

# STARKE *ARVID*

## Operator manual

Power Lift Truck 3.0



# Important!

- Read this operator manual carefully before use
- Familiarise yourself with the handling characteristics of the truck and how it behaves before you begin using it in order to ensure safe, secure and effective operation
- Remember that as operator you are responsible for ensuring that the truck is used correctly and does not pose a danger to people or property

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## Dear customer!

Thank you for choosing a STARKE ARVID® product.

We have more than 40 years of experience in the construction industry. We develop, manufacture and sell equipment for material handling aimed at professionals.

Starke Arvid's total product range features around 20 products.

To see more, visit [www.starkearvid.co.uk](http://www.starkearvid.co.uk)



## Description

The Power Lift Truck is a battery-powered truck with a lifting capacity of 1200 kg and forms part of Starke Arvid's material handling system. The truck has been developed by Starke Arvid AB to facilitate transport of plasterboard or other similar board materials. The truck has 4-wheel steering, which allows a very tight turning radius, making it flexible to handle in confined spaces.

### Description

No.	Designation
1	Material support
2	Lifting eye
3	Eye hook
4	Battery box
5	Charging compartment (see page 5)

## Safety instructions

### General

- The truck must be used as per these instructions and in accordance with the safety regulations applicable to the workplace in general and in the country where the Power Lift Truck is being used.
- Always wear steel-toe boots when working with the Power Lift Truck. Depending on the work site or type of boards, a helmet and protective gloves may also be required.
- In order to avoid unauthorised persons using the truck, never leave the key in the ignition switch (see page 5).
- Never leave the truck on a sloping surface. Even if the truck has a parking brake it may start to roll.
- Check that the Power Lift Truck is not damaged in any way that may jeopardize safety before using it.
- The Power Lift Truck must never be towed with the magnetic brake (parking brake) activated.

### Manoeuvring

- The operator must pay attention to the surroundings when using the truck and ensure a good safety margin in case unexpected situations arise.
- Plan your route and make sure it is clear and navigable. Avoid surfaces where the truck may tip or skid. Remember to take great care at corners and crossings.
- Bear in mind that excessive speed in tight spaces constitutes a major safety risk.
- Don't make sharp turns at fast speeds. The stability of the truck is reduced when turning.
- The truck turns on all four wheels in order to facilitate manoeuvring in tight spaces. However, remember that this means the turns are tight.
- Use the Power Lift Truck only in locations with satisfactory lighting.
- Always keep both hands on the control handle for all manoeuvring.
- The Power Lift Truck has moving parts that may constitute a risk of crushing. Therefore it is essential when raising and lowering loads to make sure that no one is within the risk area.
- The Power Lift Truck is not designed for transporting people.

### Loading

- The Power Lift Truck is designed for transporting plasterboard and other board materials.
- The load must always be centred across the material supports (see page 3). The Power Lift Truck is not designed to carry loads on the platform and should never be used in this way.
- The truck must never be loaded so that the height of the load exceeds 650 mm. The maximum load of 1200 kg must not be exceeded.
- Always secure the load using straps through the eye hooks (see page 3) if there is a risk of shifting of the load.

### Warning sticker

This warning sticker covers some of the most important points to bear in mind prior to using the truck and must be affixed to all Power Lift Trucks.



## MAXIMUM LOAD 1200 kg



- Read the instructions before use
- Moving parts, be aware of crush hazard



- Familiarize yourself with the transport carriage driving characteristics before you use it

## Control panels and safety devices



## Safety devices

The truck is equipped with a standard-type control handle for pallet stackers and similar equipment.

It has a number of integrated safety functions.

- Emergency stop, which immediately stops the truck in its current position.  
**NB!** Emergency stop must only be used in emergency situations.
- Safety switch ("Belly switch"), which stops the movement of the truck when pressed. Once the truck has stopped it backs up around 1,3 m to avoid any risk of crushing if the safety switch is still activated.
- Dead man's switch, which must be kept depressed when manoeuvring or when raising or lowering a load.
- The safety switch ("Belly switch") is for protection against crushing.

## Description

No.	Designation
1	Raising/lowering
2	Direction & speed control
3	Safety switch (belly switch)
4	Dead man's switch
5	Emergency stop
6	Ignition switch
7	Battery charging cable
8	Battery indicator and operation indicator
9	Battery isolation switch

## Safety test (before use)

The truck must undergo a daily safety test before use. This test must be performed without any load.

**NB!** If it fails the safety test on any of the points, it must not be used!

- Inspect the mechanical components for any wear or damage that may affect safety.
- Press and hold the dead man's switch (see page 5) and roll the truck forward and back. Release the dead man's switch and try to roll the truck forward and back. This should not be possible.
- Wheel the truck towards you and press the safety switch (see page 5) on the handle. The truck should stop immediately and begin to back away, approximately 1,3 m.  
**NB!** This test must be performed in an open area where there is no risk of being trapped between the truck and any other object or walls.
- Wheel the truck away from you and press the emergency stop (see page 5). It should stop after around 0.5 m and it should not be possible to operate the functions of the truck until the emergency stop has been reset.
- Wheel the truck forward at full speed and release the dead man's switch completely. It should stop after around 0.5 m.

