

2-POSITION SELECTOR

ELEVATION

The platform's method of elevation is by the mast. Raising the cage on its own will have an outreach of approximately 3m from the ground. Raising the mast will reach a maximum height of 3.8m. Raising the cage to its maximum height with the mast fully extended will reach a working height of 5.8m (see working area).

To raise the cage turn the "function selector" to the left. Using "movement selectors" you can rise and lower the cage as well as adjust left and right.

CAUTION

WHEN LOWERING THE CAGE IT WILL MOVE QUICKLY DOWNWARDS. ENSURE THAT YOU AND YOUR PASSENGER ARE HOLDING ON TO THE CRADLE BEFORE LOWERING THE CAGE.

EMERGENCY LOWERING

Emergency lowering is required if the operator in the platform is no longer capable of controlling the movements even though the machine operates normally.

An operator on the ground, trained in using the emergency controls and in possession of the starter key, can use the lower console with the main power source to lower the operator in the platform.

In case of emergency push the emergency stop button (located on the upper console and lower turret front panel).

To recover the platform using the lower console switch the key downwards to activate the lower console. Now the controls of the upper console are de-activated. In lower console press the mast telescoping selector. Using movement selector to bring the machine down.

LOWERING MAST FROM GROUND LEVEL

The manual lowering function allows the operator descend mast in case of failure of the main power source.

To lower the mast press and hold the push button control to lower the mast. Release it to halt lowering.

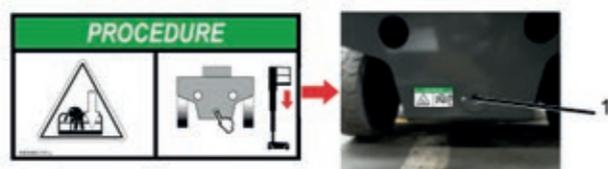
RESCUE AND EMERGENCY PROCEDURES

In case of power loss or if an operating problem prevents the platform occupant from descending, a competent operator can perform the emergency procedures from the ground level.

MAST MANUAL LOWERING PROCEDURE

Press and hold the push button (1) on the front of the machine to lower the mast.

Release it to halt lowering.



EXIT FROM PLATFORM WHEN ELEVATED

In an emergency, if the operator has to exit the platform while it is elevated, the transfer of the platform occupant(s) must respect the following recommendations:

Exit onto a sturdy and safe structure

The occupant(s) must ensure that 2 lanyards are used for security/safety. One must be attached to the designated anchorage point on platform the occupant(s) is in and the other attached to the structure intended to get on. Do not detach the lanyard from the current platform if the transfer to the new structure poses any danger, or until the transfer is safely completed. Do not attempt to climb down the mast. Instead wait for assistance for a safe exit.

Occupant(s) must exit the current platforms through the normal access.

PRE-OPERATION CHECKLIST

- Make sure the environment condition is suitable to use the platform (e.g. wind speed, temperature...)
- Make sure the ground surface is capable of supporting the load
- Visually check to ensure there are no cracks, missing or loose parts, there is no leak of oil or battery acid
- Ensure you check the operator decal for the correct SWL
- Check the condition of cylinders (leakage, rust, traces of wear and tear, scratch, foreign body, etc.).
- Ensure that the batteries are fully charged
- Check the condition of the wheels / tyres.
- Check condition of the limit sensors.
- Check condition and connection of the electric wires and cables.
- Check hydraulic oil level.
- Check condition of the controls/conssoles.
- Check condition of the guard rail and the midrail.

