

# Service and Operation Manual for Penny Hydraulics Lifts

## CellarLift

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## Introduction and Intended Use

Thank you for purchasing a Penny Hydraulics CellarLift. This is a unique design that is built in our factory to your specification. Each one is tailor-made and we trust that it meets with your approval and will provide you with a safe, efficient and trouble-free means of moving goods for many years.

This manual tells you what you need to know about its operation together with some useful guidance on safety and general care. It also explains the servicing requirements and the availability of a service agreement should you wish to take advantage of it. We have our own engineers around the country lead by our Central Service Department to give an exceptional after-sales service.

We strongly recommend that each operator of the CellarLift be trained in its use and reads all the details set out in this booklet.

CellarLifts, although varying in type and primarily designed for deliveries to licensed premises, have a common operating procedure and in general terms are designed to be used by two persons to move goods between two levels. Care must always be taken when operating a CellarLift as they do not normally have inter-locking gates but rely on the safe layout, operating procedures and inherent design features such as the hold-to-run controls to ensure the safety of operators and third parties. The owner will need to carry out a risk assessment to cover aspects of the operation that are specific to the building such as any trap door opening.

## Accessories

We provide a wide range of accessories for your CellarLift and we can make bespoke items to suit your exact requirements. These include, a case tray for crates, boxes and dry goods, an ullage ramp to assist the loading of full kegs onto the forks and a larger platform to carry wheelie bins.

## Service

With our service contract you can be sure of continued safe, reliable use of the equipment and full compliance with current legislation. We have our own team of service engineers around the UK and their vans are well stocked with spares enabling most visits to be a first-time fix reducing downtime to a minimum. We understand that safe and reliable deliveries are essential to your business.

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## Safety Warning

**These signal words mean:**

### **WARNING**

– You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

### **CAUTION**

– You CAN be HURT if you don't follow instructions.

### **Notice:**

– Your equipment can be damaged if you don't follow instructions.

## WARNING



**In the interest of safety, all personnel involved in the lifting operation must read the operation manual and comply with the following;**

1. The lift must not be used for man riding.
2. Do not step on the forks or platform.
3. Always park the lift at the bottom when not in use.
4. No persons should go near the forks or platform whilst they are raised.
5. The lift must not be overloaded. Refer to the Maximum Working Load signs attached to the equipment.
6. The lift must only be operated by trained and competent personnel. A training register is included at the back of this manual.
7. Whilst the transfer of goods is in progress, access to the area should be restricted to those personnel essential to the operation.
8. As a minimum requirement, the lift should be inspected every 6 months and serviced annually by a competent person. The lift also requires a thorough examination and certificate of test as determined by the competent person at least every 12 months. See the Service Contract section for full statutory responsibilities.
9. Do not use the lift if it is not supported with valid documentation recording a thorough examination being carried out by a competent person within the last 12 months.
10. Keep the CellarLift properly maintained by a competent person.
11. Do not interfere with the factory settings.
12. All safety notices must be read and complied with at all times.
13. Never interfere with the unit, it should run smoothly at all times. If in doubt call the HELPLINE telephone Number 01246 811475.
14. Where barriers, guards and/or safety gates are fitted, always ensure that they are in place before using the lift or commencing any work.
15. There may be further, specific instructions relating to how the lift operation inter-faces with the premises. Contact the premises manager for these before using the lift.
16. Only use genuine parts and accessories.
17. Do not modify or re-install this machine without seeking guidance from Penny Hydraulics Ltd. Only use correct and certified lifting accessories. Any lifting or securing attachments must be formally certified by thorough examination every 6 months.
18. Isolate, immobilize and lock off the equipment before commencing any maintenance routine. Please note that any control panel may remain live, even when the motor is not running.

## Method of Operation



**Before operation, please read the operating instructions and ensure all persons involved in the operation are familiar with the equipment and site requirements.**

### **WARNING**

Read all safety warnings and instructions carefully. Failure to do so could result in seriously injury or death.

Standard operation is via a single hold to run control at the lower level. The person at the controls is in a safe position and no one should pass them whilst the hoist is in motion. It is quicker to alternate an empty with a full so that there are no “dry runs” but space may dictate that all empties are sent out first. Kegs are carried directly on the cradle and cases or other goods on the case tray. The case tray slots over the cradle, the small legs fitting into the tubes on the cradle sides. Standard lifts have forks to carry beer kegs but where kegs are not carried then the case tray or platform can be permanently attached to the lift cradle.

### **Notice:**

Operate the handle positively and hold it over until the cradle stops. **DO NOT** try to judge the top or bottom by releasing the handle before the cradle reaches the stops. The hoist can be stopped at any time by releasing the hold-to-run handle.

**Barrels, Casks or kegs** – to be carried directly on the hoist forks

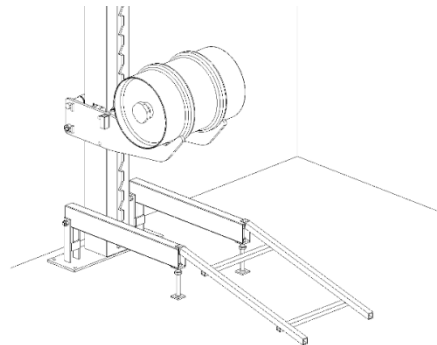
1. Clear the working area of unnecessary people or obstructions, erect any barriers required by premises' procedures then open the entrance doors or flaps and make them secure.
2. Turn on the lift at the mains power switch.
3. When loading at the bottom use the hold to run handle to raise the forks 150mm to accept the first empty cask.
4. Load the first empty. If it is too heavy to lift safely then see the section on Ullage Removal as this demonstrates how a ramp can be used.
5. Send the cradle to the other landing.
6. The assistant can then unload and either load a full or return the cradle empty giving a clear signal to move the cradle when ready to do so. The operator must not operate the handle until they are certain it is safe.
7. The process can be repeated until the delivery is complete.
8. When finished, ensure that all gates and doors are closed and turn off the power.

