



**CONSTRUCTION HOIST SAFETY OVERVIEW**  
**SCOTTISH HOUSEBUILDERS SAFETY FORUM**

**[www.scothoist.co.uk](http://www.scothoist.co.uk)**

## Hoist Operator Induction Course Carried Out In Accordance with BS7212

Date	Company	Site
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Hoist Type	Serial No.	Fleet No.
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### Course Contents

1. Hoist Overview – Moving Parts, Energies, Operating Materials
2. Control & Warning Light System
3. Loading of Hoist – Rated Load Distribution of Load, Securing Load, Abnormal Loads
4. Safety Features – Gates and Interlocks
5. Hoist Operation – Controls, Emergency Stop, Safe Use
6. Conduct Whilst Using the Hoist

**Induction Course carried out on behalf of Scot Hoist Ltd by ....**

**Name:**

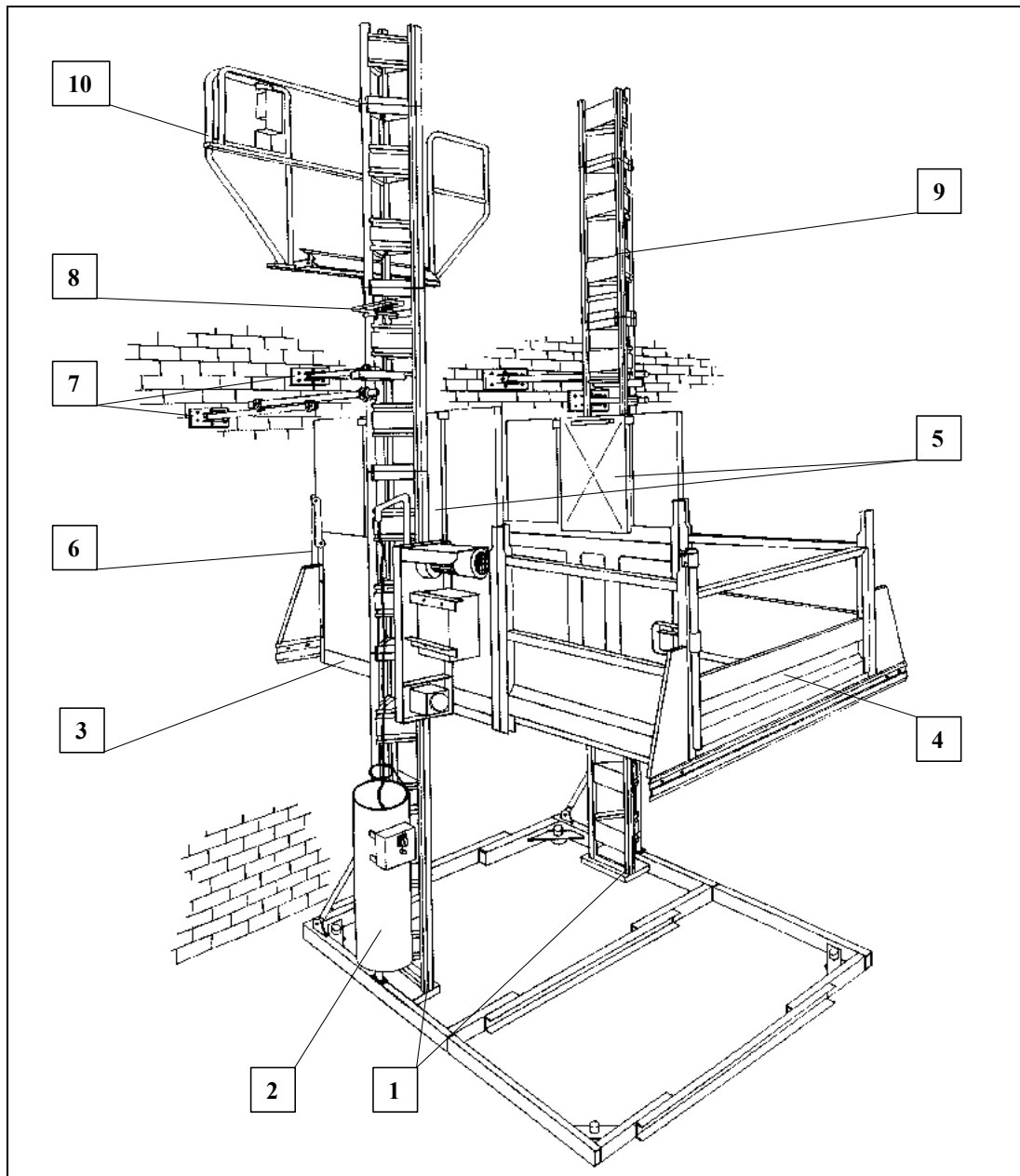
**Name:**

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## Overview of the Hoist

1. Base Section and Base Mast
2. Power Cable Bin (415v supply)
3. Load Platform (2000kg Max Payload)
4. Loading Door
5. Mast Assembly Guard
6. Off Loading Ramp
7. Mast Ties
8. Cable Guides
9. Mast Assembly
10. Landing Gates