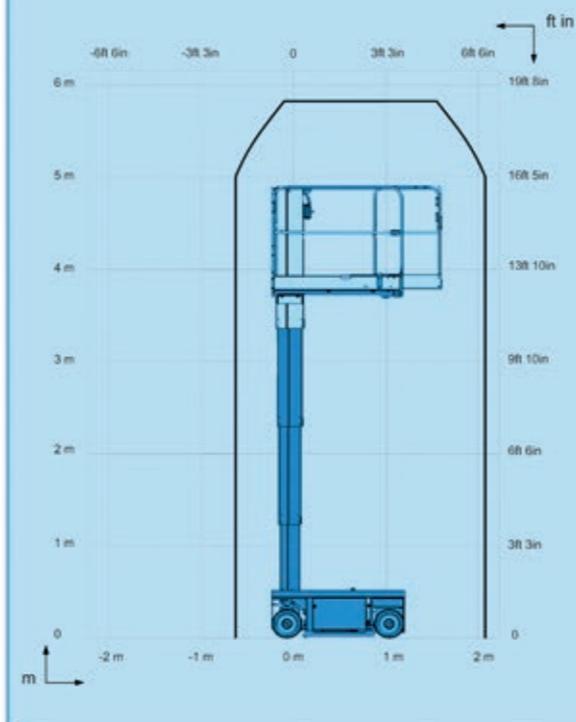
ELECTRICAL SAFE DISTANCE

Electric voltage	Minimum safety distance
0 - 300 V	Avoid contact
50 - 200kV	5m (15ft)
200 - 350kV	6m (20ft)
350 - 500kV	8m (25ft)
500 - 750kV	11m (35ft)
750 - 1000kV	14m (45ft)

WIND DESCRIPTION

Wind Description	Beaufort Scale	Beaufort No.	Speed in m.p.h	Speed in m/sec
Medium Breeze	Raises dust and loose paper, twigs snap off	4	8-12	4-6
Strong Breeze	Large branches in motion, telegraph wires whistle	6	25-31	11-14
Gale Force	Walking is difficult	8	39-46	17-21

WORKING AREA



EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease, assume you have the wrong equipment for the job. Contact your local HSS Hire for advice.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and safe.

FINISHING OFF

Lower the cage and mast, disconnect the safety restraints from the cage, recharge the batteries. Give the unit a final clean up ready for return, to your local HSS Hire

WARNING

THIS MACHINE HAS NOT BEEN DESIGNED FOR OPERATION WITHIN POTENTIALLY EXPLOSIVE ATMOSPHERES

IN CASE MACHINE SHOWS SIGNS OF DAMAGE OR EXCESSIVE WEAR RETURN IT TO HSS HIRE. REPAIRS TO THE MACHINE MAY ONLY BE MADE BY A QUALIFIED HSS SERVICE TECHNICIAN.



... have you been trained

The law requires that personnel using this type of equipment must be competent and qualified to do so. Training is available at HSS Training 03457 66 77 99

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below e-mail: safety@hss.com

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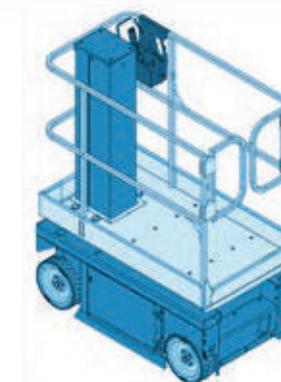
76 Talbot Road, Old Trafford, Manchester, M16 0PQ

Web Site: <http://www.hss.com>

I44/O1

Operating & Safety Guide I44

HSS Hire



Self Propelled Vertical Mast

Compact but versatile battery powered platform with maximum working height of 10m and maximum outreach of 5.8m.



Code 69907

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from your local HSS Hire.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 You are advised to wear a personal restraint when using this equipment. Available on sale or return from HSS Hire.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

Make sure that anyone in the immediate work area is warned of what you are doing.

Never operate the equipment alone. Ensure a competent adult is always within shouting range to come to your aid if anything should go wrong.

Maximum two persons are allowed to work on platform. Never use the lift near overhead power lines or similar hazards.

Never operate the machine when at the temperatures higher than 45 °C and lower than -15 °C.

Never exceed the Safe Working Load

Ensure you check the operation decal for the correct SWL. Do not use it on slopes, soft ground or where there is a risk of subsidence.

Ensure the tyres are in a roadworthy condition. Having said that, this machine must not be driven on a public highway. Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to HSS Hire.

Never use the platform as a goods lift or crane.

Never extend the height of the platform by using boxes, steps ladders etc.

Never enter or exit the platform unless the platform is in the lowered position.

Never climb on the guardrail.

Never use the machine with material or objects suspended on the guardrail.

Never place the machine against a structure to maintain this structure.

Never use the machine to tow or drag.

Do not drive in direction opposite to the field of vision.

When moving the machine always adopt speed according to the ground condition. Before using the platform remove any trace of oil or grease on the steps, floor, handrail and the guardrails.

Keep the floor of the platform free of debris.

Be aware of side forces. Be aware of high winds in exposed, gusty or medium breeze conditions. If the wind is likely to reach strong breeze the machine must not be used.

