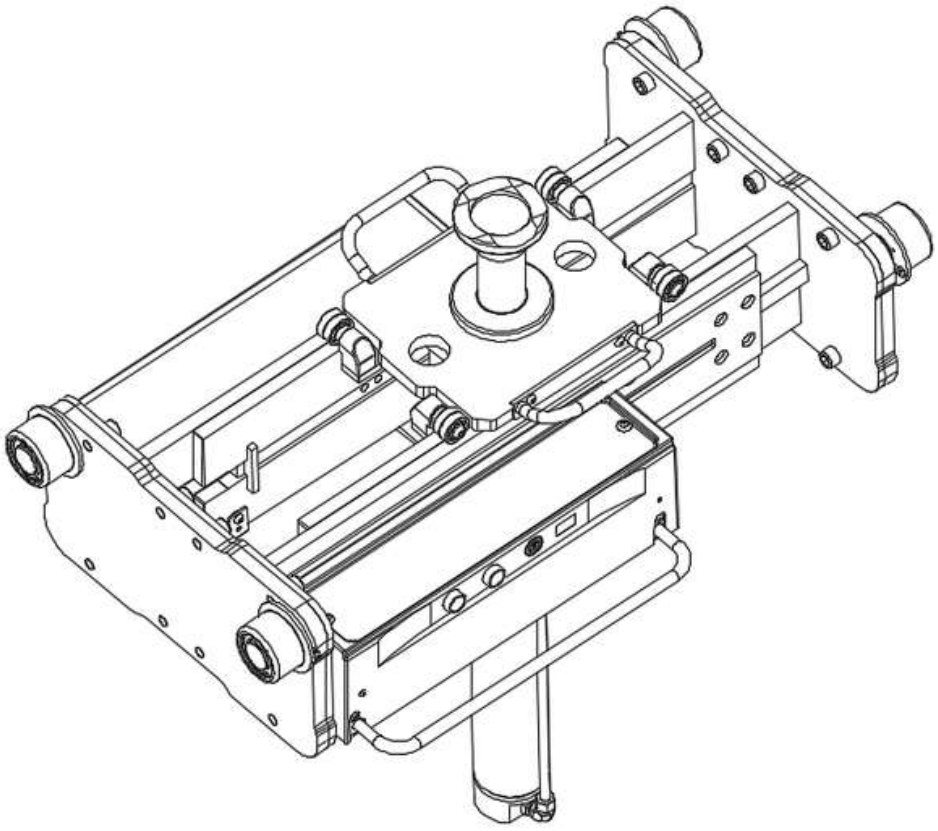
Falco



User Manual
Electric Pit Jack
Type -PK15LME



032026

Read this manual carefully before using the pit jack.

Table of contents

		Page
1	General description	4
2	Scope of application	4
3	Safety regulations	4
3.1	Overload protection	4
3.2	Mechanical protection / safety lock	5
4	Technical data	5
5	Symbols	6
6	Product overview	7
7	Preparation	7
8	Assembly	7
8.1	Setting width	7
8.2	Selecting & attaching adapter plates	8
8.3	Mounting handle	9
8.4	Mounting safety column	9
8.5	Positioning on rails	9
8.6	Placing the pit jack in the pit	9
8.7	Hose routing	10
9	Battery	10
9.1	Installation	10
9.2	Use	10
9.3	Charging	11
9.4	Storage	11
10	Operation	11
11	Pre-use check	11
12	Inspection & maintenance	12
12.1	Daily inspection	12
12.2	Monthly inspection	12
12.3	Monthly maintenance	12
12.4	Semi-annual / annual maintenance	12
12.5	Oil change procedure	13
13	Troubleshooting	13
14	Prohibited actions	13
15	Accessories	14
16	Schematic representation	15
17	Warranty	16
18	EU Declaration of Conformity	17

Saving the user manual

Keep this user manual carefully. The information in this document may be required for installation, use, maintenance, or troubleshooting. Always keep the manual accessible for future reference. This user manual contains important safety instructions and legal information. Retain the document for the entire lifespan of the product. Always include the manual when the product is resold, transferred, or moved. It is mandatory to keep this user manual in a centrally accessible location. Employees working with this product must have access to the most recent version of this documentation at all times.



