

GB Instruction for use
DK Brugsanvisning

POWERTEX



Aluminum Pulling Hoist PAPH-S1

User Manual



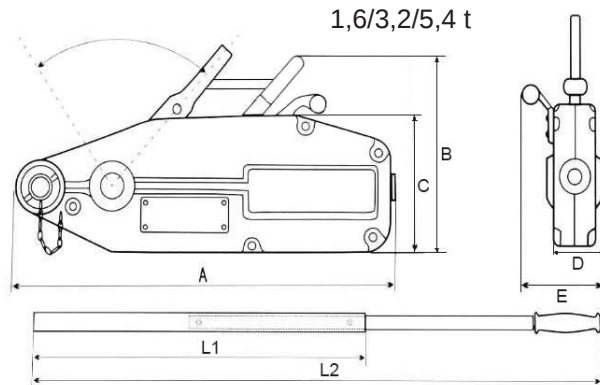
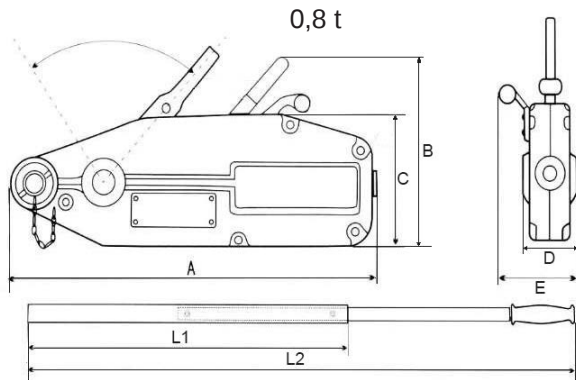
POWERTEX Aluminum Wire Rope Pulling Hoist PAPH-S1 0,8 - 5,4 ton

Instruction for use (GB) (Original instructions)

Read through these user instructions before using the wire rope hoist. Improper operation may lead to hazardous situations.

General safety provisions

- Only to be used by trained operator.
- Do not use in explosive or corrosive environment.
- Temperature range: -10°C up to +50°C. Using the wire rope hoist in icy conditions, make sure that neither the wire rope or machinery is frozen.
- Check the function of the wire rope hoist before use.
- Do not exceed the maximum load.
- Handle the wire rope hoist with care. Do not throw the hoist about or let it fall to the ground.
- Do not use the wire rope hoist for welding work where it is exposed to welding spatter or current.
- Don't use with food, cosmetics or pharmaceutical products, and must not be subjected to severe corrosive influences (e.g. acids).
- Don't use any surface finishing that could have an impact on the material. Don't expose the hoist to heat, welding or drilling.
- Keep the wire hoist clean, dry and protected from corrosion.
- The wire rope hoist must not be used for lifting persons.



Data

Model	WLL (ton)	Hand force max. (N)	Movement* (mm)	Wire rope dia. (mm)	Lever length (mm)	Weight (kg)
PAPH-S1/800	0,8	341	>52	8,3	800	6,5
PAPH-S1/1600	1,6	400	>55	11,0	1200	12,5
PAPH-S1/3200	3,2	438	>28	16,0	1200	23,5
PAPH-S1/5400	5,4	850	>22	20,0	1120	56,0

* Wire rope movement with one back and forth movement

Dimensions

WLL ton	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L1 (mm)	L2 (mm)
0,8	426	235	168	60	64	-	800
1,6	545	284	190	72	97	692	1200
3,2	660	325	230	91	116	692	1200
5,4	930	390	300	110	150	692	1200

Function

Operating principle

The wire rope hoist works by pulling the lever back and forth when the wire rope runs through the hoist. The wire rope hoist can be used for lifting, pulling and tightening.

The wire rope hoist has two jaws that open in turns so that the wire will always stay tight and will not be able to loosen.

The safety shear pin on the wire rope hoist's lifting lever breaks at just above WLL to prevent overloading. 5 pcs of spare shear pins included in the handle.

Procedure before use

Wire rope hoists inspection before use

A competent person should check the wire rope hoist visually and its workability before first use. By testing the wire rope hoist you make sure the wire rope hoist hasn't been damaged or broken during its transportation.

Inspection before lift/pull

Before every use the hoist, wire rope, anchor sling and other lifting tools conditions have to be checked in case of any kind of damage. Also check that the hoist's name plate is legible. Any equipment or parts with defects must be taken out of service until it has been repaired or replaced. In addition, the jaw clamps function ability as well as the anchors durability is to be tested by lifting/pulling the load a short distance and then lowering it.

Wire rope inspection

Check the wire rope for deformation, bending, twisting, cutting of lines, corrosion, overheating etc. before use.

Eye sling hook inspection

Check the hook for deformation, notches, wear and corrosion or in case of any damage.

Wire rope specification

It is allowed to use only this type of wire rope:

- Steel core
- Grade 1770 N/mm²
- Construction 6x19-IWRC
- Dry

Use

Open the wire rope jaw clamps so that the wire rope won't bend or twist.

Push the release handle on top of the wire rope hoist in a forward position until you hear the jaws open.

Push the wire rope through the wire rope hoist so you can see it from the other side. Pull as much rope as you need and then lock the wire rope by pushing the release handle to a backwards position.

Place the lever handle extension either in the front or back peg depending if you want to lift or lower the load. Now the wire rope hoist is ready for use.

Take the anchor pin out and attach hook, shackle, sling or some other tool needed to connect the hoist to the anchor point.

