Before Starting Work...

SAFETY & SETTING-UP BEFORE OPERATION

1. You must not allow this platform to be used by anyone under the influence of alcohol or drugs.
2. You must ensure that the operator is competent to work at heights.
3. A current certificate of training achievement (CTA) is required for all operators of mobile work platforms when used in an 'at work' situation. You are responsible for ensuring that the operator is trained and qualified.
4. If you were issued with a familiarisation certificate at the start of the hire – it is not a substitute for proper training; it is only a means of passing on particular data regarding a specific model to a trained person.
5. The operator must wear an approved safety harness fixed to the designated anchor point within the cage whenever the platform is in use.
6. The operator must wear a hard hat and any other personal protection equipment (PPE) that may be needed for the job in hand.
7. Any personnel working near the machine may also require PPE.
8. Never allow an operator to work alone. A nominated 'second person' should be aware that the platform is in use. All personnel involved with the use of the machine should be familiar with emergency procedures.
9. Always operate on a firm, level surface. If ground is soft (e.g. grass, etc.) use scaffold boards under feet to spread the load.
10. Position platform – bearing in mind range of movements of booms so that overhead obstructions can best be avoided.
11. Apply handbrake.
12. Cone off machine with approved barriers so that only authorised persons can enter the area covered by the proposed working envelope. If the machine is fitted with a warning beacon switch it on.
13. If the machine is fitted with manual stabilisers proceed as follows:
    - Lift jack retaining pin to pull out each manual stabiliser. Extend all four manual stabilisers until each pin 'snaps' into position: if pin has not dropped into position, beam has not been extended far enough.
    - Wind down all 4 jacks onto firm level surface – raising base of platform and avoiding manhole covers, drains etc.
    - Level base using spirit level mounted on the machine.
    - Ensure all jacks are wound down and taking equal ground pressure. If a jack goes light during use, the alarm will sound and machine movement will halt. The platform will then need to be recovered using the emergency hand pump.
14. If the machine is fitted with Hydraulic Stabilisers proceed as follows:
    - Select jack controls with the hydraulic duty selector, adjacent to the Ground Controls.
    - Extend all 4 hydraulic stabilisers to a firm level surface – raising base of platform and avoiding manhole covers, drains etc.
    - Level base using spirit level mounted on the machine.
    - Ensure all stabilisers are taking equal ground pressure. If a stabiliser goes light during use, the alarm will sound, but machine movement will be unaffected. If the alarm sounds, descent immediately and check the stabiliser settings.
15. A spirit level is mounted, on the machine to assist in setting up the platform. If the platform is set up in the same position for longer than one hour, the spirit level should be checked at regular intervals. Always check the spirit level and stabilisers if the machine has been left in the 'set up' position over and extended period.

SAFETY & SETTING-UP BEFORE OPERATION

1. Never exceed safe working load – marked on cage or booms.
2. Never attempt to raise booms without properly extending all stabilisers, following the steps described earlier, relating to your particular model of machine. Release the boom clamp.
3. Never allow booms, knuckle or cage to swing out into the road, or into the path of oncoming traffic. A second person should be employed on the ground to act as lookout in any high-risk situation.
4. Never move machine without fully lowering booms and retracting the stabilisers.
5. Do not work in wind speed exceeding 30 miles per hour. (45kph).
6. Do not carry large sheets, for example plywood, in windy conditions.
7. Do not allow power tools, cables, airlines etc. to 'hang free'. Tie them to the booms.
8. Do not raise platform close to overhead power cables. Where it is necessary to operate within the vicinity of live lines the local Power Supplier must be notified, and no work should be carried out without their permission.
9. Should the equipment fail to operate do not attempt to rectify, but contact the hire company or owner.

BI-ENERGY MACHINE CONTROLS

All models in the 120 Series can be built as Bi-Energy machines, with either a Diesel engine or a Petrol internal combustion engine providing an alternate power source. Selection of the power source required is the same for machines, the keyswitch in the cage gives the operator the choice of either electric (DC) power, or by turning to the other key position will enable the engine to be started and utilised.

Once running, the interlock system will prevent the electric motor from providing additional hydraulic flow in order to limit the speed of movement of the machine to within safety requirements. To change back to electric power, the keyswitch should be turned to the 'Batt' position diesel engine will stop automatically as the alternate power source is selected. Petrol engine should be stopped by using the Emergency Stop, which must then be reset to enable the electric motor to work.

EMERGENCY OPERATION

1. In the event of a power failure, the machine can be operated normally using the Emergency Handpump to power the machine. Use the Cage or Ground controls as the Handpump is operated. The Emergency Handpump is situated adjacent to the Ground Controls.
2. In the event of an incapacitated operator; switch key to Ground position and bring down cage, using the Ground Controls in the normal manner. (Button must be held continuously).

TOWING

1. For restricted access the axles on the road trailer base can be simply telescoped in by:
    - Jacking the wheels clear of the ground.
    - Releasing the clamping screws from the side of the axle housings.
    - Pulling up the spring loaded 'snap' pins.
    - Pushing complete wheel and mudguard assembly in towards the centre of the trailer unit until the spring pin 'snaps' into place.
    - Tightening the screw clamps on the side of the axle housings. Before towing on the road, the above procedure must be reversed.
2. On the public highway, the trailer must not be towed unless:
    - The axles are set in the fully extended position, and the pins are fully engaged.
    - Axles being firmly clamped down by the two screws, on the trailer base.
    - Manual stabilisers in their fully stowed positions, and the pins fully engaged.
    - Boom clamp engaged and locked.
3. You are responsible for ensuring that the towing vehicle is adequately rated for the weight of the platform. (Sufficient Gross Train Weight – if in doubt contact the vehicle supplier.)
4. Do not exceed 50mph (80 kph) on the public highway.