Dispose of electrical appliances in an environmentally friendly manner. Do not throw electrical appliances in with household waste. In accordance with European Directive 2012/19/EU on electronic equipment, they must be collected separately for recycling. Contact your local authorities for available disposal options for your worn-out appliance.

© 2026 Falco. All rights reserved. No part of this publication may be reproduced, stored in an automated data file, or made public in any way without the express prior written permission of the publisher, except as provided by law.

1. General description

This electric pit jack is designed for lifting vehicles into inspection pits.

- Maximum capacity: 15 tons
- Drive: electric (lithium-ion battery)
- Hydraulic system: oil-driven
- Single cylinder

Use only according to this manual.

2. Scope

The pit jack is intended exclusively for:

- Lifting of vehicles
- Use in inspection pits with rails

Not allowed:

- Lifting of persons
- Use a well outside
- Permanent support of burdens

3. Safety regulations

- Use only by instructed personnel
- Wear safety shoes and gloves
- Keep hands away from moving parts
- Beware of pinch hazard
- Use axle stands after lifting
- Do not use in case of leakage, damage, or vibrations.
- Always work on a stable and flat surface.

3.1 Overload protection

The pit jack is equipped with overload protection in the form of a pressure regulating valve on the hydraulic pump.
This valve ensures that the pressure in the hydraulic system is automatically limited. When the pressure exceeds the preset value, the pressure regulating valve opens and excess pressure is released. This prevents the pit jack from being overloaded.

 **Important**
The overload protection is intended solely as a safety feature and must not be used as a normal operating function. It is not permitted to exceed the maximum capacity of the pit jack.

3.2 Mechanical security / safety interlock

The pit jack is equipped with a safety device in the form of an explosion-proof valve (hose rupture protection) on the underside of the hydraulic cylinder.

This valve is designed to secure the load in the event of a malfunction in the hydraulic system. When a hydraulic hose (oil line) is damaged or suddenly ruptures, the valve activates automatically. The valve shuts off the oil flow, blocking the cylinder and preventing the piston rod from descending.

This prevents the load from dropping unexpectedly in the event of a defect in the hydraulic system.

Important
This safety feature operates automatically and requires no manual operation. However, it is not a substitute for the use of mechanical support such as axle stands. Always use suitable axle stands after lifting a vehicle.

4. Technical data

• Capacity	15 ton
• Slag	800 mm
• Minimum height	1020 mm
• Max. height	1820 mm
• Width	600 - 1400 mm
• Depth	665 mm
• Drive	Electrically hydraulic
• Hydraulic system	Oil-driven
• System voltage	36 V
• Nominal power	800 W
• Accu	2 x 18 V / 4.0 Ah
• Cylinder	Single cylinder
• Weight	278 kg

5. Symbols



Read and understand the user manual before using the lift.



Wear safety shoes when using the pit jack.



Wear safety gloves when using the pit jack.



Use axle stands with the correct capacity after lifting.



Use a wheel chocks before lifting the vehicle with the pit jack.



Do not use the pit jack on a sloping surface.



Warning: electrical voltage.



Warning: risk of entrapment.



Warning: hand injury due to entrapment.



Note: take into account the center of gravity of the load.

6. Product overview

- Important components:
- hydraulic reservoir
- Electric pump
- Hefkolom
- Frame met rails
- Control panel
- **Please note:** delivered without battery and charger

7. Preparation

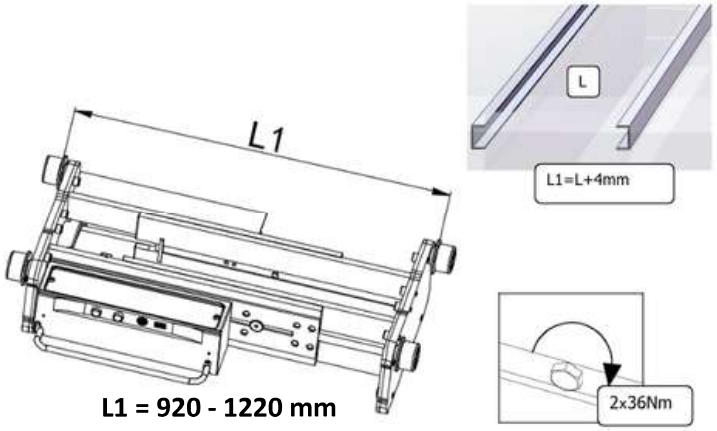
Check before assembly:

- Completeness of parts
- No damage
- Workplace stable and level
- Batteries charged

8. Montage

8.1 Setting width

Set the width of the pit jack according to L1 = L + 4 mm and tighten the mounting bolts to 2 × 36 Nm.



