

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, this will be stamped on the units body.**

**The piling shackle is only to be used to position the piling sheets, it must never be used to pull a sunken piling out as the unit is rated for straight lift only.**

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

### FINISHING OFF

**Lower any raised load and detach the shackle.**

**Then collect together 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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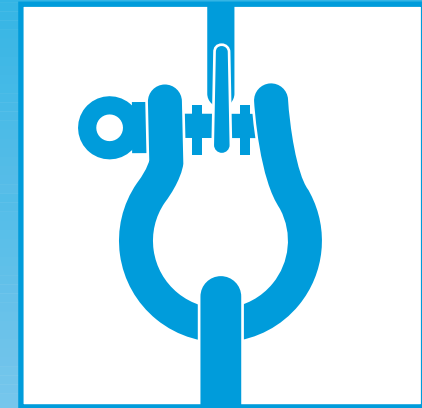
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## Operating & Safety Guide LS53

LS53/01

# HSS Lift & Shift



## Bow, 'D' and Piling Shackles

For safe tackle, load and anchor connections.



Code 69781-6 / 69791-9

## 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.



Use this equipment for vertical lifts only and secure to a level point able to take the combined weight of the load and the equipment.



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 the hook safety catch is engaged and the load cable/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 any one 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 equipments safe working load for the item being lifted.

DO NOT shock load the equipment. 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 Hire Shop.

## GETTING STARTED

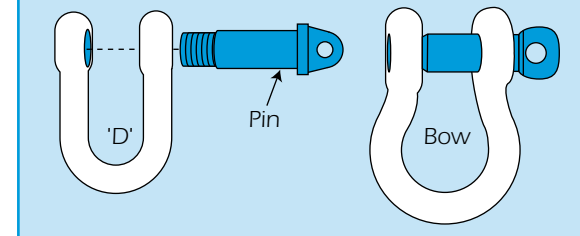
Check and confirm that the suspension point is tested and certified to the equivalent (or preferably greater) SWL of the slings and item being lifted.

Visually inspect the shackle, paying special attention to the condition of the threads.

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

## BASIC TECHNIQUES

### D & Bow Shackle

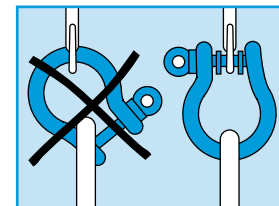


#### D & BOW SHACKLE...

These types of shackle are used as either an anchorage connector or a load bearer.

When used with Polyester slings, the 'BOW' type is preferable as it allows the loops to sit evenly and therefore the load is correctly spread.

D type shackles should be used for anchorage or single connection.



When setting up, ensure that the load will be central to the pin (see diagram). Eccentric loading must be avoided as this creates loading for which the shackle is not designed.

Where necessary the pin can be packed either side of the load to keep the true line central.

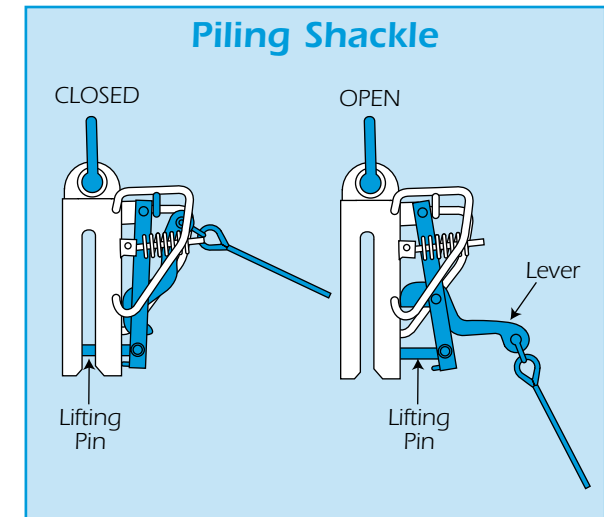
Unscrew and remove the pin, it should unscrew easily, if not DO NOT use it.

Check the overall condition of the parts and reject if bent, cracked or otherwise worn or damaged.

Feed the sling loops over the shackle in a uniform manner then re-insert the pin through the shackle and load point.

Screw the pin fully in by hand, do not use any tools, then loosen the pin back by 1/4 turn.

You are now ready to lift.



#### PILING SHACKLE...

Connect the piling shackle to a suitable lifting hook.

The piling itself has a hole located at the top, this is the lifting point you should use when using the HSS Piling Shackle.

To retract the lifting pin fully lower the lever, slide the unit over the piling and align the pin with the lifting hole. Once in line raise the lever until the pin is fully inserted through the piling and back into its body.

When the piling is in place simply lower the lever to release the pin.

Whichever you are using...

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

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