BATTERIES

1. The batteries must be recharged after completion of task or overnight. The charger is automatic. A red light indicates charger 'on' and charging.
   Red/green indicates approaching end of charge. Green indicates batteries charged.
2. Check level of electrolyte in battery before commencing charge.
3. Check operating voltage before connecting to power supply – 110v ac or 230v ac.
4. Use a suitable sensitive residual current device (RCD) on 230v.
5. Charging may take up to 12 hours if batteries were fully discharged.
6. Explosive gases are given off during battery charging. Do not smoke or place machine near source of naked flame. Wear eye and hand protection when handling batteries.

GENERAL WARNING

If you are in any doubt whatsoever as to any aspect of the safe operation of this platform, you must refer to your supervisor or the hire company.

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Telephone: 44 (0) 121 380 4600
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk

Please store this leaflet safely, it may be required for further information

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NOTE:

1. With battery operated system the power button must be pushed in before any operation is made.
2. For lowering only from the cage controls the button can, and should, be released as soon as descent begins. This is in the interest of saving battery power. To halt descent release the control lever.
3. Before lowering to stowed position the booms MUST be lined up with the boom rest.

PLATFORM OPERATION	GROUND CONTROLS	CAGE CONTROLS
Rotation	'DOWN' for Cage Left	'DOWN' for Cage Left
Fourth Lever	'UP' for Cage Right	'UP' for Cage Right
Third Lever	'UP' for Raise	'UP' for Raise
No.2 Boom	'DOWN' for Lower	'DOWN' for Lower
Second Lever	'UP' for Raise	'UP' for Raise
No.3 Boom	'DOWN' for Lower	'DOWN' for Lower
First lever (if fitted)	'UP' for Extend	'UP' for Extend
Telescope	'DOWN' for Retract (ground control optional)	'DOWN' for Retract
Cage levelling	(no control at ground)	'FORWARD' for Forward 'REVERSE' for Reverse
Upright Lever	Not used	CAGE CONTROLS

There are 3 sets of controls:
vi) At the front of the machine (Jack Controls)
vii) At the base of the machine (Ground Controls)
viii) In the cage (Cage controls)
To activate the hydraulic motor a key must be inserted into the appropriate control box and turned ON. The Hydraulic Duty Selector must also be moved to the 'Platform' position.

120 Telescopic Machines

For guidance on managing construction health risks go to
www.hse.gov.uk/construction

It is important to read all of this leaflet BEFORE you use the Nitfylift 120

Plan your work and think ahead to make sure you will always be working safely.

CE approved models manufactured January 1997 onwards including Manual and Hydraulic Stabilisers, Bi-Energy and Telescopic final boom variants.

Specification – CE approved.

All models manufactured January 1997 onwards.

A lightweight, trailer mounted, articulated boom platform, able to lift one or two men plus tools.

Model 120 Mk1, M & H, & 120Tel (Hydraulic Stabilisers only)
'H' Base – 4 Manual Jacks, 'X' Base – 4 Hydraulic Stabilisers

	120M&H (series 01)	120Tel (series 04)
Working Height:	12.33m (40ft 5in)	12.2m (40ft)
Outreach:	5m (16ft 8in)	6.1m (20ft 1in)
Weight:	1160kg(M) 1210kg(H)	1270kg
Bi-Energy:	+90kg +90kg	+90kg
Safe Working Load:	200kgs (440lbs) (2 men plus tools)	
Power Options:	Battery operated electric motor, Diesel or Petrol engine, or both.	
Slewing:	360 degree, non-continuous	

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

CE Models Nitfylift 120

2204 Safety Guidance
SERIES CE MODELS

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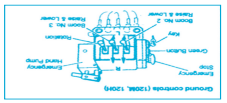
Frank Key PLANT & TOOL HIRE



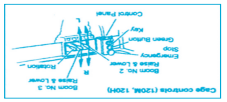
OPERATION
120 Manual Stabiliser Machines

There are 2 sets of controls:
i) At the base of the machine (Ground controls)
ii) In the cage (Cage Controls)
To activate the hydraulic motor a key must be inserted into the appropriate control box and turned ON.

PLATFORM OPERATION	GROUND CONTROLS	CAGE CONTROLS
Left Hand Lever No.2 Boom	'UP' for Raise 'DOWN' for Lower	'UP' for Raise 'DOWN' for Lower
Centre Lever No. 3 Boom	'UP' for Raise 'DOWN' for Lower	'UP' for Raise 'DOWN' for Lower
Right Hand Lever Rotation	'UP' for Cage Right 'DOWN' for Cage Left	'UP' for Cage Right 'DOWN' for Cage Left

120 Hydraulic Stabiliser Machines

There are 3 sets of controls:
iii) At the front of the machine (Jack Control)
iv) At the base of the machine (Ground Controls)
v) In the cage (Cage Controls)
To activate the hydraulic motor a key must be inserted into the appropriate control box and turned ON. The Hydraulic Duty Selector must also be moved to the 'Platform' position.



PLATFORM OPERATION	GROUND CONTROLS	CAGE CONTROLS
Left Hand Lever No.2 Boom	'UP' for Raise 'DOWN' for Lower	'UP' for Raise 'DOWN' for Lower
Centre Lever No. 3 Boom	'UP' for Raise 'DOWN' for Lower	'UP' for Raise 'DOWN' for Lower
Right Hand Lever Rotation	'UP' for Cage Right 'DOWN' for Cage Left	'UP' for Cage Right 'DOWN' for Cage Left