### **Ullage, Trolley or Bin Removal**

A variety of ramps are available to load heavy items such as full or part full kegs and wheelie bins. There are two main types of ramp; one is free standing the other has lugs, which slot into holes in the ends of the drop arms. Once in place a keg, trolley or bin can be rolled up the ramp and onto the cradle or platform as appropriate.

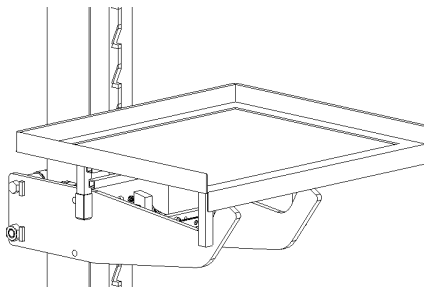
### **CAUTION**

The ramp should not be left in place for keg deliveries as they would run off at speed and could cause damage or injury.



**Cases, Boxes and other dry goods** – to be carried on the case tray or fixed platform.

1. Clear the working area of unnecessary people or obstructions, erect any barriers required by house procedures then open the entrance doors or flaps and make them secure.
2. Turn on the lift at the mains power switch.
3. Use the hold to run handle to raise the forks 500mm to enable the case tray to be fitted easily and safely by simply dropping the tray legs into the square tubes on the cradle. This should always be done from the lower level.
4. Load the case tray or platform evenly taking note of the maximum working loads and send the cradle to the other landing.
5. The assistant can then unload and either reload the tray or platform or return it empty giving a clear signal to lower the cradle when ready to do so. The operator must not operate the handle until they are certain it is safe.
6. When the platform is back at the bottom, the process can be repeated until the delivery is complete.
7. When finished, ensure that all gates and doors are closed and turn off the power.



This illustration shows how the case tray fits onto the cradle. No screws are required, the tray simply slots into position and can be removed quickly and easily in the same manner. Some lifts will have the case tray permanently bolted to the cradle.

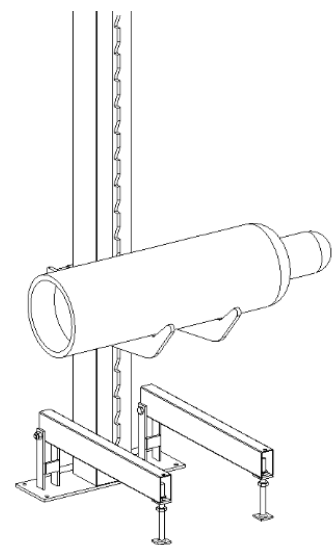
## Gas Cylinders

On most lifts a maximum of three gas cylinders are to be carried directly on the cradle forks. This may not be possible in some cases due to the available width or size of cylinder and then an adapted case tray or cylinder rack will be needed.

### **CAUTION**

Never pile cylinders up into a pyramid and be aware that their centre of gravity may be offset.

1. Clear the working area of unnecessary people or obstructions, erect any barriers required by house procedures then open the entrance doors or flaps and make them secure.
2. Turn on the lift at the mains power switch.
3. Use the hold to run handle to raise the forks 500mm to ensure that the forks are clear of any drop arms or unloading plates and to give an easy working height.
4. Load the gas cylinders taking note of the maximum working loads and send the cradle to the other landing.
5. The assistant can then unload and either reload the lift or return the cradle empty giving a clear signal to lower it when ready to do so. The operator must not operate the handle until they are certain it is safe.
6. Stop the cradle 500mm before the bottom to ensure that the forks are clear of any drop arms or unloading plates. The process can be repeated until the delivery is complete.
7. When finished, ensure that all gates and doors are closed and turn off the power.



## Fault Finding

**Power failure.** Should the power supply to the standard vertical lift be cut off for any reason the cradle can be safely lowered to the bottom by operating the hold-to-run handle with the power off.

The lift should then be switched off and an authorised electrician called to check for the electrical fault. It is not possible to lower a sloping or chain drive lift in this manner.

**The platform does not descend when the handle is operated.** This is a potential “hang up” situation and must be dealt with correctly. As soon as the operator notices that the platform has stopped descending before reaching the bottom they must operate the handle in the up direction for 10 seconds, and if possible, take the platform to the top and unload. Try once more to lower the empty cradle. If it does not descend smoothly then operate the handle for 10 seconds in the up direction to take any slack out of the system. Switch off the power supply and call the HELPLINE.

**Switch on the power supply and nothing happens.** Occasionally a surge in power may cause a fuse to trip out. Switch off power and check fuses, switch/plug and fuse board. Check that any doors or gates that may be fitted are securely closed and that no stop buttons are activated. If the problem persists phone the HELPLINE.

**Oil appears at the base of the lift.** There has been an internal oil leak. Park the cradle at the bottom and turn off the lift. Phone the HELPLINE to arrange for an engineer to call.

**The lift operates slowly and will not go up or down.** There is an oil leak, and the tank is empty. Do not attempt to refill the tank. Phone the HELPLINE to arrange for an engineer to call.

**Minor oil leaks from hose connections or the power pack.** These are not serious but call the helpline for prompt attention.

IF IN DOUBT CALL THE HELPLINE ON 01246 811475

## Penny Hydraulics Limited Warranty Policy and Data Protection

This Policy is intended to provide our customers with the best possible support to ensure trouble-free use of their new Penny Hydraulics lifting equipment. Products sold by the Company are guaranteed to be free from defective material and workmanship for a period of one year from the date of invoice, or from the date of the commissioning certificate, whichever is the later.