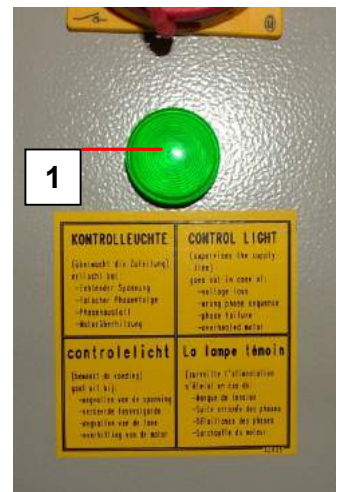
## Control & Warning Lights

### Green Control Light (situated on the cable drum)

When the Operation Control Indicator Light (1) is luminated, the unit is ready for operation.

If the green indicator light is not lit, this means one of the following:

- Incorrect phase sequence
- Incorrect voltage
- Overheated motor
- Fuse / control fuse triggered
- Faulty or removed plug connection

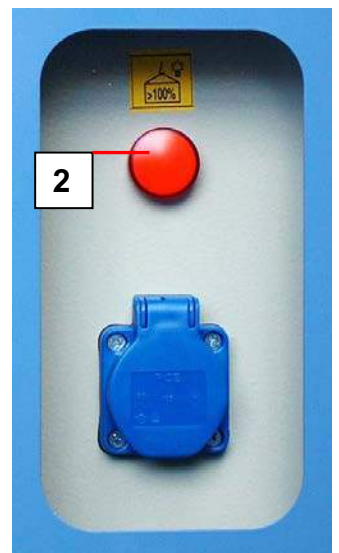


### Red Overload Warning Light (situated inside the platform)

The platform is equipped with an overload warning device which prevents the platform from being operated when it is overloaded. If the platform is overloaded, the red control light (2) on the platform switch box illuminates.

If the red indicator light is lit, this means one of the following:

- ☐ The platform is overloaded
- ☐ One or more of the landing gates are not closed
- ☐ The Emergency Stop button is activated

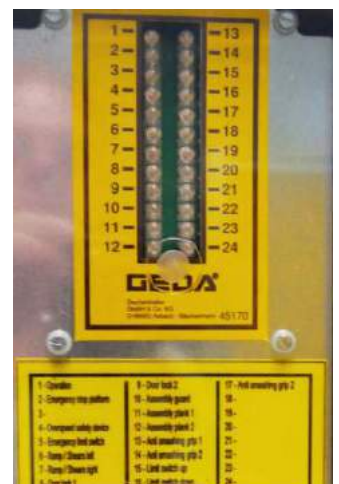


## Diagnostic System

The diagnostic system provides quicker and easier identification of the switching status of the limit switches and **EMERGENCY STOP** buttons.