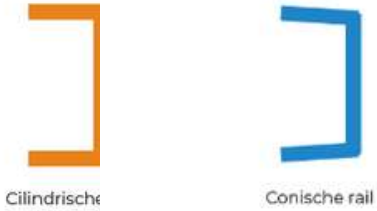
L1 = 920 - 1220 mm

8.2 Selecting & attaching adapter plates

Please note: the pit jack is supplied without adapter plates. These can be selected based on the dimensions of the pit and the type of rails in the workshop pit.
The rails in the pit must be fitted with rollers. Always select the type of roller (cylindrical or conical) based on the rail already installed in the pit.

1. Choose the right role.
   First determine which type of rail is present:

- Cylindrical rail
- Conical rail



2. Select the correct adapter plate:

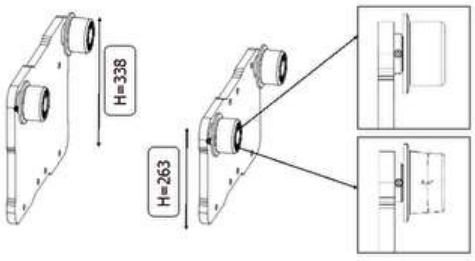
- PK01A - Short plate - cylindrical wheels
- PK02A - Long plate - cylindrical wheels



- PK01A - Short plate - cylindrical wheels
- PK02A - Long plate - cylindrical wheels



3. Ensure that the adapter plates are correctly positioned according to the specified dimensions (e.g. H = 338 mm) to guarantee proper alignment.



⚠ After adjustment, check that all **M16x25 mm** mounting bolts are tightened correctly. **290 Nm**

8.3 Mounting the handle (figure 2)

- 4 × M8 × 16
- Tightening torque: 35 Nm

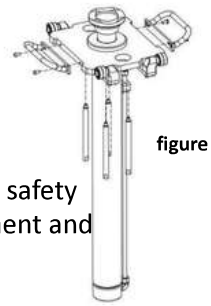
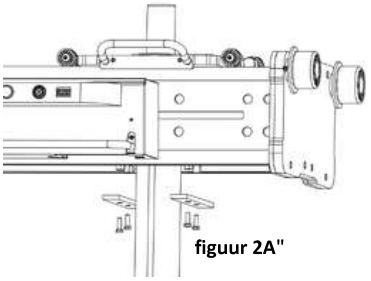


figure 2"

8.4 Montage kolom (figuur. 2A)

Mount the pit jack on the support and secure it to the safety column with the 4 M8x20 bolts. Ensure correct alignment and secure fastening. Torque: 36 Nm.



figuur 2A"

8.5 Positioning on rails (Figure 3)

Max deviation:

- 2 mm/m
- 5 mm total
- 8 mm max

Poor alignment causes damage

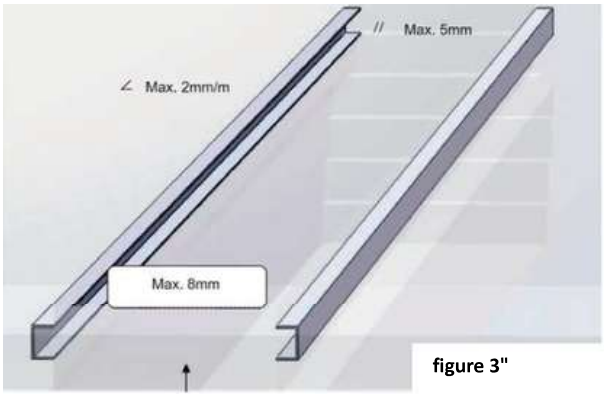
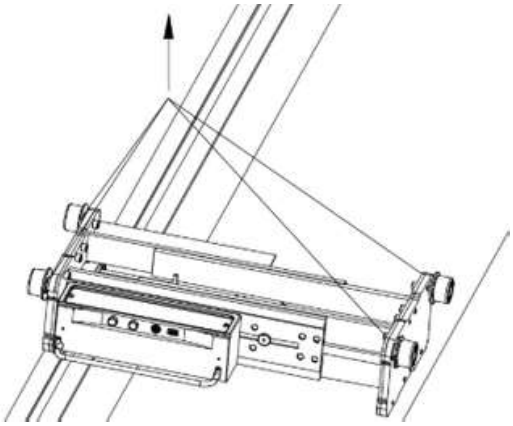
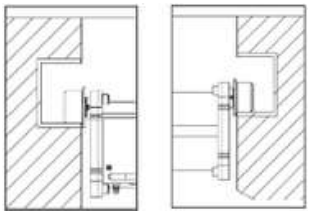


