

**Attach suitable slings /chains to the load and attach to the lifting hook** ensuring the hook is not over crowded and that the hooks gate closes correctly.

**Lift/move the load a nominal distance to check balance** and security of the load.

**Use tag lines** to control long or bulky loads. **Once raised lower as soon as possible.** DO NOT leave the load suspended or unattended for any reason.

## EQUIPMENT CARE

**Never push the equipment beyond its design limits.** If it will not do what you want with reasonable ease and speed, assume you have the wrong tool for the job. Contact your local HSS Lift & Shift Depot 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** from thieves and unauthorised users.

## FINISHING OFF

Gently **lower the load and then remove it from the lifting hook.**

**Detach the hoist from its suspension/anchorage point and place in the case provided ready for return,** to your local HSS Lift & Shift Depot.



## ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

**Fax: 020 8687 5001**

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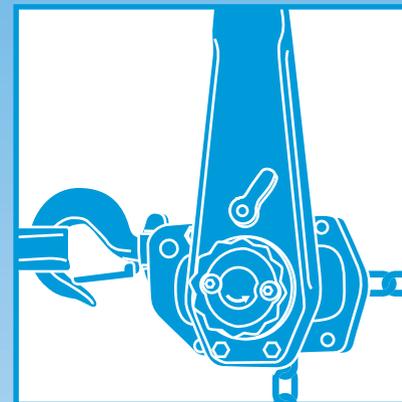
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## Operating & Safety Guide LS61

LS061/03

# HSS Lift & Shift



## Ratchet Lever Hoists

Use for pulling or lifting loads, this lever operated unit has easy reverse action and a wind through facility.



Code 69861/3/71/3/81/2/3/91/2/3/7

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Lift & Shift Depot.

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 is designed to 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 Lift & Shift Depot.

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

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

 Prevent hook overcrowding, with a 'Bow' shackle. Join lifting equipment with a 'D' shackle. Protect sharp edges to prevent load damage.

 May be used at any angle for lifting, dragging or pulling. Anchor to a safe, secure point able to take the load force applied. Allow for contact friction if dragging.

ingly to allow for contact friction if dragging.

 Ensure the load is balanced, stable and that personnel stand clear of the raised load.

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.

## Safety Warning

This equipment **MUST NOT** be used to carry or lift personnel.

Never exceed the equipments maximum or minimum safe working load, see chart. Note that lifting items which are less than 10% of the units SWL is just as dangerous as exceeding the maximum.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Lift & Shift Depot.

Comm Code	SWL (kg)		Height of lift
	MAX	MIN	
69861	750	75	1.5m
69863	750	75	3.5m
69871	1,500	150	1.5m
69873	1,500	150	3.5m
69881	3,000	300	1.5m
69882	3,000	300	2.5m
69883	3,000	300	3.5m
69891	6,000	600	1.5m
69892	6,000	600	2.5m
69893	6,000	600	3.5m
69897	10,000	1,000	2.0m

## GETTING STARTED

Double check that the ratchet lever hoist you have hired has a sufficient Safe Working Load (SWL) for the item being lifted.

Make sure that the hoist you have hired has a long enough load chain.

Check and confirm that the suspension/anchorage point is tested and certified to the equivalent (or preferably greater) SWL of the hoist.

Visually inspect the hoist, paying special attention to the condition of the chains and hooks.

Chains should be clean and free from dust, dirt, moisture and grease. If the chain is gouged, twisted or has distorted or damaged links DO NOT USE IT, return it to your local HSS Lift & Shift Depot.

Hooks **MUST** be distortion free and the gate must return under spring load.

Do not increase the length of the ratchet arm. If you are unable to move the ratchet arm when under load, presume the lever hoist's SWL is insufficient. Contact your local HSS Lift & Shift Depot for advice.

Allow a 10% safety margin to accommodate dynamic forces that may arise during the course of a lift.

## BASIC TECHNIQUES

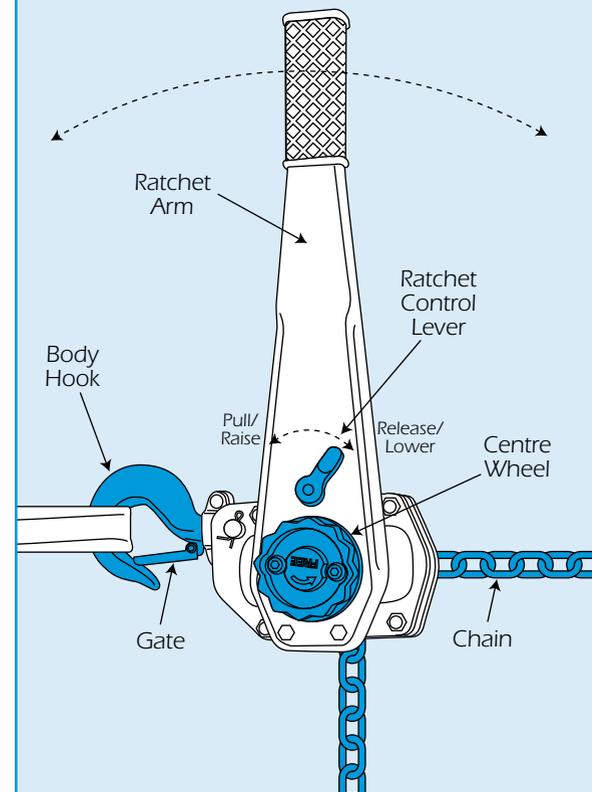
Attach the hoist to a suitable tested suspension or anchorage point, using the body hook. Make sure the gate is correctly closed before proceeding.

Lengthen or shorten the amount of chain as required. To do this quickly, simply turn the centre wheel (marked with an arrow and the word 'free') anticlockwise.

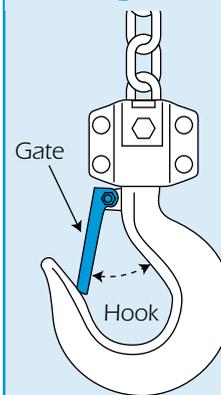
Pull the necessary chain end until the required length is achieved, then re-tighten the centre wheel by turning clockwise.

To set the unit ready to raise/pull a load, move the ratchet control lever to the left.

## Ratchet Lever Hoist



## Lifting Hook



Move the hoist's main ratchet arm back and forth to move the load.

To lower/release a load move the ratchet control lever to the right, then again move the hoist's main ratchet arm back and forth to move the load.

Where the item to be moved has a dedicated lifting eye this should be used.

If the item has no lifting eye, suitable slings/chains must be used.

The load chain must not be used as a sling, i.e. not hooked back on itself.

Before lifting/moving, ensure the load is free and not restrained by fixings etc.

Determine the loads weight and centre of gravity as accurately as possible.