## Lifting/Transporting the Power Lift Truck

### General

The truck is equipped with a lifting eye (see page 3) located in the centre of the platform. This is intended to be used when lifting with a crane, for example. The truck can also be loaded/unloaded from lorry platforms, etc. using a fork-lift truck or similar.

**NB!** The truck must only be lifted without any load.

### Lifting using a crane

- Make sure that all hatches are closed and locked and that there are no loose parts on the truck.
- The ignition switch (see page 5) must always be turned off when lifting/transporting.
- When lifting by crane, use the lifting eye.

### Lifting using a fork-lift truck

This method of lifting the truck is only intended for short lifting operations, such as off or onto a lorry platform or similar. For longer lifting operations, a crane should be used (see above).

- Make sure that all hatches are closed and locked and that there are no loose parts on the truck.
- The ignition switch must always be turned off when lifting/transporting.
- Position the forks under the electrical boxes (charging compartment) (see page 3).

**NB!** Be aware of the tie rods (see page 3) under the platform and ensure that these are not damaged when inserting the truck forks under the platform

## Manoeuvring

### Forward/back

The speed is continuously adjustable by varying the pressure on the control.

- Press and hold the dead man's switch (see page 5) and then push the direction & speed control (see page 5) down to the required position. Release the control to stop the truck. Then release the dead man's switch once the truck is at a standstill.

### Braking

- When the speed control is released, the truck brakes gently and stops. This is the normal method of braking.
- When the dead man's switch is released, the truck stops dead and the parking brake is engaged. This function is only intended to be used if a situation arises where the user wants the truck to stop as quickly as possible.

**NB!** For maximum service life from your Power Lift Truck, it is recommended that the speed control always be released first, and then the dead man's switch once the truck has stopped.

### Raising/lowering

- Press and hold the dead man's switch and then press the required button on the control handle for raising or lowering (see page 5). Keep it depressed until the desired position is reached.

## Loading/unloading boards

### General

The Power Lift Truck should be loaded using a fork-lift truck, a Starke Arvid Inlift Frame or a pallet fork for a crane.

The truck should be unloaded using Starke Arvid Trestles. The weight and length of the board material determines how many trestles are needed, but at least 3 is always recommended. The material supports mounted on the truck have a folding function that prevents them from getting caught on the trestles when unloading boards.

**NB!** The Power Lift Truck's maximum load limit of 1200 kg must not be exceeded.

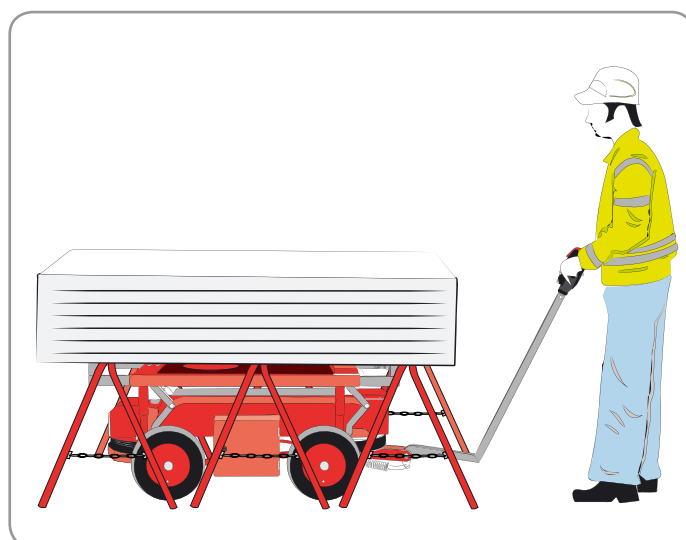
### Loading boards

- Before loading, adjust the material supports (see page 3) to the length of the boards. Adjust them so that the boards protrude equally from the platform and the batch of boards does not sag.
- Maximum load height is 650 mm.
- The load must be evenly distributed.
- Always secure the load using straps through the eye hooks (see page 3) if there is a risk of shifting of the load.



### Unloading of boards onto trestles

- Raise the load to the highest position.
- Position the front trestle immediately in front of the front material support, the rear trestle immediately behind the rear support and an additional trestle centred between the two.
- If you need more trestles, always centre them between the front and rear trestles.
- Lower the load onto the trestles and check that everything is stable and the load is evenly distributed on the trestles.





## After use (storage)

- Check the charge level of the batteries using the battery indicator (see page 5) and charge as needed. See below for instructions regarding charging.  
**NB!** To prevent the batteries suffering damage as a result of prolonged storage of over 3 weeks, trickle charging is always advised (fully charged).
- Switching off the truck. You do this by setting the ignition switch (see page 5) to the 0 position.

**NB!** In the event of prolonged storage, the truck must be switched off to prevent damage to the batteries. This is due to the fact that there is always a certain amount of power consumption as long as the ignition is switched on.