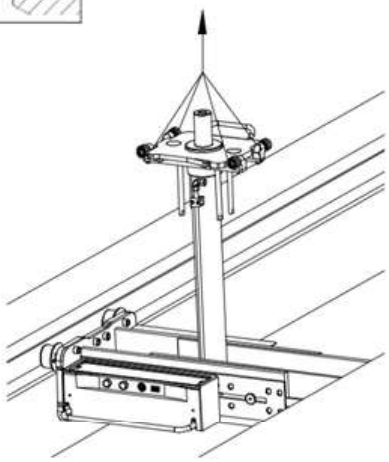
figure 3"

8.6 Placing the pit jack in the pit

Carefully place the pit jack into the inspection pit using suitable lifting equipment. Ensure that the pit jack is correctly positioned on the rails before further assembly takes place.







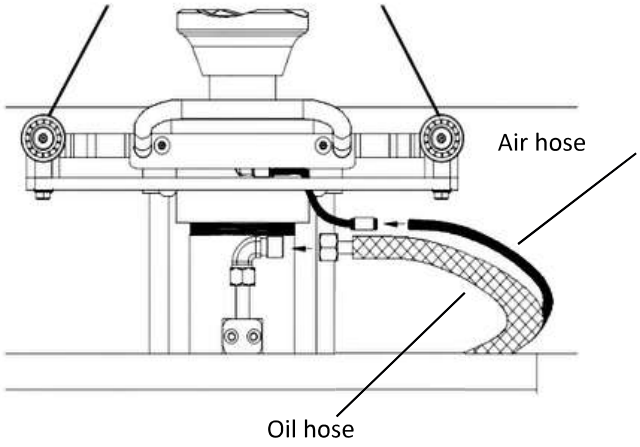
⚠ Use only suitable lifting slings and lifting points.

8.7 Hose routing

Snakes must:

- Being able to move freely
- Don't nod
- Not under tension

Ensure sufficient clearance during movement.

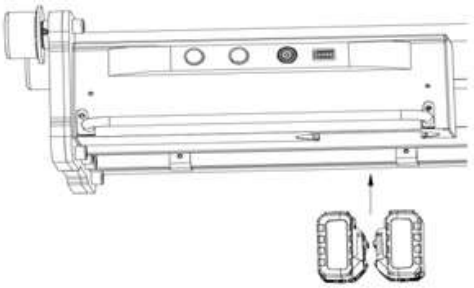


⚠ Incorrect hose routing can lead to damage or leakage of the hydraulic system.

9. Accu

9.1 Installation

- 2 × battery **18V Fluxon 4.0Ah (item no. IBC18V4)**
- Insert the battery correctly and ensure it is properly locked.



9.2 Use of the battery

- Use only original or manufacturer-approved batteries.
- Do not use the pit jack when the battery is nearly empty, as this may affect operation.

9.3 Charging the battery

- Use only the supplied or approved charger.
- Check that the battery is undamaged and dry before charging.
- Connect the charger to a suitable power outlet and place the battery correctly in the charger.
- Fully charge the battery before using it for the first time.
- Charging is complete when the indicator on the charger shows green.
- Disconnect the charger after fully charging.

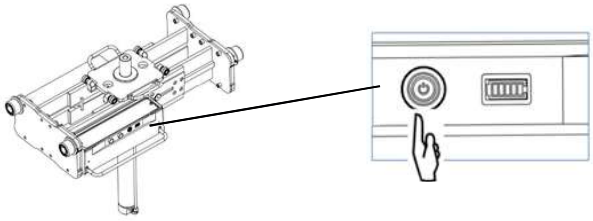
9.4 Battery storage

Store the battery:

- in a dry and well-ventilated place
- at a temperature between 10°C and 25°C
- Store the battery partially charged (±40–60%) during long-term storage.
- Keep batteries out of reach of unauthorized persons and children.