ELECTRICAL SAFETY

This machine is not isolated and does not offer any protection. Never use the machine as a solder mass.

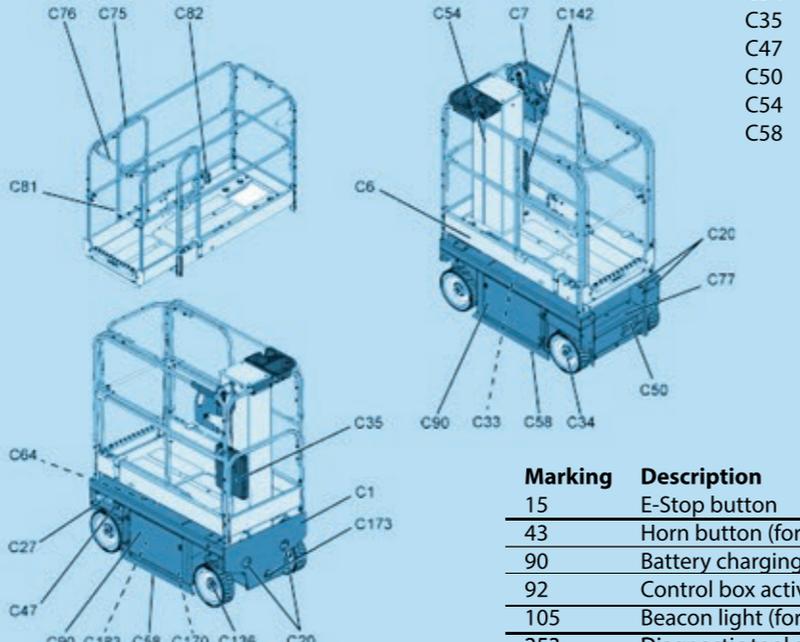
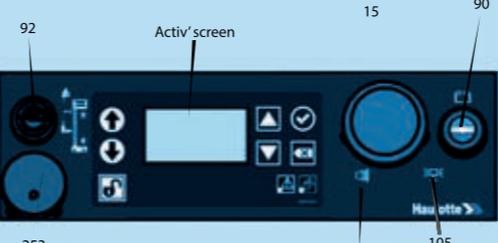
Maintain a minimum safe distance with regard to lines and electrical devices (see electrical safety distance).

The HSS Outreach Platform is powered by 24v batteries.

The unit has an internal 110v charger.

To recharge the batteries, plug the charger into a suitable power supply.

Note: The machine's electric system is automatically deactivated during charging.

Marking	Description	Function
C1	Chassis	
C6	Platform	
C7	Platform control box	
C20	Tie-down (and/or forklift loading)	
C27	Ground control box + Universal plug	
C33	Counterweight	
C34	Rear drive wheels	
C35	Document holder	
C47	Battery isolation switch	
C50	Battery charger socket	
C54	Telescopic mast	
C58	Pothole protection	
C76		
C75		
C82		
C81		
C54		
C7		
C142		
C20		
C77		
C50		
C90		
C33		
C58		
C34		
C64		
C35		
C1		
C173		
C27		
C47		
C90		
C183		
C58		
C170		
C136		
C20		

Marking	Name	Description	Function
15	HL800	Tilt Indicator	Machine on excessive slope
43	HL802	Overload indicator	Not used
90	SA907	Horn button	Move upwards and hold to activate horn
92	SB802	E-stop button	Pulled out: Platform control box power supply energized Pushed in: De-energizes control system
105	HL903	Fault indicator	Faulty or tilting machine
253	SM901	Movement joystick Front axle steering indicator	Move forward: Forward drive or mast extension Move backwards: Reverse drive or mast retraction Press right side of thumb button: Right hand steering Press left side of thumb button: Left hand steering
	HL4203	Mast extension / retraction selection indicator	On: Mast extension / retraction selection activated Off: Mast extension / retraction movement is not selected
	HL100	Driving selection indicator	On: Driving function activated Off: Driving movement is not selected
	SA908	2-position selector	Move to the left: Mast extension / retraction Move to the right: Drive and steer movements
	SA905	Enable switch	Press in: Associated command is validated Release: Associated command movement is halted
	HL904	Battery charging indicator	Battery charged Flashing: Batteries have 40% charge left Constantly on: Batteries have only 20% charge left

IDENTIFIER

Marking	Description
C1	Chassis
C6	Platform
C7	Platform control box
C20	Tie-down (and/or forklift loading)
C27	Ground control box + Universal plug
C33	Counterweight
C34	Rear drive wheels
C35	Document holder
C47	Battery isolation switch
C50	Battery charger socket
C54	Telescopic mast
C58	Pothole protection

It will be necessary to connect the charger power cable to the mains using an extension lead. Ensure that the extension lead is fully unwound and loosely coiled, away from the equipment. Never run leads through water, over sharp edges or where they could trip someone.