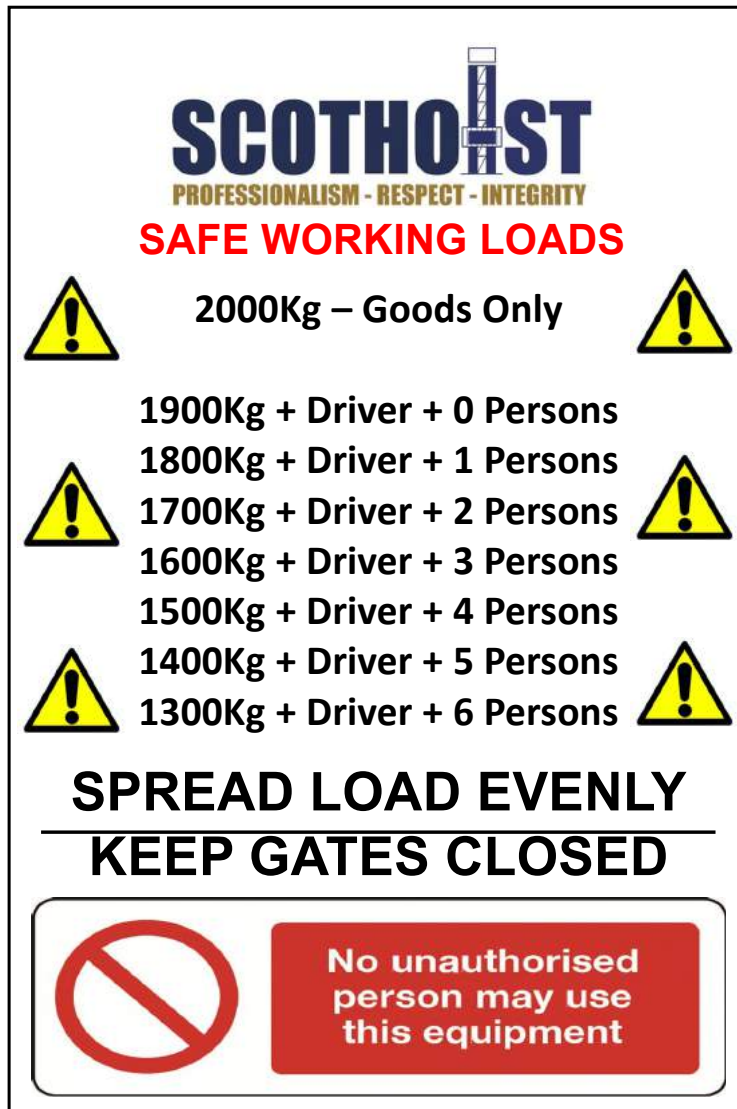
After input of the travel command, only the green diode must illuminate. If this is not the case, the corresponding function or corresponding limit switch must be checked.

**Switching status of the LED** – No. 1 LED should light **GREEN** to signal the hoist is ready to be used.



## Loading the Hoist

The following sign should be displayed in the hoist platform and at all landing levels where the hoist stops.



- ☐ ALL loads MUST be distributed evenly from the centre of the platform outwards.
- ☐ NOTHING should be protruding out with the sides of the platform.
- ☐ Any items stored upwards should be secured safely by means of adequate and approved straps/carrying system.

## Safety Features – Gates and Interlocks

### Loading and Unloading Gate/Ramp

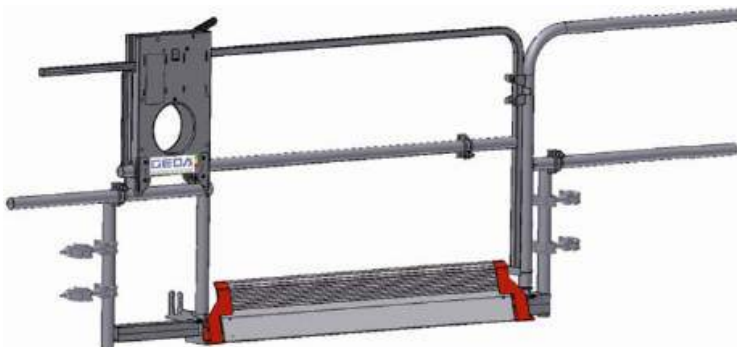


Platform Loading Gate in **CLOSED** Position



Platform Unloading Ramp **CLOSED**

### Landing Level Gates





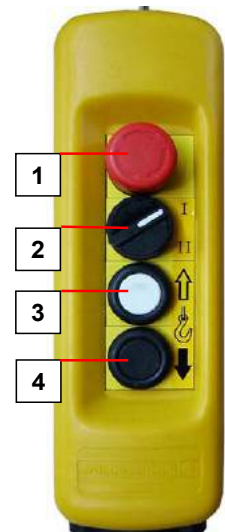
## Operating The Hoist (from the ground)

NB: Selector switch (2) must be at “II” position (Automatic travel)

**To Move Up** - Press **and hold** the **UP** button (3). The platform moves through the lower safety area 2.0 m above the ground (Dead Man Zone) you must keep pressing the **UP** button during this.

After exceeding this safety area, release the **UP** button, and the platform automatically travels onward to the next landing and stops there.

For continuous through-travel to the “second/next landing”, keep the **UP** button pressed until the limit-switch approach bar for the first landing is overrun.



**To Move Down To Ground Level** - Press **and hold** the **DOWN** button (4) until the hoist changes speed, then release. The platform will descend until lower safety area 2.0 m above the ground (Dead Man Zone) where it will automatically stop, and the safety buzzer will sound. Release the DOWN button, inspect the Dead Man Zone, press the DOWN button, when it is safe to do so, and the platform will lower to the ground floor.