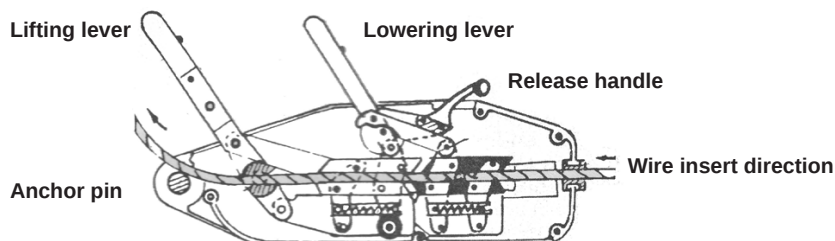


Attention! Check the strength of the attachment point before starting to lift or pull.

Operating the lifting lever back and forth will make the wire move through the wire rope hoist and tighten. Moving one of the levers you can make the wire rope move in or out.

When finishing the use of the wire rope hoist pull the wire out by pushing the release lever on top of the wire rope hoist into a frontward position so that the wire rope get released. Clean the wire rope before releasing it through the wire rope hoist so that no dirt will get into the wire rope hoist.

After removal of the wire rope push the release handle back to the backwards position so that the spring relaxes.



Wire rope hoist anchoring

When attaching the wire rope hoist make sure that the person who is using the wire rope hoist won't be put into dangerous situations from the load or attaching the wire rope hoist.

Mount the wire rope hoist in between the anchoring point and the load so that the wire rope hoist is set in the same direction as the wire rope and so the wire rope moves straight through the direction of the pulling direction.

In an indirect pull use only strong enough wire rope blocks.

Using lifting slings or lifting tools, make sure that they have at least the same loading capacity as the wire rope hoist that is being used.

Make sure that the anchor pin is fully locked in place with a spring pin.



Warnings

Before use make sure all the wire rope hoist's screws are tightened. Also check the product's common condition and that the handles move freely. Check that the wire rope is clean. If the wire rope is damaged, the wire rope hoist won't work properly and must be replaced immediately.

Only use one lever at the same time. Never touch the release handle when the wire rope hoist is loaded.

Don't pull on the lifting lever too hard, since the overload safety pin will break. Don't use homemade overloading safety pins on the wire rope hoist!

Don't extend the lever length. Abort the lifting process straight away if the load needs more power for lifting or lowering it.

Never be on top of the load and make sure no one is working close or under the load that is being lifted.

Don't let the load spin during the lift. Avoid to impact, shock or swinging the load.

Only direct loading. The wire rope hoist must not be exposed to a bending load, were the wire is loaded in an improper way. Use the wire rope hoist by keeping the wire rope hoist hook and anchor peg in line with each other. Don't load on the tip of the hook. Loading with the hook is only allowed in the longitudinal direction and the load has to be directed to the middle of the hook's radius.

The working load limit which is marked on the product must not be exceeded.

Don't use other wire ropes that aren't from the distributor and accepted by the manufacturer. When the diameter of the wire has reduced more than 10% in dimension it has to be changed immediately. Don't insert the wire rope from the front of the wire rope hoist, since the hook will be on the wrong side.

Keep the wire rope hoist clean, don't let any dirt into it, mud or any other harmful substance that could break or wear down the wire rope hoist.

Lubricate the wire rope hoist frequently.

Never lift or pull people with the wire rope hoist.

Never leave the load without supervision.

Don't ever use a hammer etc. for releasing the release lever.

Maintenance, inspections and repairs

Maintenance: The wire rope hoist and wire must be washed, dried after use in wet conditions and protected from corrosion

Inspections: The product must be clean when checked. The product must be checked before every use in case of visible damage. Once a year a competent person must check the product thoroughly. This time period must be shortened if the working conditions require it. When checking the product it has to be checked visually and also tested. Parts and components should be checked for damage, wear, corrosion etc. and also analyze the wire rope hoists workability as a safe lifting tool. The wire rope hoists clamps should be checked by testing them with the nominal load capacity. If you notice any deviation on the wire rope hoist it should be disassembled and inspected thoroughly by a competent person.

Repairs: All possible repairs concerning the wire rope hoist and wire rope are to be made by the seller's authorized technicians.

EC Declaration of conformity

SCM Citra OY

Asessorinkatu 3-7

20780 Kaarina, Finland

www.powertex-products.com

hereby declares that the POWERTEX product as described above is in compliance with EC Machinery Directive 2006/42/EC & EN 13157.

UK Declaration of conformity

SCM Citra OY

Asessorinkatu 3-7

20780 Kaarina, Finland

www.powertex-products.com

hereby declares that the POWERTEX product as described above is in compliance with the Supply of Machinery (Safety) Regulations 2008 & BS EN 13157.

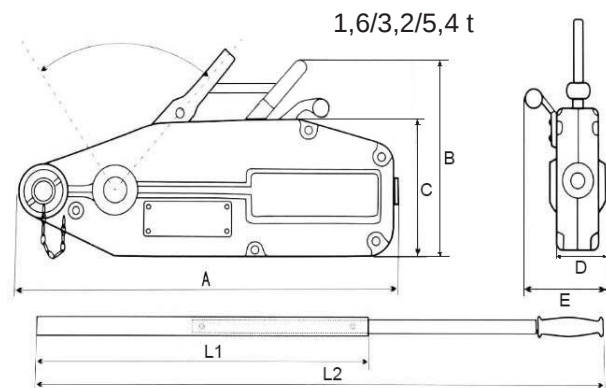
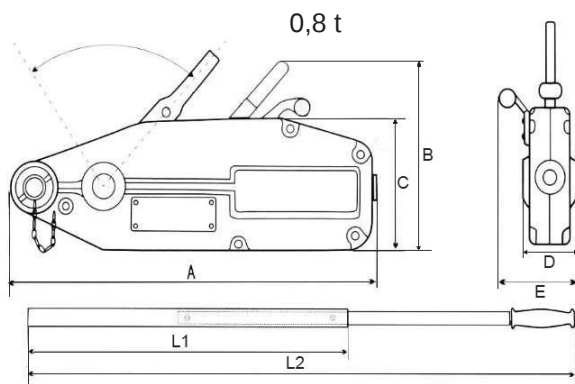
POWERTEX Aluminum wiretalje PAPH-S1 0,8 - 5,4 ton

