervision.	

6	Lower the platform as described in point 12 of section 5.2 USING THE PLATFORM UNDER NORMAL CONDITIONS.	
7	Step out of the platform.	
8	Place the tooltray back on the mast section and tighten the 4 hex screws	

The table below lists some of the problems that might occur on a steel wire rope. In all instances only a trained maintenance engineer or the manufacturer should replace a faulty steel wire rope.

Image	Description	Action required
	Steel wire rope in good condition	No action required
	**Helical deformation** This type of deformation occurs when the rope axis has a helical shape. It can also transmit vibrations to the wire rope that can result in irregular control. This can cause wear and break the wires in the long run.	Replace the wire rope if: $d1 \geq 4\ d / 3$ "d1" is the diameter of the deformed rope entanglement; "d" is the diameter of the wire rope; the wire rope length must not exceed 25 d.
	**Basketlike distortion** Basketlike deformation distorts the rope's steel core where the external layer of wires is out of place, or the outer strands are longer than the internal ones.	The wire rope must be replaced immediately.
	Strand protrusion This phenomenon is often associated with the basketlike deformation when the lack of equilibrium in the rope causes the core to protrude.	The wire rope must be replaced immediately.

The table below lists some of the problems that might occur on a steel wire rope. In all instances only a trained maintenance engineer or the manufacturer should replace a faulty steel wire rope.

Image	Description	Action required
	Wire protrusion Wire protrusion implies the separation of some wires or groups of wires on the side opposite the sheave race. Knots are also visible. This type of deformation happens when a load is suddenly released.	Replace the wire rope if it has too many pulled-out wires.
 	Local increase in rope diameter This phenomenon usually implies the distortion of the core and major wear of the outer strands.	Replace the rope if the increase in diameter is excessive.
 	Local reduction in the rope diameter This phenomenon is often associated with the core breakage. During inspection, pay special attention to the areas near the connections.	Replace the rope if the reduction in diameter is excessive.
	Flattened sections Flattened sections result from mechanical action.	Replace the rope if the flattened sections are too many.

The table below lists some of the problems that might occur on a steel wire rope. In all instances only a trained maintenance engineer or the manufacturer should replace a faulty steel wire rope.

Image	Description	Action required
	Kinks This type of deformation is caused by a knot in the rope. In this case, the rope is tight and cannot rotate around its axis. The set-up length unbalances, causing major wear. In the worst-case scenario, the kink can severely lose strength due to unbalance in the lay lengths.	Ropes with kinks must be replaced.
	Bends Angular deformations due to external causes. Ropes with bends must be discarded.	Ropes with bends must be replaced.

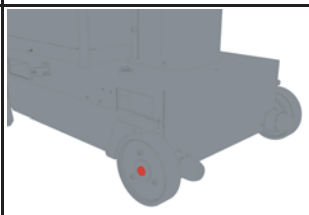
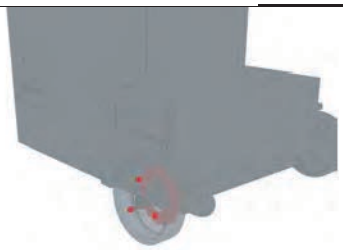
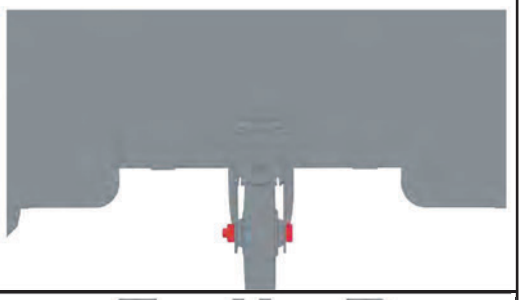
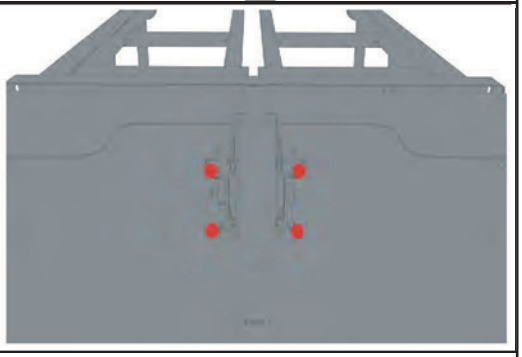
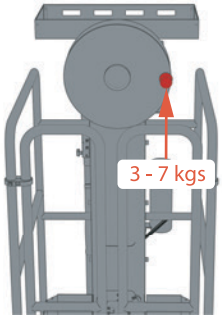
6.1.2.2 QUARTERLY INSPECTION ON RESTRAINT HARNESS ATTACHMENT HOOK

Check the retaining hook every 6 months (See “Restraint harness attachment point” described in Section 4. DESCRIPTION OF MACHINE COMPONENTS.