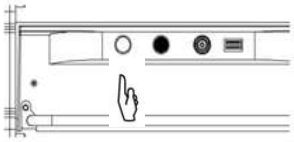
10. Ministry

Turn on/off
Press "power"



Levy

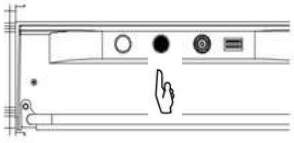
- Push button up
- Electric pump activates
- Column rises



To fail

- Press button down
- Column descends in a controlled manner

Always keep the load in sight



11. Check before use

- Oil leak
- Damage
- Loose bolts
- Accuniveau

12. Inspection & Maintenance

12.1 Daily inspection (before each use)

- Perform a visual and functional check before use:
- Check for oil leaks at hoses, couplings, and cylinder.
- Check for damage to the frame, columns, and components.
- Check that all bolts and connections are tightened.
- Check the battery level.
- Check that the pit jack moves freely and smoothly.
- Check that the hoses are free and not kinked or under tension.

⚠ Do not use the pit jack in case of abnormalities, damage, or leakage.

12.2 Monthly inspection

Perform a more thorough check monthly:

- Check all mounting bolts for torque.
- Check wear on moving parts and guides.
- Check the condition of:
  hoses
  couplings
  hydraulic components

Check for abnormal noises or vibrations during use.

12.3 Monthly maintenance

- Apply oil and grease to all moving parts:
  guides
  bearing points
  hinges
- Clean the pit jack to prevent dirt from accumulating.
- Check and repair minor wear if necessary.

12.4 Semi-annual / annual maintenance

- Hydraulic oil change: First time after 6 months, then annually or every 500 operating hours.
- Check the entire hydraulic system for:
  - leakage
  - pollution
  - correct operation

Frequentie	Type	Activiteit
Dagelijks	Inspectie	Visuele controle, lekkage, accu, werking
Maandelijks	Inspectie	Bouten, slijtage, slangen, werking
Maandelijks	Onderhoud	Smeren, reinigen
6 maanden / jaarlijks	Onderhoud	Olie verversen

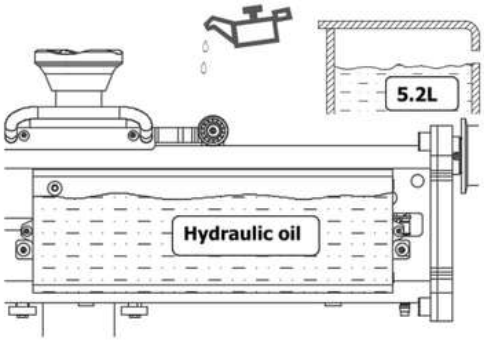
⚠ Important

- Maintenance may only be carried out by qualified personnel.
- The pit jack must be inspected annually by a certified company to ensure safe operation.
- Use only suitable lubricants and hydraulic oil **(OCH32V)**.
- Always perform maintenance with the pit jack unloaded and switched off.

12.5 Oil change procedure

1. Lower the pit jack completely (unload).
2. Turn off the system and remove the batteries.
3. Place a drip tray under the hydraulic reservoir.
4. Open the drain plug or remove the hose (if applicable).
5. Let all the oil drain completely.
6. Shut down the system correctly again.
7. Fill with new hydraulic oil via the filler plug on top of the reservoir.
8. Fill to the correct level (± 5.2 liters).
9. Move the pit jack up and down a few times to remove air.
10. Check the oil level and top up if necessary.

