

LIFTMASTER
Strong Arm
Operating Manual

Strong Arm Operating Manual—OM0008E/3

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This manual contains important safety, installation and operating instructions for this unit. Read this manual thoroughly and completely, and retain for future reference. This unit can cause serious injury to personnel or damage to property if used incorrectly, therefore do not use this machine for any other purpose apart from its intended use. Using this unit incorrectly may void warranty.

Any damage audible or visible to this unit should be addressed at the time of discovery. Electrodrive Pty Ltd can provide parts and service support on request through its service partner company:

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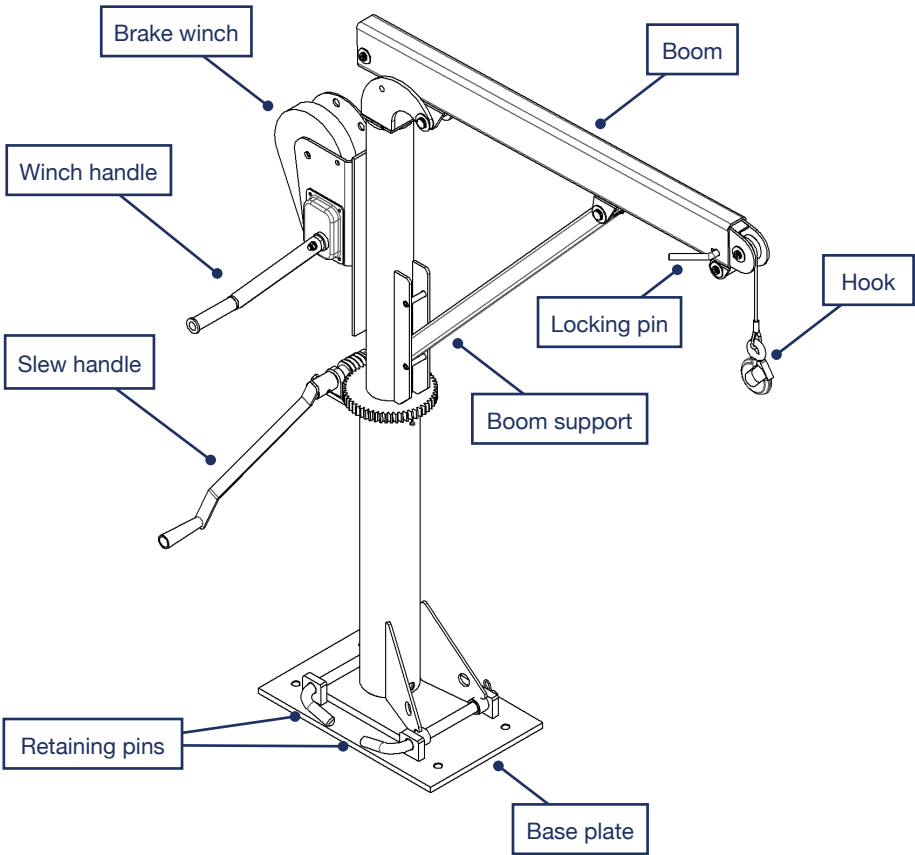
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Introduction

The Liftmaster Strong Arm is a cantilever crane used for carrying heavy loads up onto an elevated surface.



Model	Working Load Limit	Max Load
SIS4HW	500 kg	500 kg

Assembly



Onsite installation and mounting must be done by a qualified engineer.

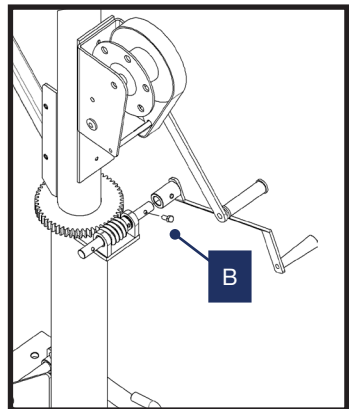
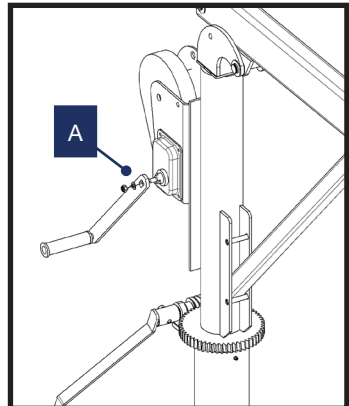
See Appendix 1 for mounting plate diagram for hole placement.