Brugsanvisning (DK)

Læs denne brugsanvisning, før wiretaljen tages i bruge rope hoist. Forkert brug kan medføre fare.

Generelle sikkerhedsanvisninger

- Må kun betjenes af uddannet operatør.
- Må ikke anvendes i eksplosive eller ætsende miljøer.
- Arbejdstemperatur: -10°C op til +50°C. Ved brug af wiretaljen under minusgrader, skal du sikre dig at hverken stålwire eller taljen er frossen.
- Kontroller wiretaljens funktioner før brug
- Belast ikke med mere end maks.-lasten.
- Håndtér wiretaljen med forsigtighed. Taljen må ikke kastes med eller tabes på jorden.
- Anvend ikke wiretaljen ved svejsearbejder, hvor den kan blive udsat for svejsestrøm eller svejsestrøm.
- Anvend ikke wiretaljen sammen med fødevarer, kosmetiske eller farmaceutiske produkter. Udsæt ikke wiretaljen for alvorligt ætsende påvirkning (f.eks. syrer).
- Brug ikke overfladebehandling der kan have indflydelse på materialet. Udsæt ikke wiretaljen for varme, svejsning eller boring.
- Hold wiretaljen ren, tør og beskyttet mod korrosion.
- Wiretaljen må ikke bruges til personløft.



Data

Model	WLL (ton)	Håndkraft maks. (N)	Vandring* (mm)	Stålwire dia. (mm)	Betjeningshåndtag længde (mm)	Vægt (kg)
PAPH-S1/800	0,8	341	>52	8,3	800	6,5
PAPH-S1/1600	1,6	400	>55	11,0	1200	12,5
PAPH-S1/3200	3,2	438	>28	16,0	1200	23,5
PAPH-S1/5400	5,4	850	>22	20,0	1120	56,0

* Stålwire vandring med en frem og tilbage bevægelse

Dimensioner

WLL ton	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L1 (mm)	L2 (mm)
0,8	426	235	168	60	64	-	800
1,6	545	284	190	72	97	692	1200
3,2	660	325	230	91	116	692	1200
5,4	930	390	300	110	150	692	1200

Funktion

Anvendelsesprincipper

Wiretaljen fungerer ved at trække håndtaget frem og tilbage således at stålwiren derved løber gennem wiretaljen. Wiretaljen kan anvendes til løft, træk og stramning.

Wiretaljen har dobbelt friktionsgreb som åbner efter tur, således at stålwiren altid vil forblive stram og ikke kan løsne sig utilsigtet.

Brudstiften på wiretaljens betjeningshåndtag bryder ved overbelastning lige over WLL. Der er 5 stk. brudstifter inkluderet i betjeningshåndtaget.

Procedure før anvendelse

Wiretalje kontrol før anvendelse

En kompetent person skal kontrollere wiretaljen visuelt og dens funktionsevne inden første ibrugtagning. Ved kontrollen af wiretaljen skal du sikre dig, at wiretaljen ikke er blevet beskadiget eller ødelagt under transport.

Inspektion før løft/træk

Før hver anvendelse af wiretaljen skal taljens, stålwirens, forankringsslingets og andre løfteværktøjs tilstand kontrolleres for enhver type fejl eller skade. Kontroller også at wiretaljens navneplade er læseligt. Alt udstyr eller dele heraf med defekter skal tages ud af drift, indtil det er blevet repareret eller udskiftet. Derudover skal kæbernes funktionsevne såvel som forankringsslingets holdbarhed testes ved løft/træk af emne over en kort distance, samt efterfølgende sænkning af emnet.

Stålwire inspektion

Kontroller stålwiren for deformation, bøjning, vridning, snitskader, korrosion, overophedning osv. før anvendelse.

Lastkrog inspektion

Kontroller lastkrogen for deformation, hakker, slid og korrosion og andre mulige skader.

Stålwire specifikation

Det er kun tilladt at anvende stålwire med følgende egenskaber:

- Stålhjerte
- Grade 1770 N/mm²
- Konstruktion 6x19-IWRC
- Tør (uden smøremiddel)

Anvendelse

Åbn wiretaljens kæber så stålwiren ikke bøjes eller vrides.

Skub frigørelsesshåndtaget ovenpå wiretaljen fremad indtil du kan høre kæberne åbnes.

Skub stålwiren gennem wiretaljen i stålwirens indførsretsning, indtil du kan se den i den anden ende af wiretaljen. Skub så meget stålwire ud som du har brug for og lås derefter stålwiren fast ved at trække frigørelsesshåndtaget tilbage i dets oprindelige stilling.

Placer håndtagsforlængerens enten i betjeningshåndtaget eller sænkehåndtaget afhængigt af om du vil løfte eller sænke emnet. Nu er wiretaljen klar til brug. Tag ankerbolten ud og fastgør lastkrogen, sjæklen, slinget eller andet værktøj der kræves for at forbinde wiretaljen til anker punktet.