This warranty applies only under the following conditions:

- a) The unit or part must not have been subject to neglect or abuse or operated under abnormal conditions or in an unapproved application.
- b) The responsibility of the Company is restricted to what is, in their judgement an adequate repair or replacement of the Company's product.
- c) An authorised engineer must carry out a six-monthly inspection.
- d) The warranty is void if examination reveals that the unit or part has been repaired or adjusted other than by an authorised engineer.
- e) Normal service repairs carried out by authorised engineers are supported by their own warranty.
- f) Warranty does not extend to consumable items requiring replacement due to normal wear and tear.
- g) We will not accept or reimburse the costs of any third party who undertakes any work carried on the product or fits parts, unless we have approved such work in advance.
- h) **Data Protection.** Your details will be held and used by Penny Hydraulics Limited and selected companies acting on our behalf to administer your warranty and to conduct repairs. We may disclose your information to service providers and agents for these purposes. We may also use your data for training and testing purposes.
- i) If you have given us permission, your details may also be used by us or third parties for other marketing purposes. We and the third parties (if applicable) may contact you by mail, telephone or email. If you no longer want your data to be used by third parties or by us for marketing purposes and you have not already notified us please email us at [sales@pennyhydraulics.com](mailto:sales@pennyhydraulics.com) or alternatively please write to our Customer Service Team at our registered office.

Any claim under warranty must be made in the first instance by contacting Penny Hydraulics Ltd Service Department on 01246 811475 or via email at [sales@pennyhydraulics.com](mailto:sales@pennyhydraulics.com). The decision will then be made on how best to proceed after consultation with the customer.

### UK Mainland

We will normally have one of our own engineers based around the country visit the site to rectify the problem. This policy may be varied at our discretion, but it is our aim to give the very best possible response to minimize product downtime and inconvenience.

### Other locations

Warranty is limited to a parts-only service, but in certain areas we may have service partners who may be able to assist. Any defective item should be returned to Penny Hydraulics Ltd for inspection and any valid warranty claim will include reasonable carriage costs both ways. A replacement part will then be sent to the customer.

No variation of the warranty as stated in the Company's Standard Terms and Conditions of Sale is authorised unless agreed in writing by a Director of the Company. This is the only warranty given and the Company accepts no other responsibility.



## Maintenance

**It is the premises duty holder's legal responsibility to ensure the lift is maintained in accordance with the manufacturer's specification.** This will also ensure the continued safe and reliable operation of your lift for many years to come.

Your lift is subject to the Lifting Operations and Lifting Equipment Regulations (LOLER) which makes a statutory requirement to record on a formal document, the safe working condition of the lift, attachments and mounting structure. Penny Hydraulics Ltd support team offers a service package to meet customer requirements and to conform to LOLER certification. Please see service contract form enclosed or contact the Helpline on 01246 811475.

The following planned maintenance schedule is designed to ensure the continued safe working order of the lift and includes a thorough examination by a competent person as required by LOLER. LOLER also requires that a thorough examination is carried out following any exceptional circumstance that may affect the safety of the equipment.

Any defects that are found whilst carrying out the planned maintenance schedule that are, or could become dangerous to persons, must be reported and recorded, and the equipment taken out of operation until sufficient action by a competent person is undertaken. The planned maintenance schedule may require the use of parts and consumables.

A list of recommended lubricants is below.

<b>Item</b>	<b>Lubricant</b>	<b>Specification</b>
General Lubrication	Lithium-based Grease	LEP2
Roller Chain	Chain Grease – Aerosol	Food Grade
Power Pack	Hydraulic Oil	Tellus 32 or Equiv.

### Planned Maintenance schedule

A competent person must carry out a thorough examination and test every six months. In addition to this there are various service operations that must be done on an annual basis. These are indicated in bold. Various split pins, oils, greases and sealant are required to complete a full service.

Before starting work on site always inform the manager/site foreman what operation is to be carried out and of any health and safety issues. The manager/site foreman may have additional requirements that must be followed.

Never leave an open shaft unguarded. Treat ladders with respect and fasten them into position. Never work beneath the cradle or platform without setting safety sprags.

<b>Mountings</b>	<p>Check top and bottom mountings for security. These are to be re-examined under full load conditions during the testing procedure and inspected for movement.</p>
<b>Drop Arms if fitted</b>	<p>Check general condition of drop arms and adjusting legs.</p> <p>Check and re-set roll off angle as necessary by adjusting the legs.</p>
<b>Cradle - rope type</b>	<p>Check for free movement of the cradle.</p> <p>Check the general condition of all rollers and axles.</p> <p>Check operation of cradle arrestor by throwing slack rope. Adjust gap on the pawl to a minimum of 5mm and maximum of 8mm.</p> <p><b>Dismantle rear axle assemblies, detach eyebolts and remove cradle from hoist.</b></p> <p>Clean and lubricate arrestor mechanism with light oil.</p> <p>Clean and check all axles/rollers for wear. <b>Lubricate with high melting point grease and rebuild.</b></p>
<b>Rope sets</b>	<p>Examine all visible rope for broken wires, kinks or miss-shapen areas.</p> <p>Examine eyebolts and check for security and wear.</p> <p>Check for even rope tension and adjust eyebolts as necessary.</p> <p><b>Uncouple rope sets and hoses. Remove top cover plate and pull ram assembly from main column.</b></p> <p><b>Examine internal section of rope and rope anchors for kinks and broken strands.</b></p> <p><b>Check for correct positioning on all pulleys.</b></p> <p><b>Check and lubricate pulleys and axles. Refit ram, seal top cover plate, re-couple hoses and ropes. Fit split pins to eyebolts.</b></p>
<b>Cradle - chain type</b>	<p>Visually check chain attachment points on cradle.</p> <p>Check for free movement of cradle.</p> <p>Check rollers for free movement and wear.</p> <p><b>Apply LEP grease to any grease nipples.</b></p>
<b>Chain sets</b>	<p>Examine both drive &amp; suspension chains for damage and wear.</p> <p>Visually check coupling points for security.</p> <p>Examine all sprockets &amp; clear any debris from behind the bottom sprocket.</p> <p><b>Grease all four chains.</b></p> <p><b>Grease the motor and two bottom bearings via the grease nipples.</b></p> <p>Check suspension chain tensions with the platform near the top. They should be even with only hanging tension in the fall from the cradle to the bottom sprocket but no bunching of the chain when the cradle is lowered. Adjust as necessary using the two adjusters beneath the top sprocket.</p> <p>Check the drive chains for even tension. There should be no bunching of the chain when under load. If they need adjusting loosen the motor mounting plate</p>

bolts and use a bottle jack to push the assembly up so tightening the chains. Retighten the plate bolts.

