



# Pole Erecting Sheerlegs Manual

General instructions for the use of sheerlegs for telecoms or electrical overhead line poles



PRODUCT CODES: GL/SHLM1 • GL/SHLM2

[www.ritelite.co.uk](http://www.ritelite.co.uk)

## **IMPORTANT INFORMATION**

- Sheerlegs need specialist training and must only be used in conjunction with the safe systems of work (SSOW) approved by your organisation.
- Sheerlegs are an aid for the erecting of poles typically in difficult to access locations.
- It is recommended that fully automated pole erection systems with little or no manual assistance should be used if available for the proposed location.
- It is expected that the use of sheerlegs will have specific additional requirements for use that will differ for each organisation's SSOW.
- Note that sheerlegs are NOT a lifting device. They form part of the approved SSOW for the erection of poles.

## **DESCRIPTION OF EQUIPMENT**

Sheerlegs are portable and consist of two light aluminium tubular legs to which are attached pulley blocks and tackle giving a mechanical advantage. This allows operators to raise poles with minimum effort.

The pulley blocks are attached to the pole with a choking wire and the tackle is a wire rope of high tensile steel. The pulley blocks and wire rope are attached to a winch which is mounted on one of the legs and is operated by a long-cranked handle. A ratchet is fitted to the winch to sustain the load and may be released for unwinding the wire rope. Spikes or rubber pads are fitted to the sheerlegs to prevent slipping depending of terrain.

The maximum safe load for the sheerlegs is 300kg.

## **WARNING**

### **BEFORE USE**

Ensure you have been trained in the use and care of this equipment before operation. This equipment needs to be used as part of your 'Safe System of Work'. Only use this equipment if trained. Do not use this equipment if not trained.

### **SPECIFIC USE**

This is not a lifting device but forms part of a pole raising system. This equipment can only be used as part of a pole raising system and should not be used for other purposes. Designed to be used to raise poles up to 350kgs in weight. Equipment must be used in line with general instructions for use.

### **INSPECT FOR DAMAGE BEFORE USE**

## **CAUTION**

### **RISK OF ELECTRIC SHOCK**

This equipment has a maximum height of 6m. Take care of overhead line hazards.

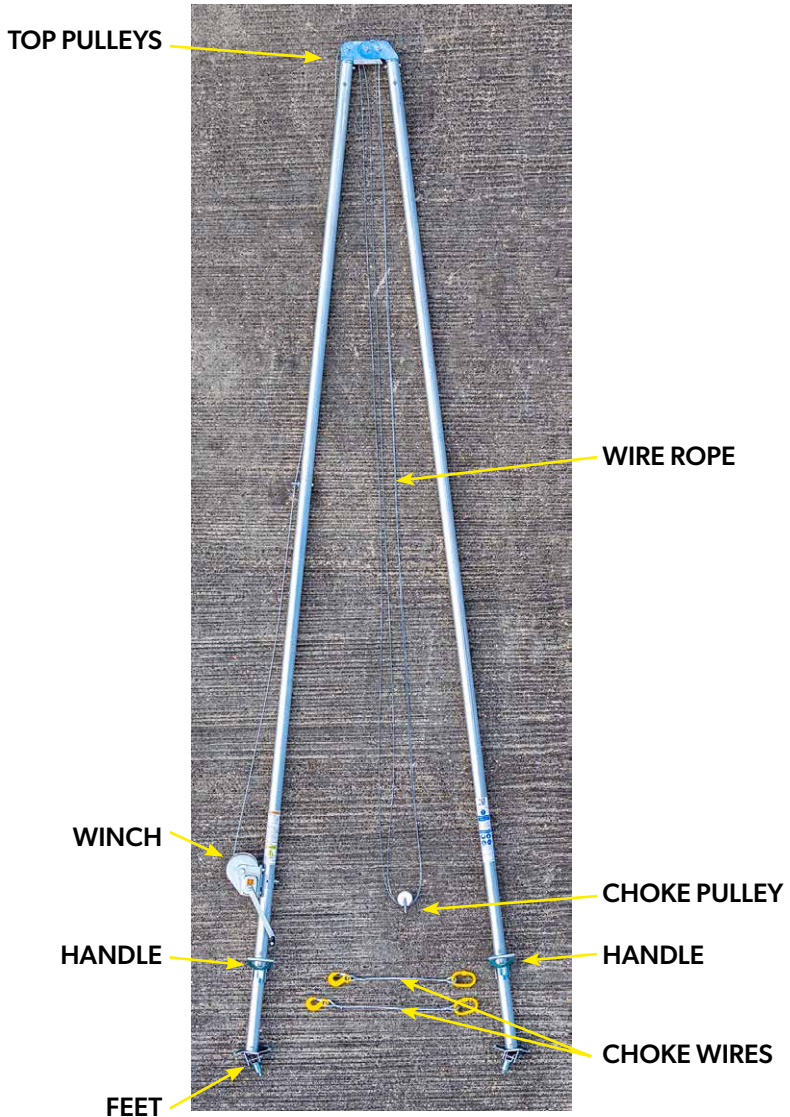
## **RECOMMENDED**



This user guide should form part of your organisation's safe system of work. It is recommended that protective head wear, gloves, boots and goggles are worn during use of the sheerlegs.