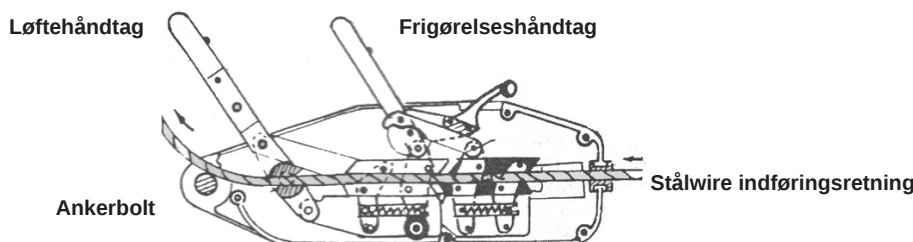


OBS! Kontroller forankringspunktets kapacitet før løftet/trækket påbegyndes.

Ved bevægelse af betjeningshåndtaget frem og tilbage føres stålwiren gennem wiretaljen og strammes. Ved bevægelse af et af de to håndtag (betjeningshåndtag eller sænkehåndtag), kan du få stålwiren til at bevæge sig ind eller ud af wiretaljen.

Når du er færdig med at bruge wiretaljen, trækkes stålwiren ud ved at skubbe frigørelsesshåndtaget fremad, hvorved stålwiren løsnes.

Rengør stålwiren inden du trækker den gennem wiretaljen, så der ikke kommer snavs ind i taljen. Efter fjernelse af stålwiren skubbes frigørelsesshåndtaget tilbage til bagudstilling, så fjederen slappes.



Forankring af wiretaljen

Når du forankrer wiretaljen skal du sikre dig, at den der skal betjene wiretaljen ikke kommer i farlige situationer fra emnet der skal håndteres, eller monteringen af wiretaljen.

Monter wiretaljen mellem forankringspunktet og emnet der skal håndteres således at wiretaljen er placeret i samme retning som stålwiren bevæger sig, og således at stålwiren bevæger sig lige gennem wiretaljen i trækretningen.

Anvend altid kasteblok med tilstrækkelig høj kapacitet ved direkte træk.

Ved brug af slings eller løfteværktøjer skal man altid sikre at de har samme kapacitet som wiretaljen.

Sørg for, at ankerbolten er korrekt placeret og helt låst med en fjederstift.



Advarsel

Før brug skal du sikre dig, at alle wiretaljens skruer er strammet. Kontroller også produktets generelle tilstand og at håndtagene kan bevæges frit. Kontroller at stålwiren er ren. Hvis stålwiren er beskadiget vil wiretaljen ikke fungere korrekt og stålwiren skal skiftes ud straks.

Anvend kun en wiretalje ad gangen. Rør aldrig ved frigørelsesshåndtaget når wiretaljen er belastet.

Træk ikke for hårdt i betjeningshåndtaget, eftersom brudstiften vil bryde. Anvend ikke hjemmelavede brudstifter på wiretaljen!

Forlæng ikke betjeningshåndtaget. Stop løfteprocessen straks hvis der kræves mere kraft for løft/sænkning.

Stå aldrig oven på emnet, og sørg for, at ingen arbejder tæt ved eller under det emne der håndteres.

Lad ikke emnet dreje under håndteringen. Undgå at påvirke emnet med chok eller svingninger.

Kun direkte belastning. Wiretallen må ikke udsættes for en bøjningsbelastning, hvor stålwiren føres på en forkert måde. Anvend wiretallen ved at holde lastkrogen og ankerpind i linje af hinanden. Belast ikke krogspidsen. Belastning af krogen er kun tilladt i længderetningen, og emnet skal rettes mod midten af krogens radius.

Arbejdsbelastningsgrænsen, der er markeret på produktet, må ikke overskrides.

Brug ikke stålwire der ikke kommer fra distributøren og er accepteret af producenten. Når stålwirens diameter er reduceret mere end 10% i dimension, skal den straks skiftes ud. Indsæt ikke stålwiren i fronten af wiretallen, da krogen derved vil komme til at være på den forkerte side.

Hold wiretallen ren for snavs, mudder eller andre skadelige emner, der kan nedbryde eller ødelægge stålwiren.

Smør wiretallen ofte.

Løft eller træk aldrig personer med wiretallen.

Lad aldrig lasten være uden opsyn.

Brug aldrig en hammer osv. til løsning af frigørelseshåndtaget.

Vedligeholdelse, inspektioner og reparationer

Vedligeholdelse: Wiretallen og stålwiren skal vaskes og tørres efter brug under våde forhold og beskyttes mod korrosion.

Inspektioner: Produktet skal være rent, når det kontrolleres. Produktet skal kontrolleres inden enhver brug i tilfælde af synlig skade. Én gang om årligt skal en kompetent person kontrollere produktet grundigt. Denne periode skal forkortes, hvis arbejdsforholdene kræver det. Ved kontrol af produktet skal det kontrolleres visuelt og også testes. Dele og komponenter skal kontrolleres for skader, slid, korrosion osv. og analyser også stålwirens arbejdssevne som et sikkert løfteværktøj. Wiretallens kæber skal kontrolleres ved at teste dem med den nominelle belastningskapacitet. Hvis du bemærker afvigelser på wiretallen, skal det adskilles og inspiceres grundigt af en kompetent person.

Reparationer: Alle reparationer vedrørende wiretallen og stålwire skal udføres af sælgers autoriserede teknikere.