Brake winch handle

1. Unscrew locking nut (A) on brake winch.
2. Place brake winch handle onto bolt.
3. Screw locking nut into place to secure brake winch handle.

Slew handle

4. Unscrew the nut and remove the small bolt (B) on the slew.
5. Attach slew handle by sliding it onto the slew, aligning the bolt hole.



Operating instructions

Safety check

Before using the Strong Arm, the operator should complete the following check:

1. Retaining pins are locked correctly and the unit is secured to the base plate.
2. Boom support is in correct position and that it firmly holds the boom.
3. Boom locking pin is secure, preventing the boom from sliding.

Using the Strong Arm

1. Rotate winch handle anti-clockwise to lower hook.
2. Secure load to the hook.



Prior to lifting, check that the clip on the hook is locked in place and that the hook has a proper lift point.

3. Rotate handle clockwise slowly to raise the load in a safe manner.
4. Rotate slew handle to turn the boom in a circular arc either clockwise or anti-clockwise.

Adjusting the boom

Extending the boom

Remove boom locking pin and slowly slide boom to desired length and reattach locking pin to secure the boom.

Adjusting the boom height

Have a firm grip on the boom and boom support and slowly raise until desired angle is reached. Placing boom support into holder, make sure it is safely secured.

See Appendix 3 for boom length and weight guidelines.



Boom is not to be extended or raised while the weight is attached.
All changes must be done prior to operation.

Maintenance

- Always check cable and hook for signs of damage, wear and fraying.
- Check for any structural damage.
- Check that the winch locks correctly and winch cogs and teeth are sufficiently lubricated with *CRC TAC2* (or equivalent) adhesive lubricant. Check that the roller pins are free of damage and moving correctly.
- Check that all pins, washers and clips aren't damaged or missing.

Warranty

Electrodrive Pty Ltd warrants that this product is free from defects in materials and workmanship for a period of twelve months from the date of dispatch from the Electrodrive plant.

If a defect is reported, Electrodrive will repair or replace the defective part, at its own discretion. This warranty does not apply if this unit has been misused, damaged, or modified in any way.

Please be aware that modifications and misuse will void your warranty. The following activities (including, but not limited to) are examples of these:

Unauthorised maintenance

- There are modifications to the body or frame of the machine.
- Use of non-specified parts.
- The machine is serviced by an unauthorised service agent.

Misuse

- Overloading the unit during lifting.
- Carrying people or other foreign objects.
- Exposed to rain or other precipitation, unless weatherproof option is installed.
- Exposed to a corrosive environment.

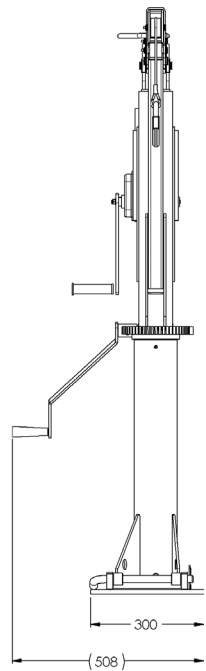
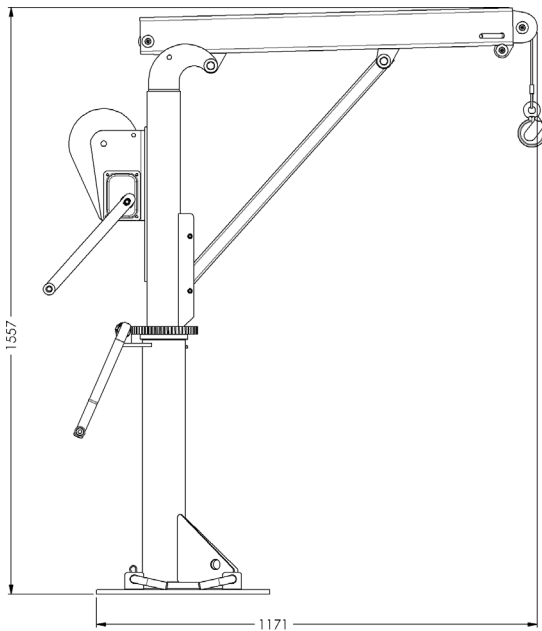
General wear items not covered under warranty