### **Hydraulic system**

Check that power pack is securely mounted.

Check power pack and hose ends for leaks.

Check oil level and top up as necessary using Tellus 32 hydraulic oil.

Check that relief valve is not causing motor to stall by driving the platform into the end stops.

Examine visible hose run for leaks and damage.

Check and reposition hoses at the top of the column to ensure clearance on cradle rear axle.

**Check the ram whilst removed from the column for leaks or scoring to the piston. Do not attempt any ram repair on site but replace the complete unit if necessary.**

**Check internal hose run or leaks and damage.**

### **Test**

Run up and down five times unloaded. It may not always be possible to go to the top. Check for smooth running and correct relief valve operation.

Load with the largest standard load and run up and down five times. Check that the flow control valve gives 0.5 m/s to 0.75 m/s speed of descent. Check for partial porting of the control valve leading to loss of control over descent. Adjust relief valve to give constant speed of ascent. Examine hoist mountings.

Repeat the unloaded test. Check for leaks. Check rope or chain tensions.

### **General**

Check case tray for fit and condition.

Check ullage ramp for fit and condition.

Check drop mat, where applicable, for condition and replace as necessary.

Check existing guarding and assess the general safety of the installation.

Check that all signage is in position. Replace signs as necessary.

Check that there is an Operation & Service Manual available.

### **Training**

Train staff if requested and complete the training register.

### **Reporting**

Note any defects found, remedial action taken or work still required to be done on the test certificate and in the schedule at the back of the handbook. If the inspection was a Statutory Thorough Examination under LOLER then any defect that is or could become a danger to persons must be notified to the relevant enforcing authority and the lift taken out of use.

Leave a copy of the test certificate on site. Inform the Manager of any defects.

## Service Requirements

We believe that the Penny Hydraulics Lift will make a revolutionary improvement in the handling of your goods, both in terms of safety and efficiency.

The machine is manufactured to the highest quality standards we can achieve to give long and reliable service. To ensure this we have made available an ongoing service contract to provide our customers with a number of benefits.

- Fixed labour cost per year. Costs can be planned closely for the year.
- No call-out charges.
- Includes all statutory thorough examinations and tests for compliance with LOLER.
- Any follow-on visits free of charge.
- Liaise with enforcing authorities as required.
- All spares available ex-works. All routine spares carried on the service vans.
- All engineers specifically trained in Mezz, Scissor and Cellar Lift maintenance and inspection.
- All engineers are health and safety trained and externally accredited via CSCS.
- Penny Hydraulics' health & safety performance is externally assessed by the Safe Contractor Scheme.
- Penny Hydraulics is BS 9001:2015 registered ensuring quality compliance.
- Penny Hydraulics is BS 14001:2015 registered ensuring environmental compliance.
- No subcontract labour is employed.
- Lift kept in first class working order.
- Expect 95% or better first-time fix rate.

A test certificate will be left on site following each visit.

# Service Contract

Date .....

Lift Location .....
Post code .....
Contact .....
Telephone .....
Email .....

Invoice address .....
Post code .....
Contact .....
Telephone .....
Email .....

Penny Hydraulics Ltd agrees to carry out one annual service and one interim inspection on the lift in any 12-month period. A test certificate will be left on site and a copy sent with invoice.

In the event of a problem arising in-between scheduled visits, the customer should telephone the HELPLINE on 01246811475 as soon as possible so that appropriate action can be taken. There will be no charge for the call-out or for labour unless the problem is due to misuse or abuse. Parts may be added to the next invoice due.

The first year is to be paid in advance and thereafter the customer will be invoiced following each visit and by signing this document agrees to make full payment within 30 days of the invoice date in accordance with the agreed scale of charges, which may vary from time to time. This service contract will continue until cancelled in writing by either party. This is subject to a credit account being opened by the customer.

Signed .....

Printed name .....

Position .....

Order number .....

**More details are available online. Please scan and email this form to the office below.**

Penny Hydraulics Ltd

Tel 01246 811475

Email [sales@pennyhydraulics.com](mailto:sales@pennyhydraulics.com)

Web [www.pennyhydraulics.com](http://www.pennyhydraulics.com)



## Technical Data

### Power supply

Standard lifts require a 20 Amp, 240 Volt, 50Hz, single-phase electrical supply terminated in a double pole switch. If circuit breakers are employed in the system, then they must be of a type that can cope with the surge of an electric motor.

### Electrical specification

240 Volt	9.5 Amp	1.5 kW	1 Ph IP54
240 Volt	12.6 Amp	1.8 kW	1 Ph IP54
240 Volt	13.0 Amp	2.2 kW	1 Ph IP55
415 Volt	4.8 Amp	2.2 kW	1 Ph IP55

### Typical Weights

Standard Vertical lift 2.5m	160 kg
Chain Drive version 3.0m	222 kg
Power Pack	25 kg
Case Tray	10 kg
Ullage Ramp	7 kg

### Maximum Working Loads

Each lift is tested and marked individually up to a maximum of 300 kgs.

### Noise levels

Briefly the results are as follows;

Hydraulic Pump – motor running	65 dB(A)
Lift operating while loaded	58 dB(A)
Lift operating whilst unloaded	65 dB(A)

These levels are well below those at which hearing can be damaged, and below levels at which action is required under the Noise at Work regulations.

### Oil

All Penny Hydraulic lifts contain Tellus Type 32 hydraulic oil which is not considered hazardous as defined by EC legislation. Any spillage should be wiped up, not flushed away. Penny Hydraulics will collect and dispose of rags or sand used to soak up oil in an approved manner. Contact with the oil should be avoided as it may cause transient irritation. Wash affected areas with soap and water or in the case of eyes, just water. If irritation persists, seek medical attention.

### Terminal Disposal

Penny Hydraulics Ltd will remove and dispose of the entire lift in an environmentally sound manner when required.