Overensstemmelseserklæring

SCM Citra OY

Asessorinkatu 3-7

FI-20780 Kaarina

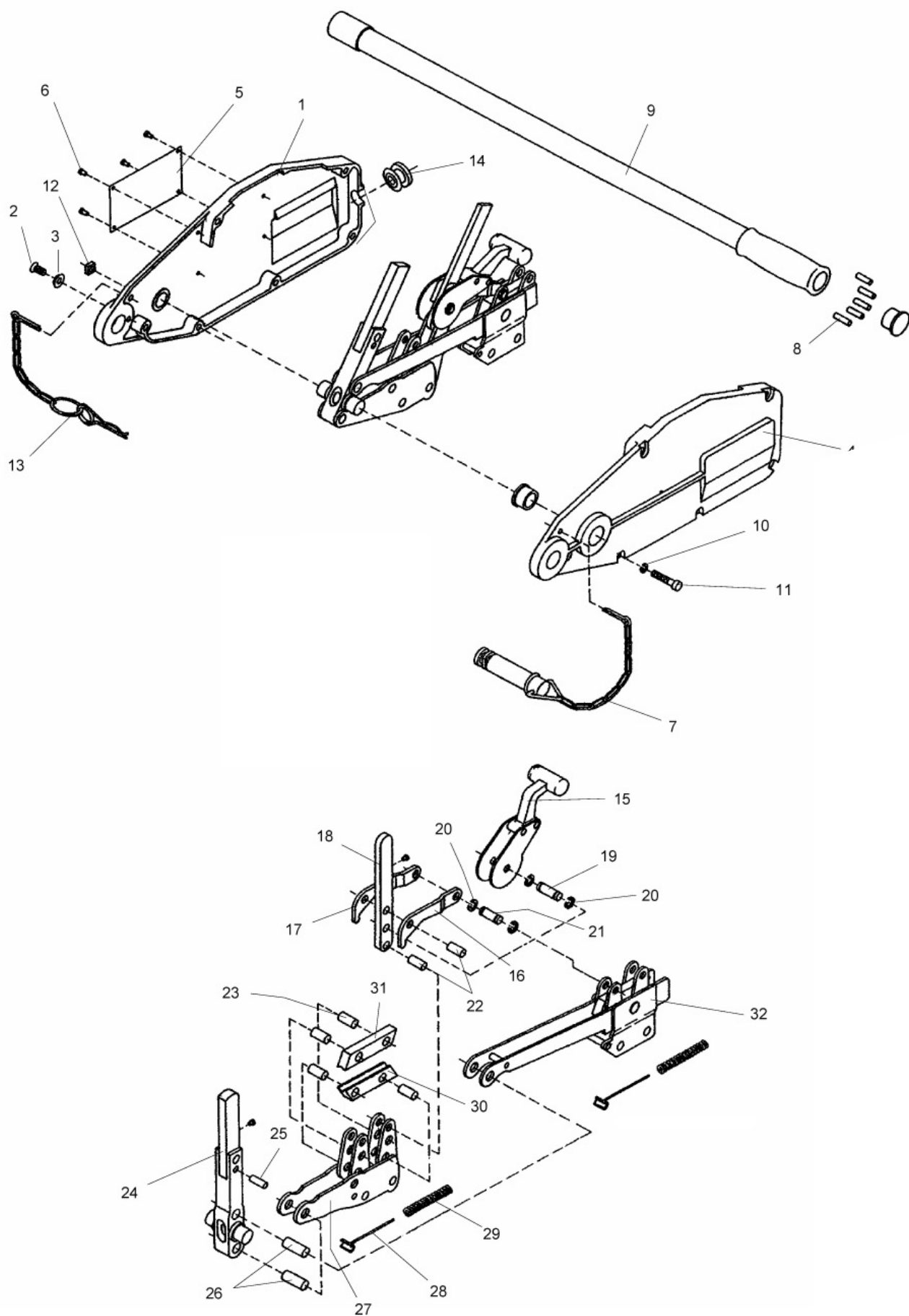
Finland

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erklærer hermed, at POWERTEX-produktet som beskrevet ovenfor er i overensstemmelse med EC Maskindirektivet 2006/42/EF og EN 13157.

POWERTEX Aluminium Pulling Hoist PAPH-S1 – Parts 0,8 t

When ordering parts, specify model, WLL, pos number, description and the quantity needed.