## Inspection

Carry out regular inspections of the truck to ensure that it is free from defects when it is required for use.

### Check that:

- The truck's mechanical components have not become worn or damaged, so that this affects the safety or performance of the truck.
- The control handle is firmly fixed and not damaged.
- All functions on the control handle function correctly.
- The material supports (see page 3) are undamaged and the built-in folding function works as it should and that the anti-slip protectors on the supports are in place and undamaged.
- The wheels are not damaged or worn and in need of replacement.
- The lifting eye (see page 3) on the truck platform is not damaged.
- There are no leaks from the gearbox, batteries or hydraulic unit.
- All visible electric cables are undamaged.

## Troubleshooting

If the truck is not working, check that:

- The ignition switch (see page 5) is turned on
- The emergency stop (see page 5) is not activated
- The hatch for the charger is closed and locked
- The batteries are not discharged (see page 10)
- The dead man's switch (see page 5) is kept depressed
- The battery isolation switch is turned on (see page 5)

## Charging/batteries

**NB!** The truck contains batteries with battery acid. Wear safety goggles when handling batteries. Take great care with leaked acid. Acid can only normally leak if the truck has tipped. Rinse immediately with plenty of water if acid comes into contact with skin or eyes, and contact a doctor.

### General

- Never charge the truck if the battery charger's connection cable (see page 5) is found to be damaged. This represents a danger to life!
- Charging must always take place in a designated location, which must be dry and well ventilated. This location must be away from any sparks from an angle grinder, open fire or smoking, etc.
- Charging of the batteries should not commence immediately after use. Allow the batteries to cool first.

To prevent the batteries suffering damage as a result of prolonged storage of over 3 weeks, trickle charging is always advised (fully charged).

### Charging

- Check the charge level of the batteries using the battery indicator (see page 5). Charge as needed.
- Switch off the ignition switch (see page 5).
- Connect to an earthed wall socket of 110 V or 230 V depending on model. The charging time is approximately 8 hours when the batteries are completely discharged.

### Battery indicator

There are five LEDs, four green and one red, which indicate the charge level of the batteries. All the green LEDs light up to indicate fully-charged batteries. The green LEDs go out as the charge level of the batteries drops. When the batteries are fully discharged, the red LED lights up.

## Servicing/maintenance

### General

The main power switch must be turned off for servicing (see page 5). The truck is designed to cope with the requirements and the environment on a building site, but service life and safety may be considerably reduced if the stated servicing/maintenance points are not observed.

### Cleaning

Clean the truck regularly with a damp sponge, brush or vacuum cleaner.

**NB!** The truck must not be washed with running water, as this may cause damage to certain components.

### Lubrication

In order to safeguard the truck's performance and avoid unnecessary repair costs, it is essential to lubricate the truck's moving parts regularly and as needed.

**NB!** Bear in mind that any prolonged and repeated contact with oils and lubricants constitutes a health risk; wear protective gloves and goggles as needed.

**Hydraulic oils:** Q8 Handel 32

**Lubricant:** Mobil Mobilux EP2

**Transmission oil:** Shell Spirax

## Technical data

### Power Lift Truck

Part no:	18800
Maximum load:	1200 kg
Width:	720 mm
Length excluding steering handle:	1720 mm
Height to material support:	615–745 mm
Weight (empty):	370 kg
Max. load dimensions (LxWxH):	3000x1250x650 mm
Distance between material supports:	1300–1960 mm
Wheel:	Solid rubber wheel
Battery pack:	24 V system, 115 Ah
Charging time:	Approximately 8 hours with fully discharged batteries
Battery charger:	Fixed charger in the Power Lift Truck
Speed:	0–6 km/h
Steering:	4-wheel steering
Operation:	Rear-wheel drive
Lifting device:	Hydraulic

#### Service/Spare parts:

Our network of dealers serves as basic assurance for STARKE ARVID® products. If you have any questions regarding servicing or spare parts, contact your dealer or Starke Arvid AB direct.

#### Guarantee:

Starke Arvid AB provides a one-year guarantee for defects arising after normal use of the truck. Please note that the guarantee does not cover the batteries supplied, as these are regarded as consumable items. Starke Arvid AB is not liable for faults arising as a result of incorrect use, inferior maintenance or for normal wear and tear.

*Produced and marketed by:*

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## DECLARATION OF CONFORMITY

(AFS 2008:3, Appendix II 1A)

Manufacturer (or the manufacturers representative):

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Responsible for technical documentation

Name	Peter Barck
Company	Starke Arvid
Adress	Lyckåsvägen 3, 459 30 Ljungskile

Declare under own responsibility:

Machine type:	EL-8 3.0
Typ nr.:	18800
Machine nr.:	

to which this declaration relates is in conformity with the following directive or other documentation of regulation:

Machinery Directive 2006/42/EG  
EMC 2014/30/EU  
LVD 2014/35/EU

Is manufactured according to (or parts of) following harmonize standards:

SS EN ISO 3691-1:2016  
SS EN ISO 3691-6:2015  
SS EN 1175-1+A1:2010

Authorized person

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