- Tyres, tubes and castors.

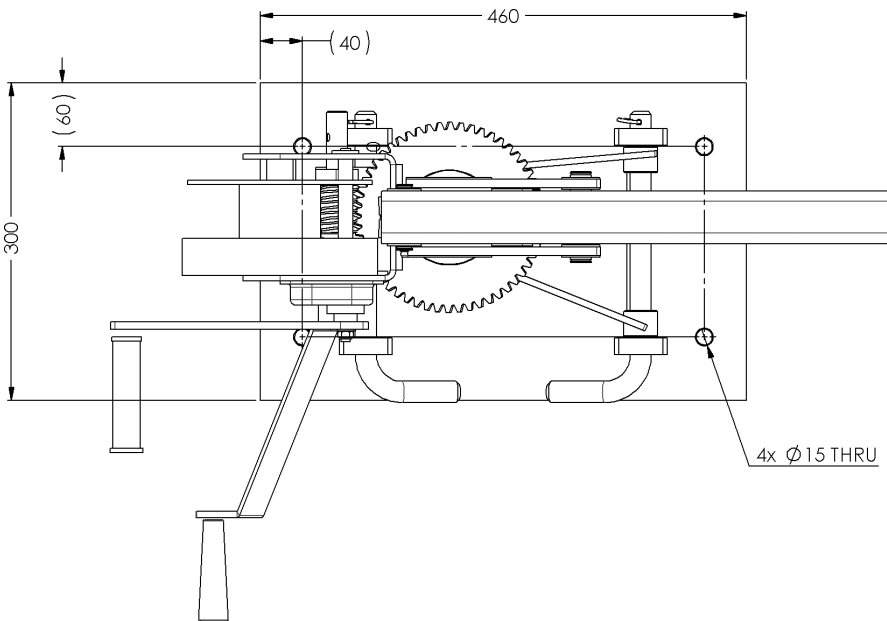
Appendix 1: Specifications

The Strong Arm has been load tested in accordance with Test Specification Clause 12.2/AS4991-2004 (Certificate Number ALS31085).

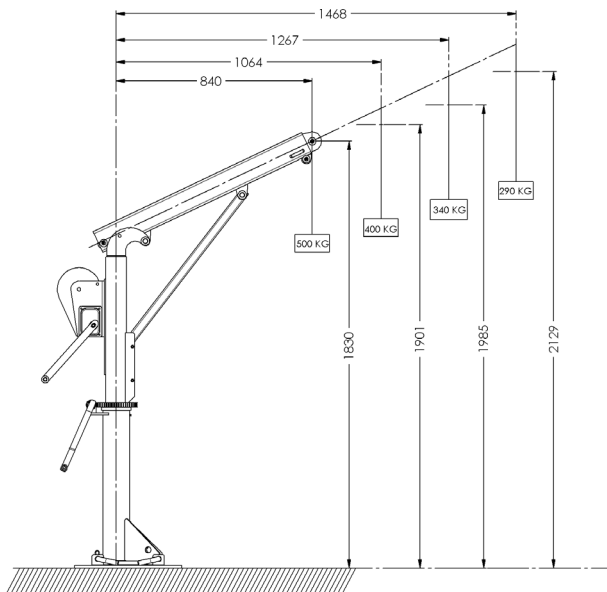
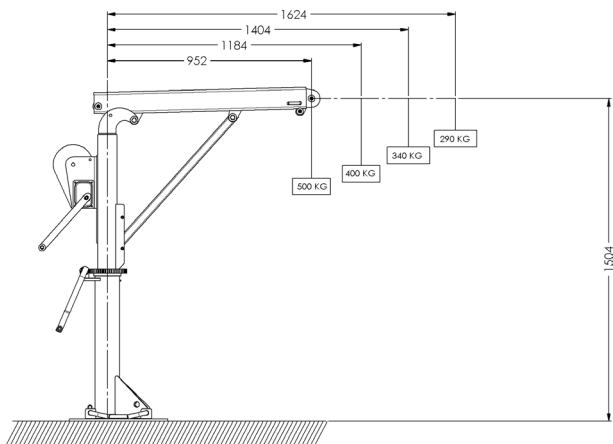
See Appendix 3 for boom length and weight guidelines.