## Survey, Installation and Commissioning

All Penny Hydraulics lifts are manufactured to a high standard and can be installed in many diverse situations. Since no two applications are the same, the lifts are custom-made following a site survey and risk assessment.

Each one is then assembled in the factory and once delivered to site cannot readily be altered. It is therefore essential that when the original survey is carried out, that all dimensions and facts that may affect installation are correct. The following section explains the important points at various situations.

### Survey

A trained person must perform the survey and complete a site assessment form, as it is part of the installation risk assessment and layout evaluation. A quotation may be derived from an architect's drawing, but knowledge of the intended use and a site survey are essential as the job progresses to take full account of the special requirements of the task and location.

### Installation

All installations must be carried out by qualified engineers trained in the method of installation and approved by Penny Hydraulics. It is important to note that should a non-approved engineer on installation cause damage or fault, this could invalidate the warranty.

- Clear the working area.
- Check all dimensions before unloading.
- Work in accordance with the instruction and guidance on the assessment form, drawings, risk assessment and method statement that must accompany all lifts.
- Manoeuvre the lift into position noting that this will normally require a crane mounted on the delivery vehicle or chain blocks fixed inside the building. Lifts can be made in two or more sections to aid manual handling and then assembled in position.
- Bolt the lift to the floor and back wall or framework. It is essential that a sound fixing is obtained at the top of the lift. Welding may be required.
- Locate and mount the power pack such that the operator is in a safe position at the bottom but has sight of the lift.
- Erect any guarding necessary as previously agreed. This is sometimes done earlier in the installation process depending on site circumstances and how the lift fits into the structure.
- Couple all electric and hydraulic connections. They must all be fastened securely and neatly back. It is possible to commission lifts on a temporary supply and then an electrician couple into a permanent supply prior to the lift going into service.

## Commissioning

- Perform pre-commissioning checks;
  - All hose connections to be tight and not leaking.
  - Hoses to be fastened back securely.
  - All nuts and bolts to be tight and any safety lock pins in place.
- Switch on the power and by listening, ensure that the motor is running smoothly.
- Operate the lift up and down and check that the direction matches the signage.
- Run the lift up and down empty five times.
- Run the fully loaded lift up and down three times.
- Check the speed of descent. Adjust to between 0.5 to 0.75 metres/sec.
- Perform a 25% Static Load test. Check hoist mountings for security.
- Remove load and run the platform for a further five times up and down, the platform should run smoothly at all times and the rollers should remain cool.
- Check for any oil leaks on the hose connections, around the power pack and at the base of the main pillar.
- Check the power pack mountings, minimum two M8 bolts.
- Check that the lift mountings are secure to the floor. A minimum of two M10 bolts or equivalent in total.
- Check that the lift mountings are secure to the wall at the top. A minimum of two M10 bolts or equivalent are required at each side.
- Check for correct operation of all lift features and safety devices.
- Where applicable, check that the platform locks in the folded position and that the safety latch is in place.
- Check that all notices are posted correctly.
- Train an appointed person on site in all operational procedures and safety precautions. Enter details in the training register at the back of this manual.
- Enter your own details on the work record.
- Complete a test/commissioning certificate.




## Declaration of Conformity

This declaration relates exclusively to the machinery in the state in which it was supplied, and excludes components, which are added, and/or operations carried out subsequently by the final user.

*Penny Hydraulics Limited* hereby declares that the product(s) listed below:

<b>Model</b>
CellarLift
<b>Serial Number(s)</b>
00001 to 999 000

Conform to the essential requirements of 2006/42/EC Machinery Directive of the European Community.

<b>Applied Harmonised Standards</b>			
<b>EN 12100:2010 Safety of Machinery - General Principles for Design</b>			
<b>Other Technical Standards and Specifications</b>			
<b>BS EN ISO 4413:2010 Hydraulic Fluid Power. General Rules and Safety Requirements.</b> <b>BS EN 60204-1:2006+A1:2009 Safety of Machinery. Electrical Equipment of Machines. General Requirements.</b> <b>BS EN 61000-6-3:2001 Electromagnetic Compatibility (EMC). General Standards.</b> <b>The Lifting Operations and Lifting Equipment Regulations 1998.</b> <b>The Provision and Use of Work Equipment Regulations 1998</b> <b>HSE Guidance LAC 49/10: Power operated cellar hoists for beer containers</b>			
All information is given within a Technical File compiled by: Mr Terry Brocklehurst c/o Penny Hydraulics Ltd.			
<i>Penny Hydraulics Limited, Station Road Industrial Estate, Station Road, Clowne, S43 4AB.</i>			
<b>Place</b>	Penny Hydraulics Limited	<b>Signature:</b>	
<b>Date</b>	27/07/15	<b>Full Name</b>	R.G. Penny
		<b>Position</b>	Managing Director

BS EN ISO 9001: 2015 British Standards Institute Registered Company  
Certificate No. FM 20203