Recommended:
OCH32V hydraulic oil



13. Malfunctions

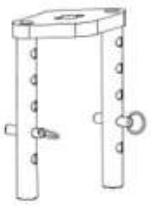
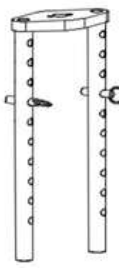
Probleem	Mogelijke oorzaak	Oplossing
Beweegt niet	Accu leeg	Accu opladen
Langzaam	Lage olie	Olie bijvullen
Schokt	Lucht in systeem	Ontluchten
Lekkage	Slang/koppeling	Controleren

14. Prohibited acts

- Overloading (>15 tonnes), The pit jack must not be loaded above the maximum capacity of 15 tonnes.
- Uneven loading
- Use in case of damage
- Maintenance-free use
- Use without axle stands

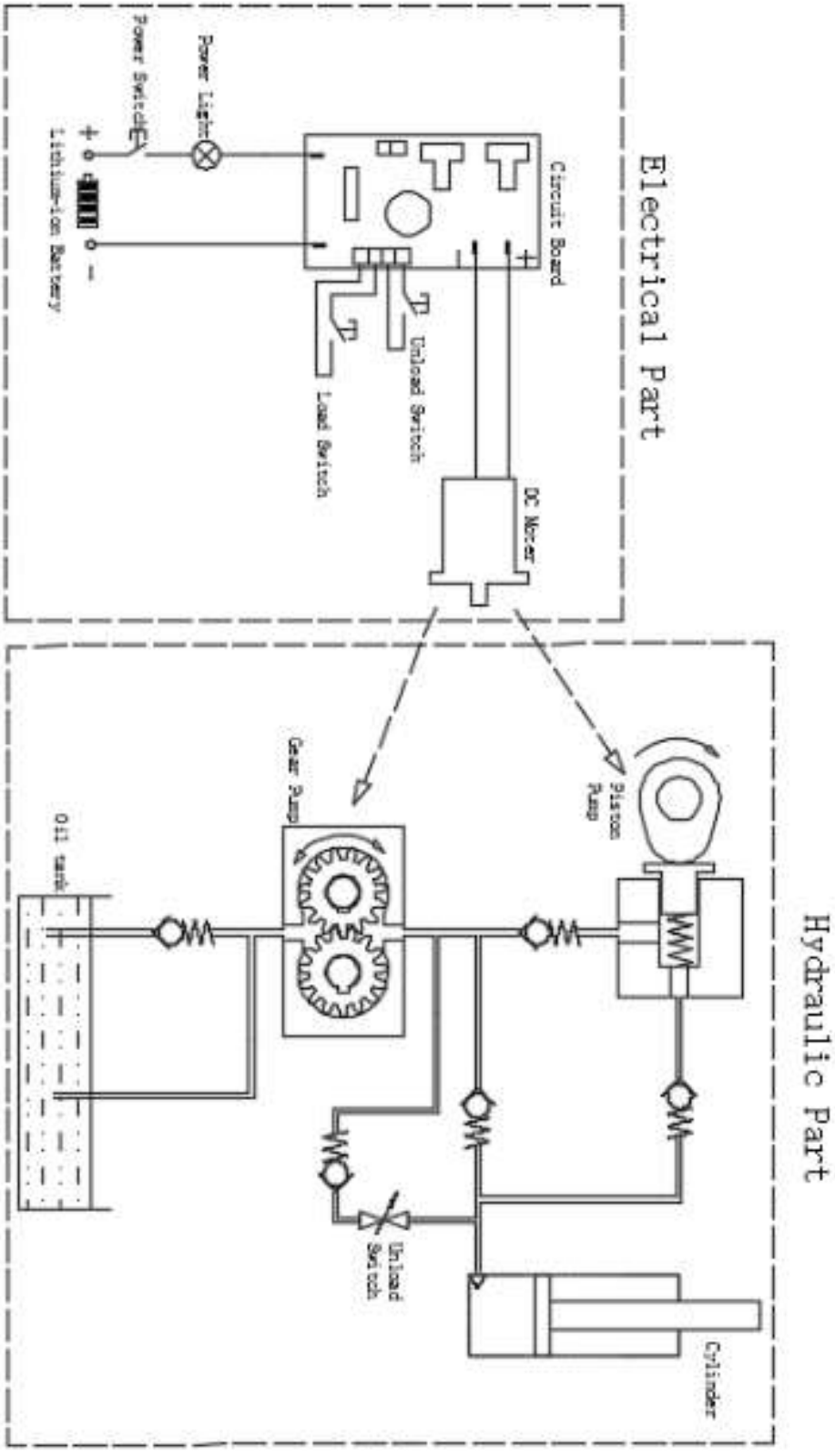
15. Optional options - accessories

The use of accessories with a lower capacity than the pit jack is not permitted.