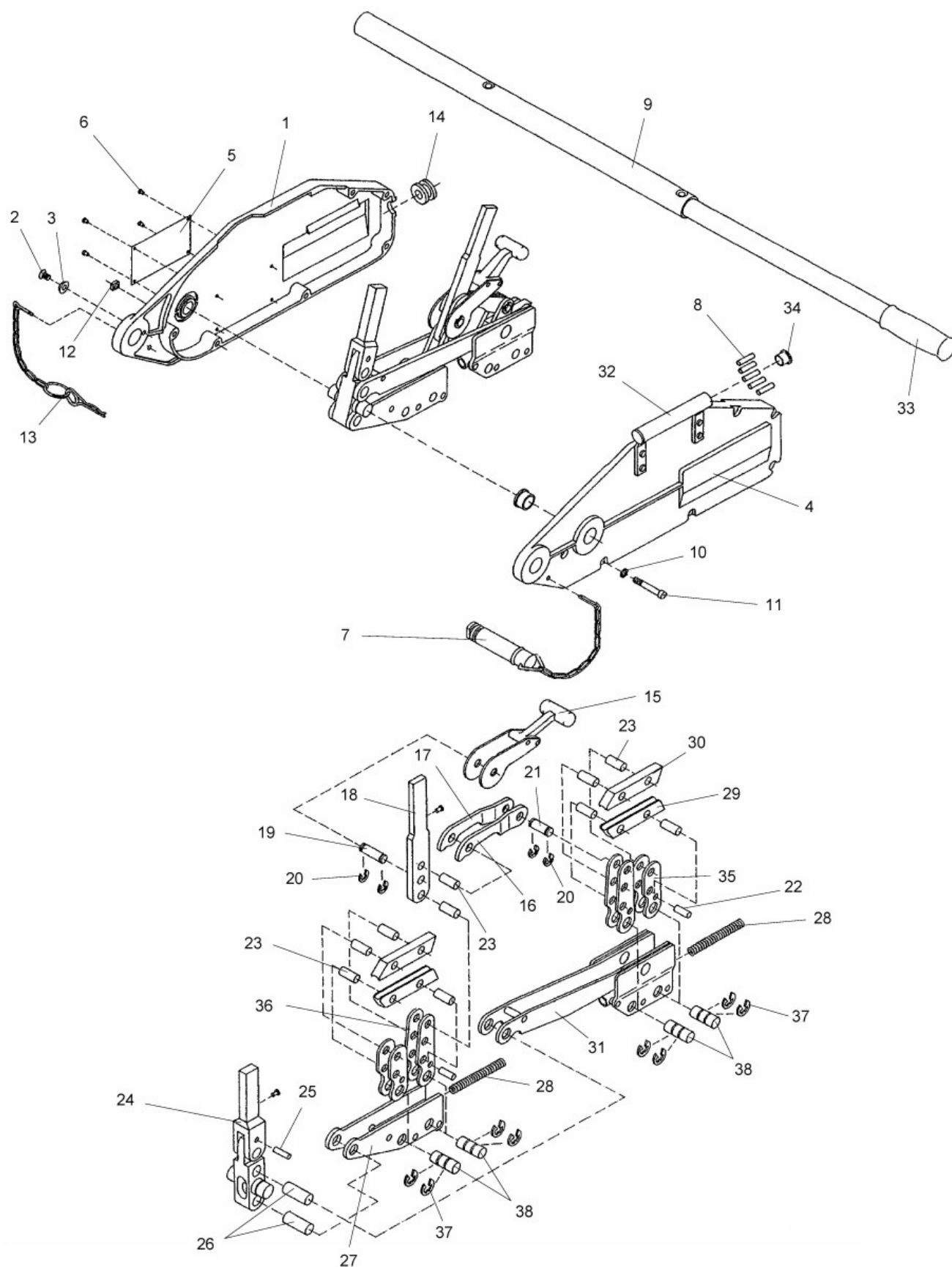


Parts list 0,8 t

Pos	Description	Qty.
1-3	Case right, assy.	
2	Cylindric-head tapping screw	
3	Washer	
4	Case left, assy	
5	Name plate	
6	Rivet	
7	Fastening bolt, assy.	
8	Shearing bolt	
9	Action lever, assy.	
10	Retaining ring	
11	Cylindric-head screw	
12	Nut with square	
13	Spring cutter, assy.	
14	Guide sleeve of wire rope	
15	Release handle for jaw clamps, assy.	
16	Push lever left	
17	Push lever right	
18	Lowering lever backwards	
19	Bolt	
20	Lock washer	
21	Bolt	
22	Bolt	
23	Thrust bolt	
24	Lifting lever forward, assy.	
25	Shearing bolt	
26	Axle	
27	Front slide, assy.	
28	Spring guide	
29	Spring	
30	Jaw clamp under	
31	Clamp upper	
32	Back slide, assy.	

POWERTEX Aluminium Pulling Hoist PAPH-S1 – Parts 1,6 t

When ordering parts, specify model, WLL, pos number, description and the quantity needed.