# Spare Parts

## Standard Vertical Lift Components

### Main Assembly

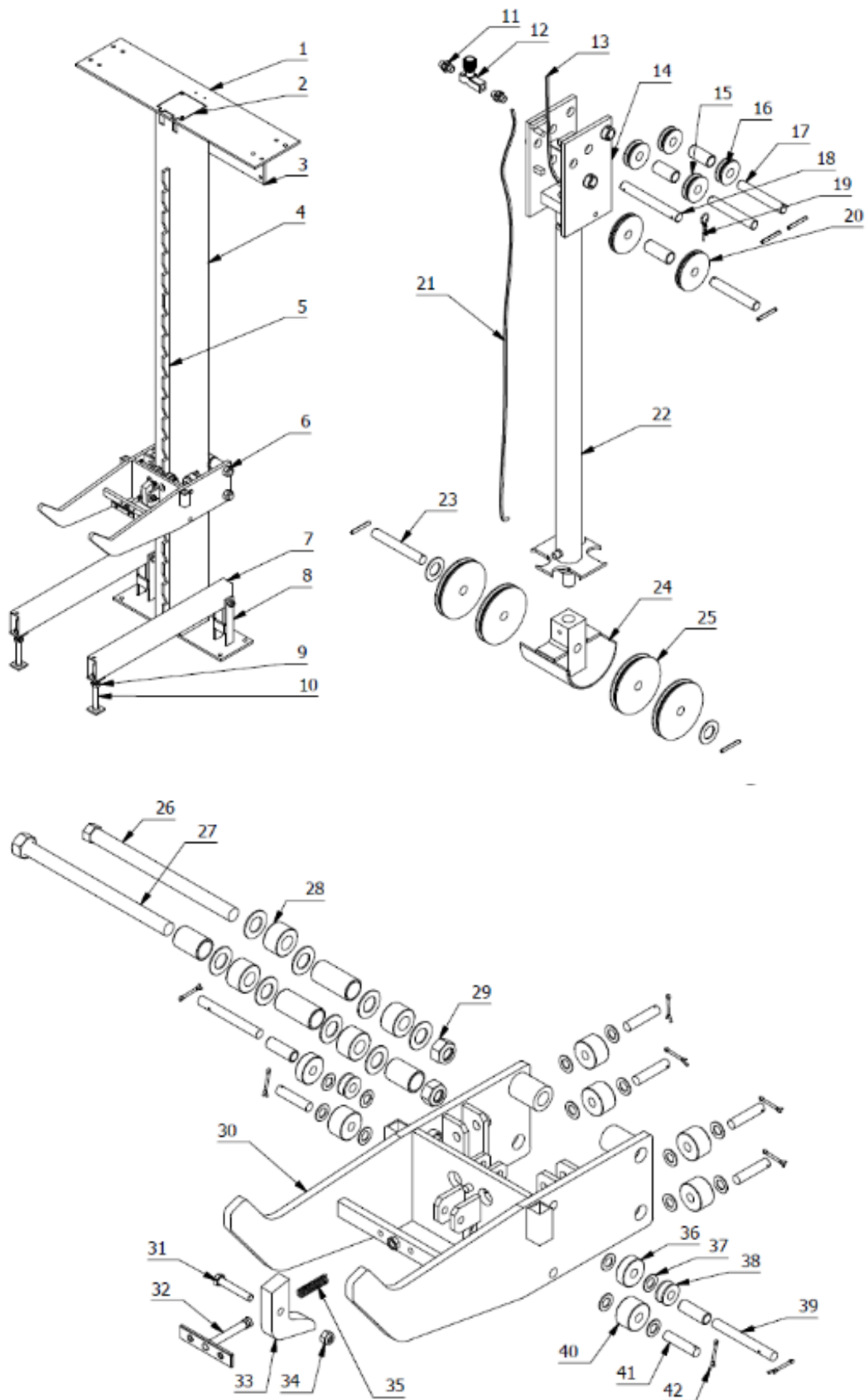
1	P01	Top Plate
2	P16	Top Cover Plate
3	P02	Back Plate
4	P18	Main Pillar Assembly
5	P60	Arrestor Strip
6	C6	Cradle Assembly
7	P31	Drop Arm
8	P19	H Bracket
9	P12	Adjusting Leg Nut
10	P11	Adjusting Leg

### Ram Assembly

12	MHS03	Straight Connector
11	MHS02	Flow Control Valve
13	MHS12	Top Hose
14	R50	Ram Head
15	R21	Exit Pulley
16	R20	Back Pulley
17	R17	Pulley Block Pins
18	R23	Main Fixing Pin
19	R24	R-Clip
20	R19	Base Pulley
21	MHS13	Standard Hose 60"
	MHS14	Long Hose 80"
22	R34	Medium Ram
	R35	Long Ram
23	R51	Clevis Axle
24	505-000004	Clevis Assembly
25	R09	Clevis Roller

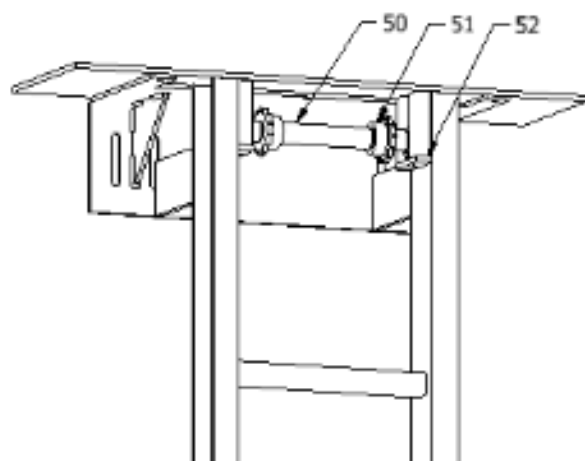
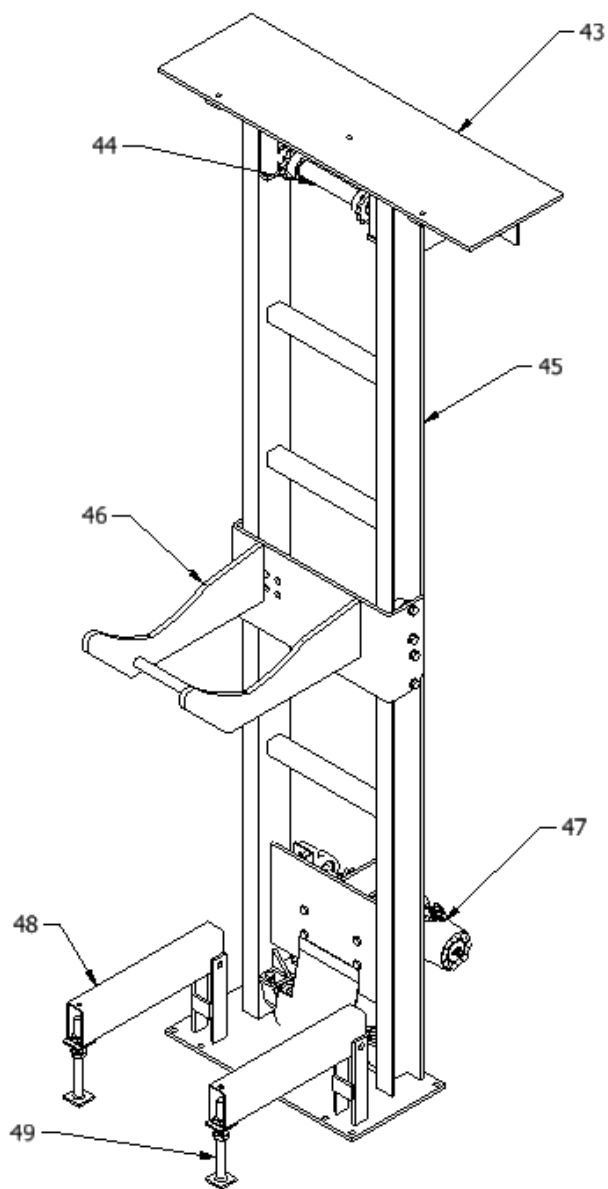
### Cradle Assembly