	PPK15LME-01	Adapters for crossbar
	PPK15LME-02	V-hit
	PPK15LME-03	U-saddle
	PPK15LME-04	Extension piece 100 mm
	PPK15LME-05	Extension piece 200 mm
	PPK15LME-06	Integrated safety support • Optionally, the pit jack can be equipped with an integrated safety support for mechanical securing of the load.
	PPK15LME-07	Integrated safety support • Optionally, the pit jack can be equipped with an integrated safety support for mechanical securing of the load.

16. Schematic representation

This diagram shows the operation of the electro-hydraulic system.



17. Warranty

Warranty Terms and Conditions

1. This warranty shall enter into force on the date stated on the original purchase invoice and shall remain valid for a period of twelve (12) months.

2. This warranty is non-transferable unless prior written consent has been obtained from the supplier.

3. Warranty claims will not be accepted without presentation of the original purchase invoice.

4. This warranty shall apply exclusively provided that the product has been used in full compliance with the instructions contained in the user manual and solely for its intended purpose.

5. No alterations, modifications, or technical changes may be made to the product.

6. This warranty shall be void in the event of improper, negligent, or incorrect use of the product.

7. Transportation, shipping, and related costs are expressly excluded from this warranty.

8. Any repair work must be carried out exclusively by the supplier or an authorised service partner. Repairs performed by unauthorised third parties shall immediately void all warranty rights.

9. Repairs performed during the warranty period shall not result in an extension of the original warranty period. However, a separate warranty period of three (3) months shall apply to the repaired components, provided that the original warranty period has expired.

10. All maintenance and servicing operations described in the user manual must be performed in a timely and proper manner. Failure to do so may result in the warranty becoming void.

11. Warranty claims may only be submitted to the original point of sale at which the product was purchased.

19. EG-Verklaring

EU Declaration of conformity – Konformitätserklärung - Declaration de conformite

Wij, Valkenpower BV, Haverkamp 11, 6051 AC Maasbracht, Nederland, verklaren geheel onder eigen verantwoordelijkheid dat het product
We, Valkenpower BV, Haverkamp 11, 6051 AC Maasbracht, Nederland, declare under our sole responsibility that the product described below
Wir, Valkenpower BV, Haverkamp 11, 6051 AC Maasbracht, Nederland, erklären in alleiniger Verantwortung, dass das nachfolgend beschriebene Produkt
Nous, Valkenpower BV, Haverkamp 11, 6051 AC Maasbracht, Nederland, déclarons sous notre seule responsabilité que le produit décrit ci-dessous

Type *Model* *Art* *Tipe*	*Beschrijving* *Description* *Beschreibung* *Description*	*Merk* *Brand* *Marke* *Marque*
PK15LME	**Putkrik**	**Falco**
PK15LME	**Pit Jack**	**Falco**
PK15LME	**Naja, Jack**	**Falco**
PK15LME	**Eh bien, Jack**	**Falco**

Voldoet aan de bepalingen van de volgende richtlijnen; Complies with the provisions of the following directives; entspricht den Bestimmungen der folgenden Richtlinien; se conforme aux dispostions des directives suivantes

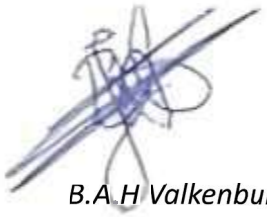
De machinerichtlijn:Following the provisions of the following Directives:Gemäβ den Bestimmungen der Richtlinie:Conformément aux dispositions de la Directive:
2006/42/EG
2014/30/EU

Waarop deze verklaring betrekking heeft, in overeenstemming zijn met de volgende normen:
To which this declaration relates is in conformity with the following Directives:
Auf dem sich diese Erklärung bezieht, mit dem folgendem Dokument übereinstimmt:
Auquel se réfère cette déclaration est conforme à le document suivant:

Normen: **EN ISO 12100:2010; EN 60204-1:2018; EN 1494:2000+A1:2008; EN ISO 4413:2010**

Serienummer: Serial number:

Directeur Valkenpower



Nederland, Maasbracht, 31-03-2026

B.A.H Valkenburg