**To Move To The Next Floor Down** – Press and release the **DOWN** button (4) and allow the platform to travel below the floor you want to service. Press the **EMERGENCY** button (1) and the hoist will stop. Turn **EMERGENCY** button to the right and pull out. Press and release the **UP** button (3) the platform will ascend to and stop at the desired floor.

## Operating The Hoist (from the platform)

**To Move Up** – Turn the key (5) to the right and press and HOLD the UP button (3) until you approach the desired level, then HOLD button (2) to stop at that level.

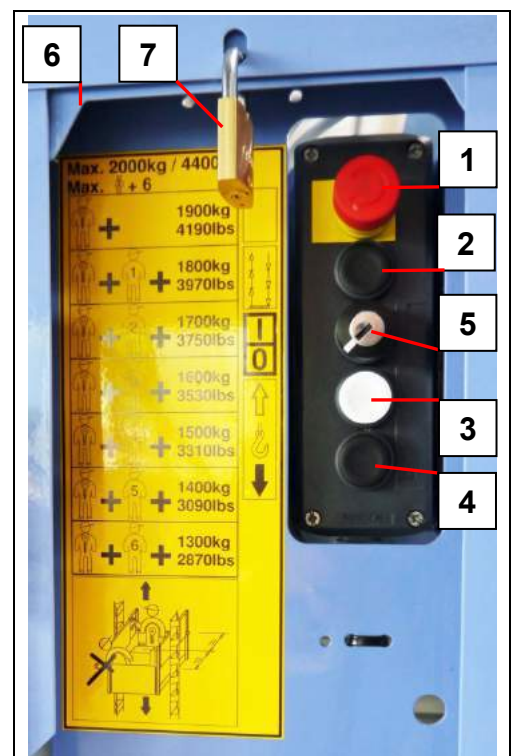
**To Move Down** – Turn the key (5) to the right and press and HOLD the DOWN button (4) until you reach the desired level

NB: The key (5) must be turned to the 'I' position and only released after the up button (3) or down button (5) is pressed.

Press **and hold** the up (3) or down (4) buttons for continuous movement whilst operating from within the platform

### Emergency Stop

In the event of an **EMERGENCY**, press the **EMERGENCY** button (1) to stop the movement of the platform. To release the **EMERGENCY** button, turn to the right and pull towards you.



## **Conduct Whilst Using The Hoist**

1. The machine must be used with an awareness of hazards, in a technically fault-free condition and according to the instructions given by Scot Hoist Ltd.
2. Acquaint yourself with the way the machine works, the operating controls and the safety equipment.
3. The stipulated operating steps and the sequence of steps must be adhered to.
4. If there is any lack of clarity regarding proper condition or correct operation, these points must be clarified. Operation is prohibited until the matter is clarified.
5. The operator is responsible for third parties in the working area of the machine.
6. Unauthorised persons must be kept away from the machine; if necessary set up warning notices.
7. All safety regulations relevant to the respective job/activity must be adhered to.
8. Responsibilities for different activities must be clearly identified and adhered to. Lack of clarity greatly compromises safety.
9. Safety and emergency equipment may neither be removed, altered nor made ineffective and must be inspected at regular intervals to ensure function and completeness.
10. Rectify any faults which fall within your area of responsibility.
11. If faults occur outside your area of responsibility, inform your superior immediately.
12. Smoking, eating, drinking and naked flames are prohibited. Wear personal protective equipment that is in line with site regulations.
13. If there is soiling, take appropriate measures (e.g. drying and cleaning) for all floors, steps, pedestals, platforms and climbing aids to prevent falling and slipping.
14. It is prohibited to attach banners etc. to the machine. This will affect the load imposed by the wind.



## USEFUL LINKS

- CPA (Construction Plant Association) – CHIG (Construction Hoist Interest Group)

<https://www.cpa.uk.net/safety-and-technical-publications/construction-hoists-guidance>

- IPAF Training Courses

<https://www.ipaf.org/en/training-courses/hoist-operator>

- CPCS Hoist Operator Training

[https://www.hsstraining.com/course/cpcs-a20-hoist-novice?gad\\_source=1&gclid=CjwKCAjw7oeqBhBwEiwALyHLM30Ti8QJ3XTPGbUDN-t6WIk2ofvLGWc-O5H6lj2rG8IB4F6X5226kBoCeaEQAvD\\_BwE](https://www.hsstraining.com/course/cpcs-a20-hoist-novice?gad_source=1&gclid=CjwKCAjw7oeqBhBwEiwALyHLM30Ti8QJ3XTPGbUDN-t6WIk2ofvLGWc-O5H6lj2rG8IB4F6X5226kBoCeaEQAvD_BwE)