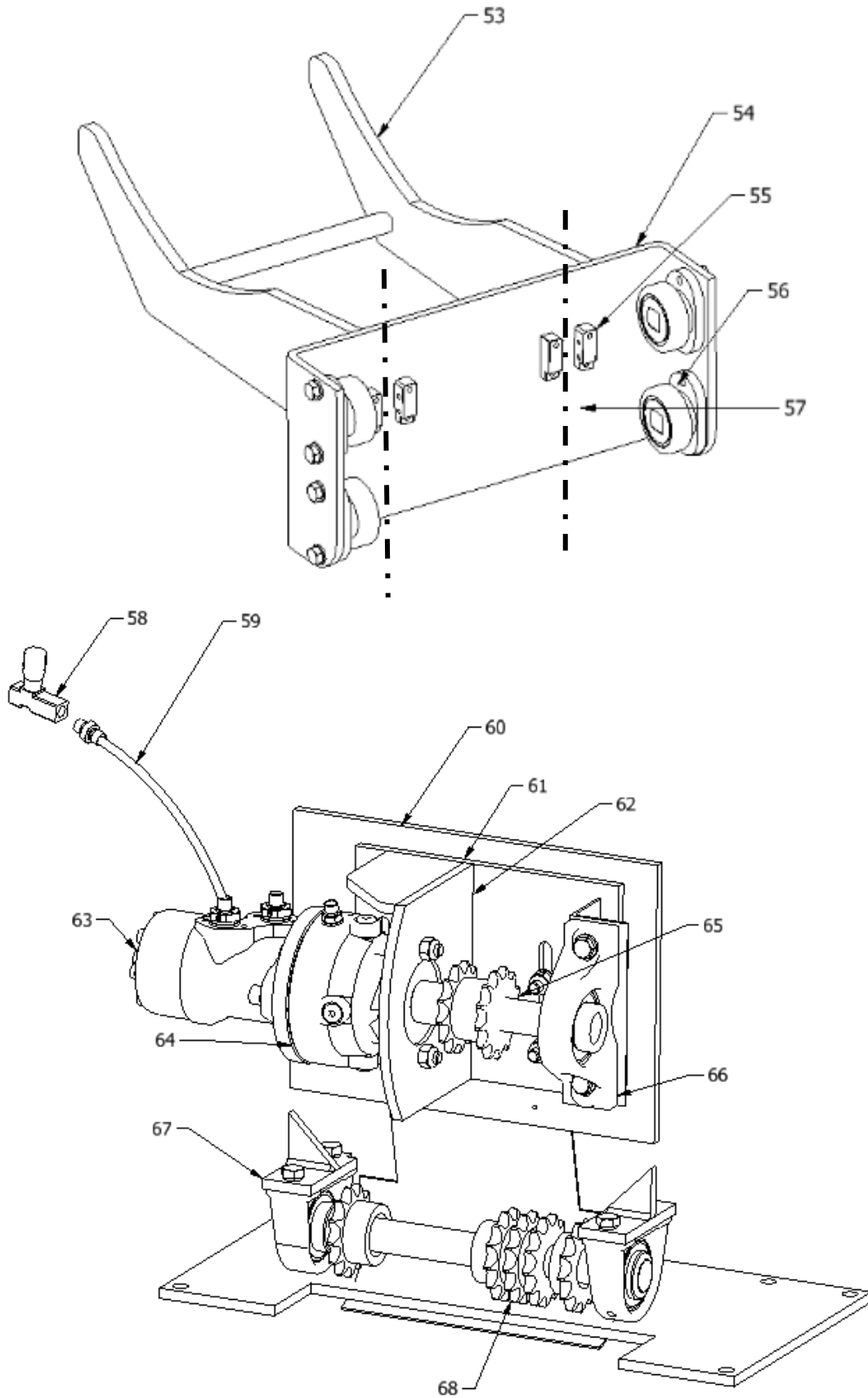
26	C11B	Cradle Top Rear Axle
27	C11	Cradle Rear Btm Axle
28	C09B	Cradle Rear Roller
29	MCL17	Top Axle Nut
30	053-000003	Cradle c/w rollers etc
31	MCL40	Pawl Bolt
32	C31	T-bar Assembly
33	C30	Pawl
34	MCL41	Pawl Nut
35	C32	Pawl Spring
36	C16	Narrow Cradle Roller
37	C04	Cradle Washer
38	C14	Cradle Guide Pulley
39	C13	Long Cradle Axle
40	C09	Cradle Roller
41	C17	Cradle Axle
42	C08	Cradle Cotter Pin
	Set A	Full set of Rollers
	017-000054	Top axle c/w Rollers
	017-000055	Bottom Axle c/w Rollers