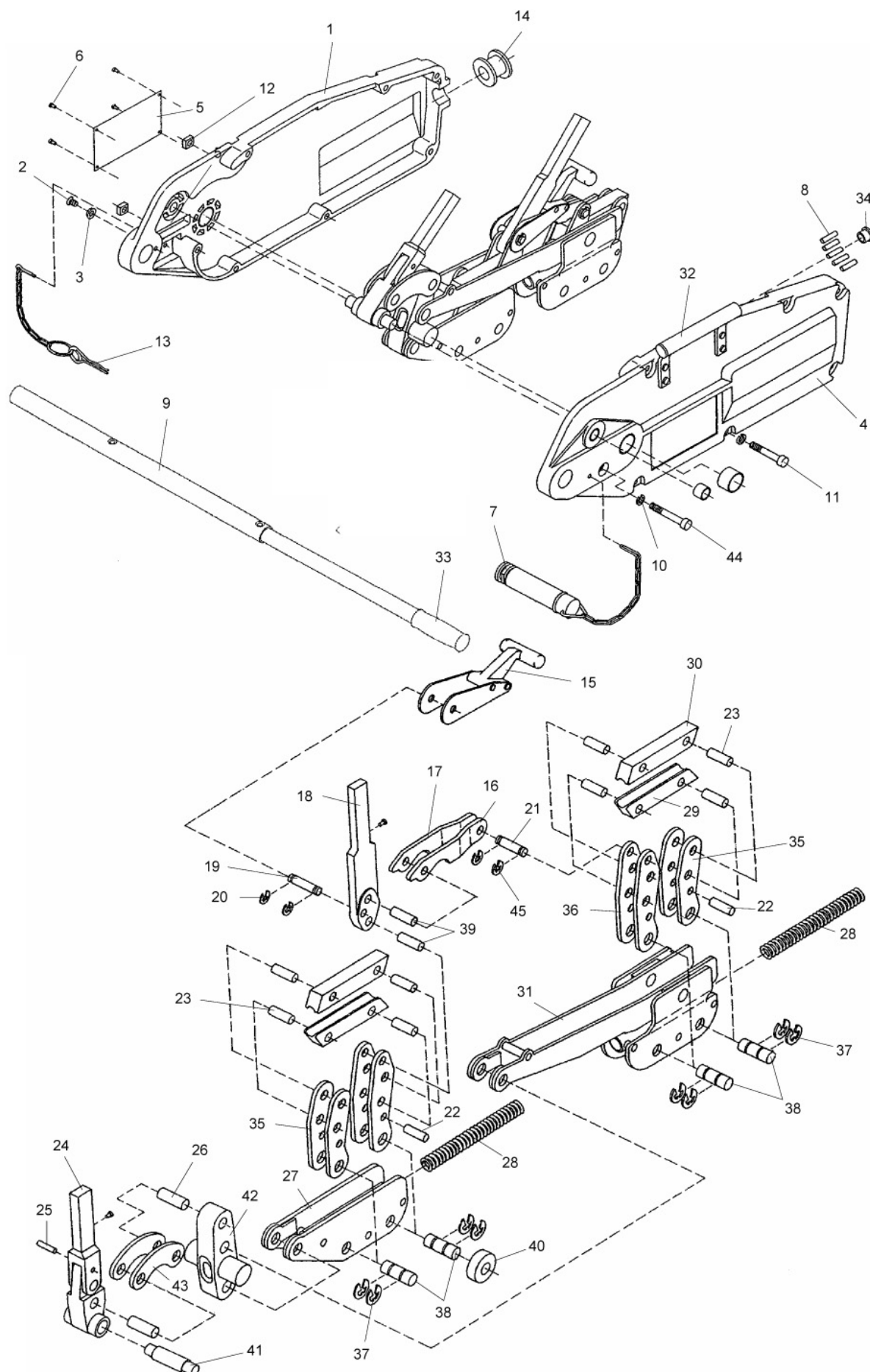


Parts list 1,6 t

Pos	Description	Qty.
1-3	Case right, assy.	
2	Cylindric-head tapping screw	
3	Washer	
4	Case left, assy	
5	Name plate	
6	Rivet	
7	Fastening bolt, assy.	
8	Shearing bolt	
9	Telescopic action lever, assy.	
10	Retaining ring	
11	Cylindric-head screw	
12	Nut with square	
13	Spring cutter, assy.	
14	Guide sleeve of wire rope	
15	Release handle for jaw clamps, assy.	
16	Push lever left	
17	Push lever right	
18	Lowering lever backwards	
19	Bolt	
20	Lock washer	
21	Bolt	
22	Spring bolt	
23	Thrust bolt	
24	Lifting lever forward, assy.	
25	Shearing bolt	
26	Axle	
27	Front slide	
28	Spring	
29	Jaw clamp under	
30	Jaw clamp upper	
31	Back slide, assy.	
32	Handgrip, assy	
33	Rubber handgrip	
34	Cap	
35	Lever for clamp, short	
36	Lever for clamp, long	
37	Lock washer	

POWERTEX Aluminium Pulling Hoist PAPH-S1 – Parts 3,2 t

When ordering parts, specify model, WLL, pos number, description and the quantity needed.