Only recharge the batteries in a well-ventilated area. Keep the charging area clear of naked flames, do not smoke.

Recharging the batteries takes approximately 8 hours. Once fully charged the charger will automatically switch OFF. Once fully charged, unplug the unit from its power supply.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire.

If the charger fails, or if the charger's power supply cable or plug gets damaged, return it. Never try to repair it yourself.

GETTING STARTED

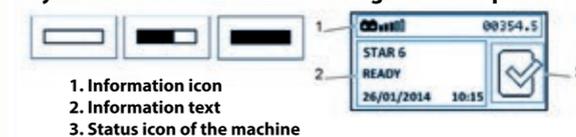
Never use the platform until you have fully read and understood this User Guide and the machine has been properly set up using the information it contains.

Before using platform check its condition (see pre-operation checklist).

Before engaging the machine on any internal or external surface, check that the ground is capable of supporting the load (1065 kg, the combined weight of the unit and platform load).

AT STARTUP

At start up with the ground or platform controls selected; system initiates a self check: Bar gets filled up.



Home screen comes on with status icon of the machine - okay to proceed to functioning the controls.

OPERATION DETAILS

Hydraulic energy to perform machine movements is provided by an electric pump. The operating speed of the pump is governed by a speed regulator. The controls and start-up of the electric motor are powered by battery.

Load in the platform - If the load in the platform exceeds the maximum authorised load, no movement can be activated from the control consoles. The platform overload LED and the buzzer warn the operator. If the platform becomes overloaded to restore normal operation remove some weight from the platform to return to an acceptable load or use the lower console to lower the platform.

Machine tilt - If the machine is exceeding authorized tilt, the tilt control unit alerts the operator. Driving and elevation controls are cut if this situation lasts longer than 2 seconds. In this situation only movements allowing the machine to be folded are permitted (mast lowering, cage lowering).

Machine braking - If electric power is cut off, the machine is automatically braked.

Charging batteries - If the batteries are 80% discharged it is not possible to raise the platform.

 If the battery is discharged the "Battery charge level LED" will indicate. Battery charging starts as soon as the mains supply is connected. While battery is being charged the "Battery charge level LED" will display its status.

BASIC TECHNIQUES

The Outreach Platform can be controlled from the ground or from the cage. However, only operate the unit from the ground controls if testing the unit. Do not use the ground controls for general use. It is possible to drive the unit in the raised position.

Always place the loads in the centre of the platform or distribute them in a uniform manner. During operation, keep all the parts of the body inside the platform.

The machine is equipped with approved anchorage points accepting a single harness per anchorage point. For safe working wear a personal restraint when using this equipment. Make sure it is attached securely to the anchorage point.

TESTING FROM THE GROUND

To operate the unit from the ground control panel, ensure that the key switch is turned to activate the lower console. Move to the side of the unit and stand in front of the ground control panel. The mast and cage can then be controlled by the "movement selector" on the panel.

ACCESSING THE PLATFORM

Before accessing the platform ensure that in the lower console the key switch is turned to activate the upper console. To access or leave the platform the machine must be completely slowed. Face the machine to use the access hatch. Keep 3 support points between the steps and the guardrail.

EXTENSION DECK (If Fitted)

Ensure that the gate or sliding bar is in its proper closed position. Perform these operations on flat, horizontal ground. Press the pedal (1) to release the extension lock pin.

With pedal (1) pressed, push the extension deck guard rails (2) to the extended position.

To retract the extension deck, press pedal and pull the extension deck rails inwards to the locked position. Release the pedal.



DRIVING

Turn the "function selector" to the right to switch to the drive function. Navigate using "movement selectors" All driving speeds are authorized when the machine is stowed. When the cage or mast are raised the unit will move at a reduced speed.

POT HOLE PROTECTION

To avoid the risk of tipping over, the machine is equipped with anti-tipping devices located under the chassis.