Replace the hook if it shows signs of wear or damage.

6.1.3 SIX MONTHLY INSPECTION

See table overleaf detailing the requirements for the six monthly check. These are in addition to all of the previously listed checks from section 6. onwards.

Item	Description	Instruction	Image
1	Check the tightening torque of the front wheel bolts.	Check and tighten the 1 x M10 countersink caphead axle bolt to 52Nm. Repeat on the other wheel.	
2	Check the tightening torque of the sprockets installed on the front wheels.	Check and tighten the 3 x M8 caphead socket screws holding the brake sprocket to a torque of 28Nm. Repeat on the other wheel.	
3	Check the tightening torque of the swivel castor wheel bolt.	Check and tighten the 1 x M10 swivel castor axle bolt to a torque of 52Nm.	
4	Check the tightening torque of the swivel castor unit's coupling bolts.	Check and tighten the 4 x M8 caphead socket screws holding the castor swivel plate to a torque of 28Nm.	
5	Check the force to apply to the hand-crank knob to rotate it to lower the machine.	Enter the platform and elevate it by 10 cm. Turn the knob until it is at the 3 o'clock position. Connect a spring balance to the knob. Slowly, pull the knob and the spring balance downwards to turn the hand-crank anti- clockwise. Read the force value, which must range between 3 to 7 kgs.	
6	Steel wire rope inspection	Detailed procedure can be found on page 24	

6.2 CRITICAL COMPONENT REPLACEMENT

The table below describes the replacement frequency of the components not described in sections 6.1.2.1 Quarterly inspection of the steel wire rope, 6.1.2.2 Quarterly inspection of the retaining hook and 6.1.3 Six-monthly inspection. In all instances only a trained maintenance engineer or the manufacturer should replace a critical component.

Component	Replacement Frequency
Front wheel pins	10 years* if no damage is detected during daily inspections
Gas springs	5 years (or 75,000 extension cycles and return of the platform, assuming 40 cycles/-day)
Hand-Crank handle spring	Every 12 months regardless of number of cycles.
Rear swivel castor	Every 2 years regardless of condition.
Whole machine	10 years (or 150,000 extension cycles and return of the platform, assuming 40 cycles/-day)
Bearings	Inspect every 6 months and replace as necessary based on condition.
Slider Mechanism	Inspect every 6 months and replace as necessary based on condition.

* If the machine is used indoors with relative humidity lower than 60% and away from water splashes and dust from industrial environments.

Check each component during through examination and replace if required.

7.1 TRANSPORT INSTRUCTIONS

The driver must make sure that the machine is locked and secured to the towing vehicle. The machine must always be transported with the wheels parallel to the ground. The procedures for loading, towing, handling and storing the machine are described below.

7.2 LOADING

Tail lift truck

If you use a tail lift, place the machine on it when it is lowered. Once the machine is positioned correctly on the tail lift, block the brakes of the pivoting wheel and insert wedges under the front wheels. Lift the tail lift, unlock the pivoting wheel, remove the wedges from the front wheels and place the machine in loading position. Enable the brake of the pivoting wheel, insert 2 wedges on the front wheels and secure the machine using belts. Use at least two belts. One goes above the frame, around the upright section and the machine rear. The other belt should pass through the frame front and brought forward with the other belts to block the machine in all directions. DO NOT position the belt above the platform or handrails.

Fork lift truck

If you use a forklift truck, lower the platform and insert the forks into the holes indicated in the figure below (red circles). Make sure to insert the forks completely. Lift the machine and place it in loading position. Remove the forks, lock the rear pivoting wheel, insert wedges under the front wheels and secure the machine using belts. Use at least two ratchet. One goes above the frame, around the upright section and the machine rear. The other belt should pass through the frame front and brought forward with the other ratchet strap to block the machine in all directions. **DO NOT** position the belt above the platform or handrails. **DO NOT** place over guardrail or toeboard.

7.3 MANOEUVRING THE MACHINE

The operator must take appropriate safety measures to climb on the vehicle, handle the machine and tie it down. The operator must use the vertical outer handrails to push the machine, within the areas highlighted in green on the image below:

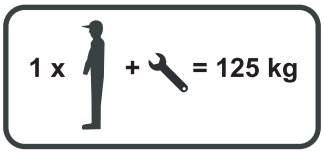
7.4 STORING

Ensure the machine is lowered completely and protected against dust and dirt. The machine must always be handled and stored with the wheels parallel to the ground. After periods of storage, exposures to extremes of ambient conditions of heat, cold, moisture and dust etc.,inspect the machine. Refer to section 5. for the relevant inspection procedures.