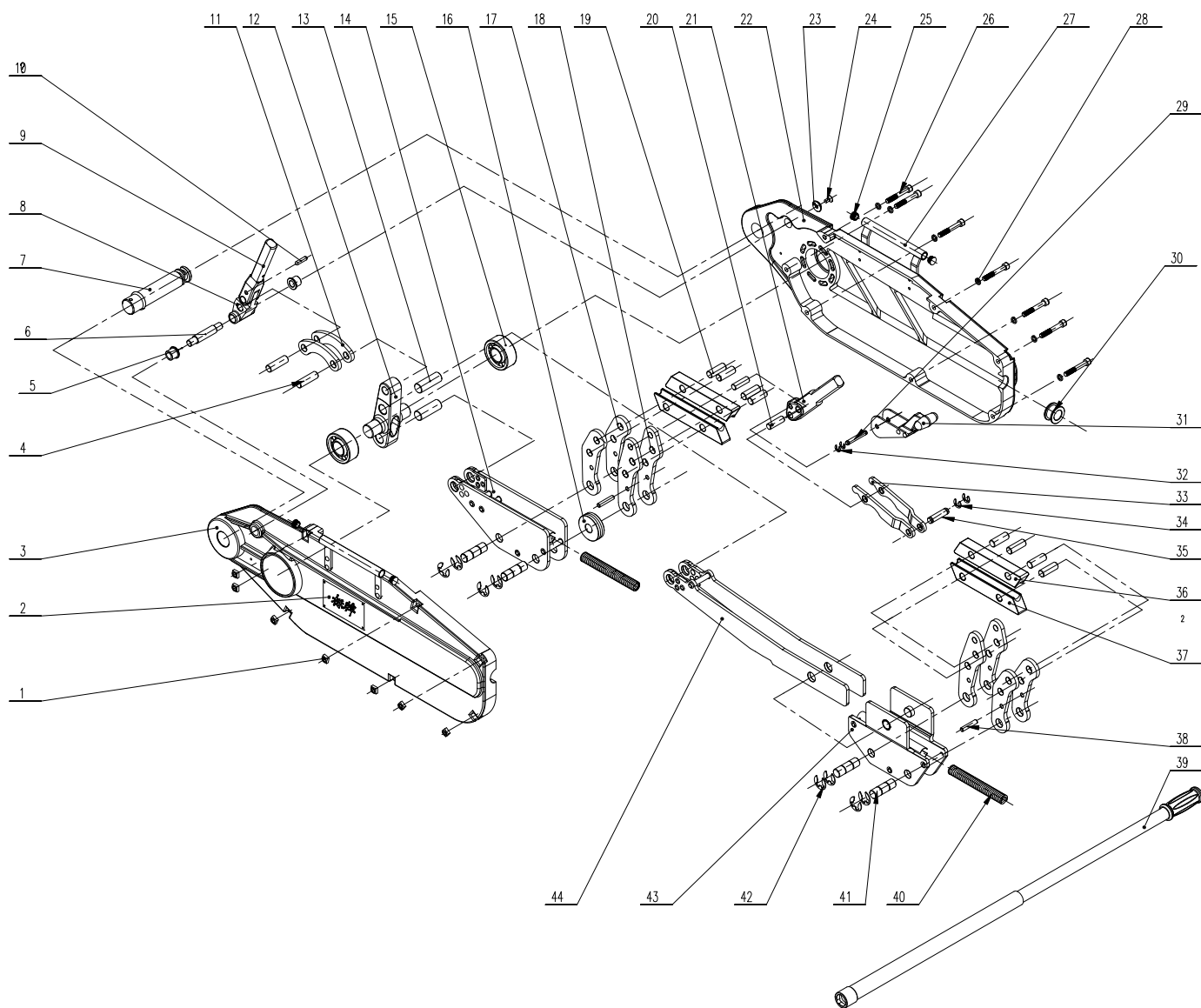


Parts list 3,2 t

Pos	Description	Qty.
1-3	Case right, assy.	
2	Cylindric-head tapping screw	
3	Washer	
4	Case left, assy	
5	Name plate	
6	Rivet	
7	Fastening bolt, assy.	
8	Shearing bolt	
9	Telescopic action lever, assy.	
10	Retaining ring	
11	Cylindric-head screw	
12	Nut with square	
13	Spring cutter, assy.	
14	Guide sleeve of wire rope	
15	Release handle for jaw clamps, assy.	
16	Push lever left	
17	Push lever right	
18	Lowering lever backwards	
19	Bolt	
20	Lock washer	
21	Bolt	
22	Spring bolt	
23	Thrust bolt	
24	Lifting lever forward, assy.	
25	Shearing bolt	
26	Axle	
27	Front slide	
28	Spring	
29	Jaw clamp under	
30	Jaw clamp upper	
31	Back slide, assy.	
32	Handgrip, assy	
33	Rubber handgrip	
34	Cap	
35	Lever for clamp, short	
36	Lever for clamp, long	
37	Lock washer	
38	Bearing bolt	
39	Bolt	
40	Roll	
41	Bolt	
42	Centering shaft	
43	Intermediate actuating lever	
44	Cylindric-head screw	
45	Lock washer	

POWERTEX Aluminium Pulling Hoist PAPH-S1 – Parts 5,4 t

When ordering parts, specify model, WLL, pos number, description and the quantity needed.



Parts list 5,4 t

Pos	Description	Qty.
1	Square nut M10	7
2	Name plate	2
3	Case left	1
4	Axle	2
5	Sleeve	2
6	Shaft	1
7	Fastening bolt assembly	1
8	Action lever forwardassy 1	1
9	Action lever forwardassy 2	1
10	Shearing bolt	5
11	Intermediate actuating lever	2
12	Centering shaft	1
13	Rocker shaft	2
14	Front slide	2
15	Bearing NU2307	2
16	Roller	1
17	Lever for clamp short	4
18	Lever for clamp long	4
19	Thrust bolt	8
20	Bolt	2
21	Action lever backwards	1
22	Case right	1
23	Washer	1
24	Flat head screw M8	1
25	Cap	4
26	Cylindrec-head screw M10	7
27	Handgrip assy	2
28	Retaining ring M10	7
29	Shaft	1
30	Wire rope guide sleeve	1
31	Release handle for clamps assy	1
32	Lock washer Ø8	2
33	Push lever	2
34	Lock washer Ø12	2
35	Bolt	1
36	Bottom clamp	2
37	Top clamp	2
38	Spring bolt	2
39	Telescopic action lever assy	1
40	Spring	2
41	Bearing bolt	4
42	Lock washer Ø19	4
43	Back slide	2
44	Side assy.	2

CertMax+

The CertMax+ system is a unique leading edge certification management system which is ideal for managing a single asset or large equipment portfolio across multiple sites. Designed by the Lifting Solutions Group, to deliver optimum asset integrity, quality assurance and traceability, the system also improves safety and risk management levels.

CertMax

Marking

The POWERTEX Aluminium Wire Rope Hoist is equipped with a RFID (Radio-Frequency IDentification) tag, which is a small electronic device, that consist of a small chip and an antenna. It provides a unique identifier for the block.

The POWERTEX Aluminium Wire Rope Hoist is **CE** and **UKCA** marked

Standard: EN 13157



User Manuals

You can always find the valid and updated User Manuals on the web. The manual is updated continuously and valid only in the latest version.

NB! The English version is the Original instruction.

The manual is available as a download under the following link:
www.powertex-products.com/manuals



Product compliance and conformity

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