Appendix 2: Mounting plate



Appendix 3: Boom length and weight guidelines



Appendix 4: Brake winch operating instructions

Model: BHW-800, BHW-1200, BHW-1800, BHW-2600



Warning: Before using the winch, read carefully these instructions and keep it for future needs.

Brake winch used on Liftmaster products

Product	Model	Winch used
Ecolift	ECOLIFT50	BHW-1200
Strong Arm	S4HW	BHW-2600

a. Specifications

Model number	BHW-800	BHW-1200	BHW-1800	BHW-2600
Capacity	800	1200	1800	2600
Hand force required (kg)	14.5	15	22	19
Gear ratio	4.1:1	4.1:1	5:1	10:1
Hub diameter (mm)	34/40	34/50	70	80
Handle length (mm)	160	210	320	320
Unit weight (kg)	3	3.3	8	10.3
Rope diameter (mm)	4	5	7	8
Rope storage cap (m)	37/36	25/23	24	18

b. Features

A high quality, multi purpose winch. Frame is one piece design, plastic handle grip, high strength alloy steel gear of one piece design, welded reel. Baked enamel and plated finish. Automatic brake that ensures suspension of the load.

c. Use

Lifting of the load must happen by rotating the crank clock wise. When releasing the crank, the load remains suspended. The descent of the load must happen by rotating the crank counter clockwise. The automatic brake intervenes to avoid unchecked descent of the load.

d. Important safety information

- This winch is not to be used to transport people or for loads over areas where people could be present.
- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.
- Operate with hand power and with crank included in the equipment only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably overloaded.

e. Note

The winch finish can be protected and will provide longer service if it is periodically washed with water and then wiped with light oil or wax.

f. Lubrication

This winch has been fully lubricated at the factory, but for continued smooth performance and increased life, occasionally grease gears, reel, shaft, and handle threads.

g. Caution

Do not oil or grease brake mechanism

h. Fixing of the rope to drum

1. (a) BHW-800, BHW-1200, BHW-1800: please refer figure 1.
(b) BHW-2600 please refer figure 2.
2. Completely tighten the crew of the fixing device.

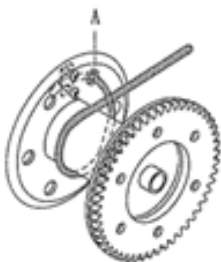


Figure 1

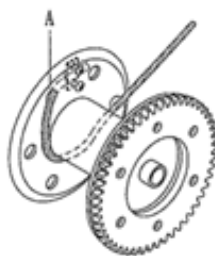


Figure 2

Service log

Service recommendations

To ensure this equipment is kept in a safe and reliable condition, it is important to follow a preventative maintenance program. Maintain a log of the service work on the cards below, and always use an approved Electrodrive service agent to conduct the works. Approved service personnel will be provided with all necessary documents and components in service repair, including but not limited to, circuit diagrams, component part lists, descriptions, service checklists and spare parts.

6 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

12 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

18 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

24 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

30 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

36 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

42 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

48 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

54 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

60 month service

Date of service		Service agent	
Machine serial number			
Summary of works			
Next service due			

Solutions to safely push, pull and lift.

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