## Chain Drive Lift Components

Main Assembly			Motor Assembly		
			58	MHS02	Flow Control Valve
43	SCL01	Top Cover Plate	59	MHS40	Short Hose
44	017-000097	Top Shaft Assembly	60	SCL28	Sprocket Guard Plate
45		Main Frame Assembly	61	SCL04	Motor Mounting Plate
46	053-000097	Cradle Assembly	62	SCL21	Motor Mounting Gusset
47		Hydraulic Drive Unit	63	R94	100cc Motor Splined
48	P31S	Drop Arm (Chain Drive)		R71	100cc Motor Keyed
49	P11	Adjusting Leg	64	R76	Brake Splined
				R73	Brake Keyed
			65	SCL18S	Main Shaft Splined
				SCL18A	Main Shaft Keyed
50	SCL17C	3/4" Sprocket (Bushed)			
	017-000096	Top Shaft (for Bearings)	66	SCL24	Bearing Block
51	SCL17	Top Shaft Bushed	67	SCL25	Bottom Shaft Bearing
52	QB07	Top Shaft Adjuster	68	SCL19	3/4" Triple Sprocket
<b>Cradle Assembly</b>					
53	SCL12	Cradle Arm			
54	SCL31	Cradle Plate			
55	CLB	Chain Link Blocks (pair)			
56	SCL55	Cradle Roller (Bushed)			
	040-000010	Cradle Roller (Cmbnd)			
57	SCL14	3/4" BS Roller Chain			





## Common Parts

P29	Drop Mat
P56	Ullage Ramp
P57	Case Tray
QP21	Operation & Service Manual
QP29	Safety Sign
QP50	Up/Down Sign
R39	Power Pack 1.8kW
SCL49	Power Pack 2.2kW – high performance
O-10	Hydraulic Oil Tellus 32
R55	Rope Per Metre
R57	Eye-Bolt
R58	Copper Ferrules
R59	Thimble
SCL15	Coupling Link
SCL16	K-1 attachment Link (Pair)
MHS03	1/4"-1/4" Straight Connector
MHS04	1/4"-3/8" Adaptor
MHS05	1/4"-1/4" 90° Elbow
MHS22	1/4"-1/2" Adaptor
MHS25	3/4" Reusable Ends
MHS42	1/4" Copper Washer
MHS60	1/2" Copper Washer
MHS90	3/8" Copper Washer
539 – 000024	Sellock Pin
MCL03	Split Pin

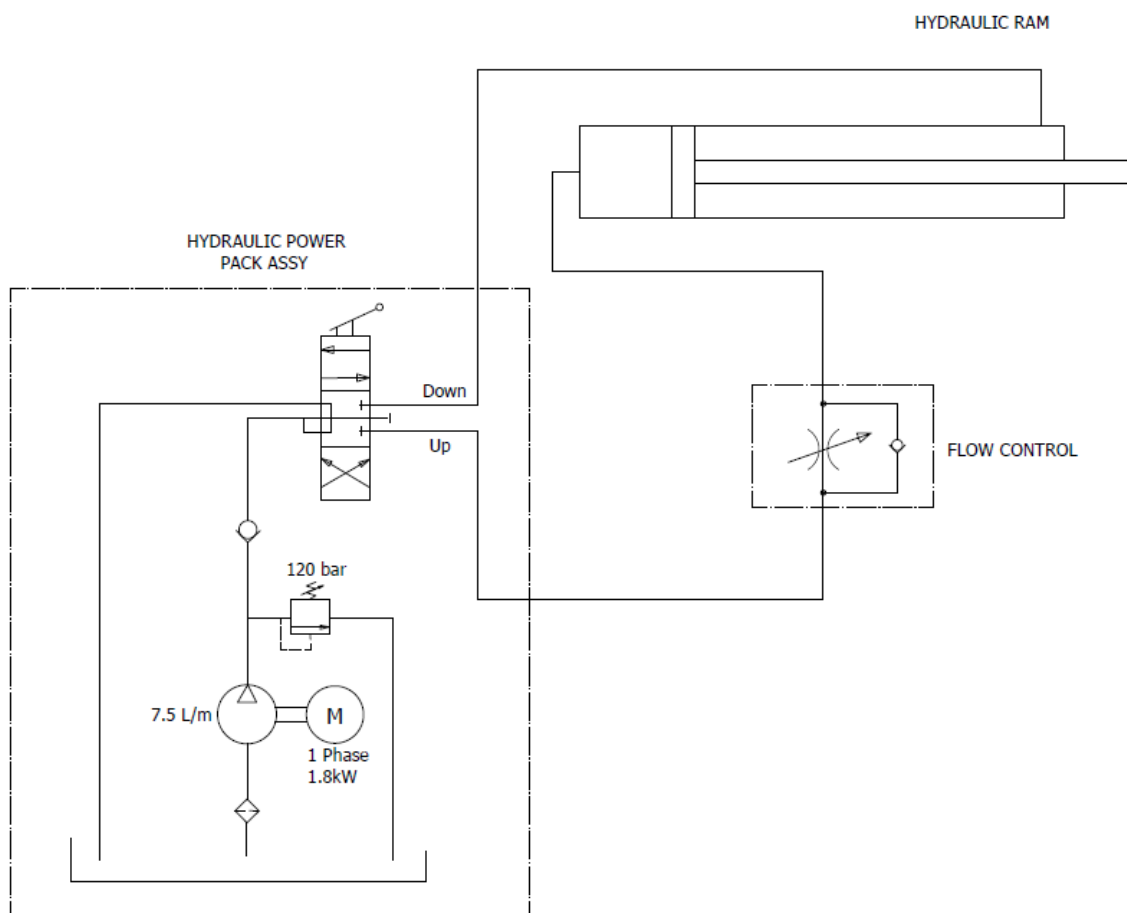
Call or email Penny Hydraulics Ltd for prompt delivery of all spare parts.

# Schematic Diagrams

## Standard Lift Wiring

All the standard lifts have their motors wired directly to a 20-amp, 240-volt, single-phase supply via a double pole switch provided by the customer. The breaker must be of a type designed to work with an electrical motor. When the power is turned on the motor runs but the lift only goes up and down when the control lever is operated. It must be turned off after use.

## Hydraulic Circuits





## Chain Drive Circuits

