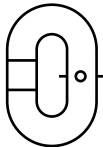
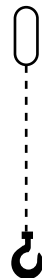
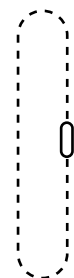
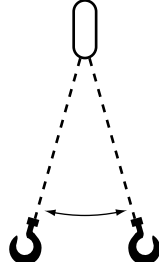
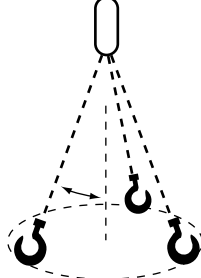
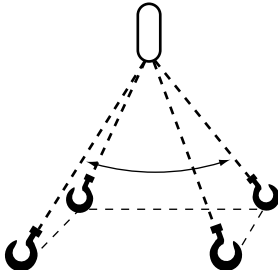


## Grade 80 Working Load Chart (Uniform Load Method of Rating)

Size (d)	Single	Endless	Two – Leg		Three – Leg		Four – Leg	
								
mm	t	t	0°-90° t	90°-120° t	0°- 45° t	45°- 60° t	0°-90° t	90°-120° t
7	1.5	2.25	2.1	1.5	3.1	2.2	3.1	2.2
10	3.2	4.8	4.4	3.2	6.7	4.8	6.7	4.8
13	5.4	8.1	7.5	5.4	11.3	8.1	11.3	8.1
16	8.0	12.0	11.2	8.0	16.8	12.0	16.8	12.0

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

**Attach the chain sling to the load and attach to the lifting hook ensuring** the hook is not over crowded and **that the hooks gate closes correctly.**

**Where the full length of the chain is not required, hook the excess chain into the shortening clutch** (see illustration). Note that all HSS chain slings have shortening clutches of the saddle type and therefore the chain will not need to be de-rated.

**Where, for example, a 4 leg unit is in use with only 2 legs being attached, the SWL must be de-rated accordingly.**

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

**Use tag lines to control long or bulky loads.**

**Raise the load for the minimum of time, aim to lower the load 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 safely do what you want with reasonable ease and speed, assume you have the wrong equipment 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.

**Never exceed the equipment's Safe Working Load.** When not in use, **store the equipment somewhere clean, dry and safe** from thieves.

### FINISHING OFF

**Lower any raised load and detach the sling from the lifting hook and the load.**

**Then 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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## Operating & Safety Guide LS56

# HSS Lift & Shift



## Chain and Barrow Slings

**A full range of single, double and quadruple chain slings.**



Code 69811-52



## 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.


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 barriers.

  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.

 Ensure the load is balanced and stable and that personnel stand clear of the raised load. Attach "tag" lines to control rotation.

 Before lifting a load check that any safety gate is engaged and the load chain is untangled, hanging freely and shows no sign of damage.

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

It is both the hirers and the operators responsibility to perform a risk assessment before assembling or using this equipment. You are also responsible for the safety of anyone in the work area.

Make sure that anyone in the immediate work area is warned of what you are doing. Never allow anyone under a raised load or in a position where they are at risk if the load shifts.

Never leave the equipment loaded and unattended.

Make sure the landing area is unobstructed and able to accept the load in size and weight.

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

Never exceed the chain slings safe working load for the item being lifted.

**DO NOT shock load the slings.** If shock loading occurs, stop and contact your local HSS Lift & Shift Depot for advice.

**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.

## GETTING STARTED

Check and confirm that the suspension point is tested and certified to the equivalent (or preferably greater) SWL of the slings and item being lifted.

Visually inspect the chain slings, paying special attention to the condition of the chains links and hooks.

Chains should be clean and free from dust, dirt and moisture. 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 lock when closed.

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

HSS chain slings are rated as the uniform load method

All slings are rated @ 90 degrees, however, they may be used up to a MAXIMUM of 120 degrees but the SWL will decrease (see chart).

When attaching the sling to the load ensure the load is seated correctly in the bowl of the hook.

HSS supply 1, 2, 3 & 4 leg chain slings and you should ensure the correct type and size is used.

No of legs in the sling	No of legs in use x SWL		
	1	2	3
2	1/2	1	–
3	1/3	2/3	1
4	1/4	1/2	3/4

Where not all the legs are used, the SWL must be re-evaluated.

The weight of the load should be evenly balanced where possible, but where a leg may carry more than its proportionate weight the sling selection must be re-evaluated.

On multi-leg slings, a gripping force occurs as the load is lifted. The magnitude of the force must be taken into account, depending on the load.

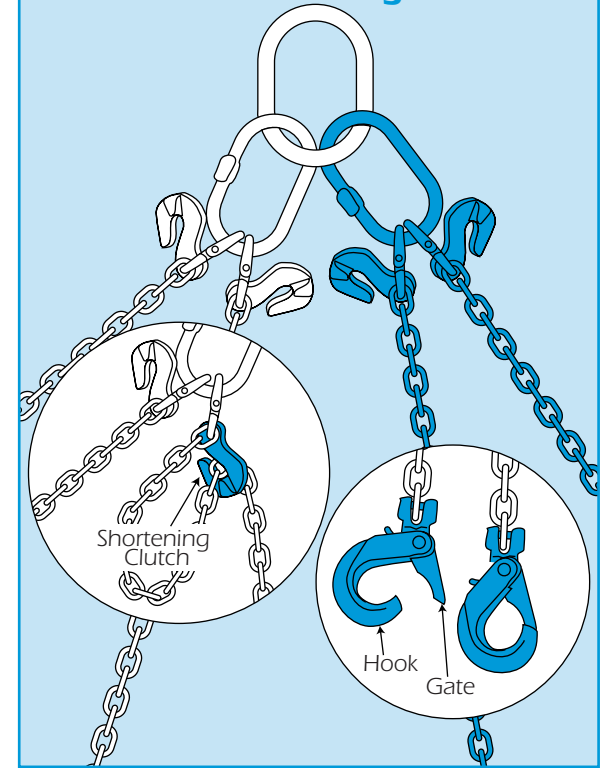
The Barrow Sling has two rings and one corkscrew fitting (see illustration). Slide the rings over the barrow handle and turn the corkscrew fitting around the barrows front wheel bar. Before lifting, ensure the load is evenly balanced and that everyone stands clear.

## BASIC TECHNIQUES

Attach the chain sling to the hoist, crane or hook. Where the item to be raised has a dedicated lifting eye this should be used.

Before lifting ensure the load is free and not restrained by fixing bolts etc.

## Chain Slings



## Barrow Sling