8.1 DECAL LOCATIONS

ITEM NO.	DESCRIPTION	QTY
1	HAND-CRANK DIRECTION	1
2	PATENT APP	1
3	TOOLTRAY LOADING	1
4	TUV	2
5	UKCA	2
6	SAFETY INFORMATION	1
7	COSMETIC DECAL - TOEBOARD	2
8	FORKLIFT POINT RH	2
9	FORKLIFT POINT LH	2
10	COSMETIC DECAL - CHASSIS	2
11	INSTRUCTION MANUAL INFO	1
12	OPERATIONAL LIMITS INFO	1
13	COSMETIC DECAL - MAST	1

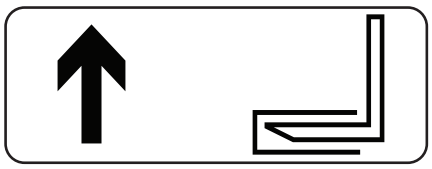
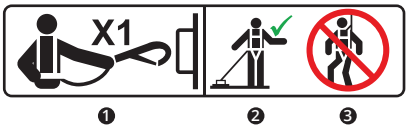
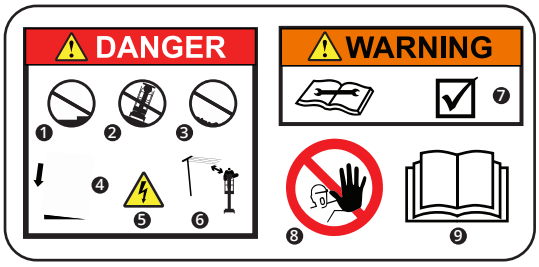
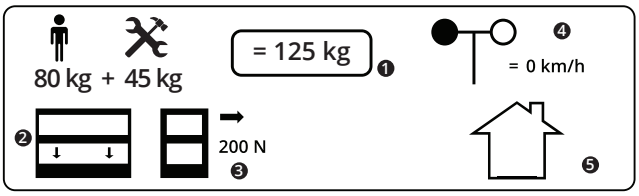
8.2 DECAL SYMBOL MEANINGS

Symbol	Meaning
	Always use work positioning restraint harness when and where required by ligislation and or site specific.
	Observe and keep within max capacity of machine.
	Machine platform weight capacity.
	Do not stand near or underneath the platform when the machine is being operated.
	The machine is to be used only on flat surfaces that can withstand the weight of the machine, operator, any tools and materials.

8.2 DECAL SYMBOL MEANINGS

Symbol	Meaning
	Always keep your body within the confines of the platform when operating or working at height
	Maximum wind speed allowed (0 km/h) This machine is to be operated indoors only.
	Read and fully understand the Use and Maintenance Handbook before attempting to use this machine.
	Wear the appropriate PPE when operating this machine.
	Always engage the Transport safety hook when lifting or transporting the machine.
	Always use tool tethering methods when placing tools in the tool tray.
	Never place your hands near the mast when operating the machine.

8.2 DECAL SYMBOL MEANINGS

Symbol	Meaning
	Fork pocket above
	Tool tray capacity
	1. Restraint harness attachment point. Capacity 1 person. 2. Restraint harness point are for work positioning restraints only. 3. Use of fall arrest systems may cause machine to tip, resulting in serious injury or death.
	1. Do not push machine down steps. 2. Do not operate machine on slopes. 3. Do not operate machine on uneven or soft ground conditions. 4. Never move the machine on a slope steep enough that the machine may become uncontrollable. 5. Electrocution hazard. This machine is not insulated. 6. Maintain a safe distance from power lines. Local regulations apply. 7. Refer to maintenance sections of handbook . Only qualified personnel to carry out maintenance procedures. 8. No unauthorised use. You must be competent to use this machine. 9. Read and fully understand the Use and Maintenance Handbook.
	1. Machine platform weight capacity. 2. Weight to be evenly distributed in the platform. 3. Maximum horizontal / manual force allowed. 4. Maximum wind speed allowed (0 km/h) 5. This machine is to be operated indoors only.

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IQ LIFT PRO 7 ACTIVe

USE AND MAINTENANCE MANUAL

This manual has been prepared in consideration of the following applicable standards, statutory regulations and industry guidance:

ISO 12100:2012: Safety of machinery

ISO 4309:2019: Cranes: Wire ropes

EN 280:2015: Mobile elevating work platforms

PUWER: Provision and Use of Work Equipment Regulations

LOLER: Lifting Operations and Lifting Equipment Regulations

WAHR: Work at Height Regulations

IPAF: International Powered Access Federation guidance

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Revision Date: August 2026