# TECHNICAL SPECIFICATIONS

	5M SHEERLEGS	6M SHEERLEGS
PRODUCT CODE	GL/SHLM1	GL/SHLM2
WEIGHT	50Kg	55Kg
MAX LIFTING CAPACITY	300Kg	300Kg
DIMENSIONS	500cm (h) x 50cm (w) x 20cm (d)	600cm (h) x 50cm (w) x 20cm (d)

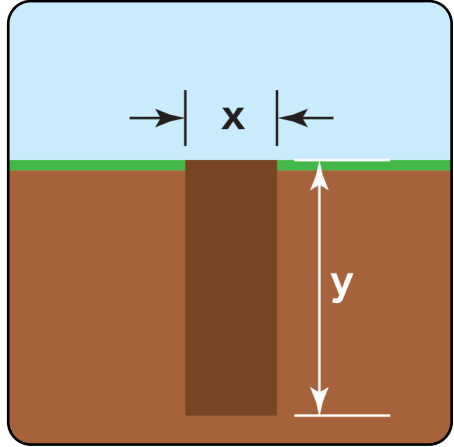


# GENERALISED METHOD FOR POLE ERECTION

A minimum of two people are needed for operation of this equipment. It is recommended to have four people if possible.



1. Set a pole sliding board or digging bar in the hole and place the base of the pole against it so that the pole cannot slip as lifting commences.



2. The depth, shape and diameter of hole should be in line with the SSOW and to the specifications of the organisations agreed parameters.



3. Lay the shearlegs along the pole with the top of the shearlegs at the base end and one leg on each side of the pole, with each foot around 1.5m from the pole.



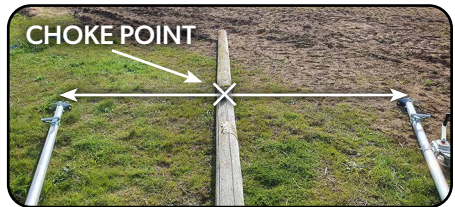




4. Secure the choke wire onto the pole at a point on the line between the feet of the sheerlegs. Release the wire from the winch as necessary



**NOTE** There are two choke wires provided dependant on pole diameter, 850mm and 1000mm total length. Use the choke wire which fits the pole best.



5. After choking the pole there should be free wire which has passed through the choke point of between 80mm and 150mm (choke collar to base of hook). The correct wire length is needed to ensure that the pole is A controlled, and B there is sufficient free wire to pass back through the choke point to release the pole once upright.

6. It is important to locate the choke point between the feet as shown above to assist keeping the sheerlegs upright when raising the pole. The centre of gravity of the pole should always be on the base side of the choke point.



7. Raise the sheerlegs to the vertical and ensure that the feet are firmly based and will not slip as the pole is raised as the sheerlegs lean from the vertical.



8. Raise the pole by operating the winch and the sheerlegs will become self-supporting due to the weight of the pole on the wire rope.



9. As the pole is raised further, the sheerlegs will lean towards the pole hole. When the top of the pole is high enough, the base will slide gently into the hole.



10. Setting the pole. When the base is resting on the bottom of the hole use the handles at the lower end of the sheerlegs to set the pole in a vertical position.



11. Use the shearlegs to hold the pole firmly in the required position during back-filling and tamping.



12. When the pole is up and back-filling is completed, slacken off the winch and when the shearlegs have been lowered to the ground the hitch on the pole will loosen itself and slide down. It can then be removed.

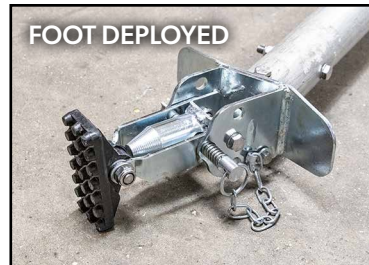
## CARE OF SHEERLEGS

Precautions to take during storage and transport

- Avoid kinking the wire rope when it is not in use.
- It is recommended that wire is attached without kinks and a small tension added to the wires from the winch.
- Lubrication of wire rope via oiled cloth
- A light oil should be wiped over the wire rope once a fortnight to prevent rusting.
- The rope should be inspected frequently. Replace rope if it is damaged.
- A detailed inspection of the shearlegs should be made every six months.

## SHEERLEG FEET

Adjustable rubber feet are available as an option. Depending on terrain either the metal spike on the base of the pole can be used (soft ground) or rubber feet can be deployed (hard ground). Select the foot which gives the best performance to the conditions encountered.





# SPARE PARTS

PRODUCT CODE	DESCRIPTION
GL/SHLM/SLING/0.85	Sheerleg choker - 850mm
GL/SHLM/SLING/1.0	Sheerleg choker - 1000mm
GL/SHLMIR	Sheerleg spare wire rope
GL/SHL/FEET	Replacement rubber feet (pair)
GL/SHL/WINCH	Sheerleg replacement winch
EW/041	Sheerleg winch handle
SHL-412	Choke pulley block
SL/SHL/PBH	Head hinge pulley assembly
SHL-1100	Complete foot assembly (left when facing)
SHL-1200	Complete foot assembly (right when facing)
SHL-200	Sheerleg lifting handle

If you have any queries with operation please don't hesitate to contact us on +44 (0) 1780 758585 or e-mail [sales@ritelite.co.uk](mailto:sales@ritelite.co.uk)

## **Ritelite (Systems) Ltd**

Meadow Park, Bourne Road, Essendine, Stamford, Lincolnshire, PE9 4LT

Tel. +44 (0) 1780 758585 | E-mail. [sales@ritelite.co.uk](mailto:sales@ritelite.co.uk)

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