

Vacuum Power Handy VPH 150

V5

Order-No.: 5271.0001

Serial-No.:



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2 Declaration of Conformity

Konformitätserklärung; Declaration of conformity; Déclaration de Conformité; Certificato di conformita´norme CE; Declaración de conformidad

DESCRIPTION: Vacuum Power Handy

VPH 150

Hersteller: PROBST GREIFTECHNIK VERLEGESYSTEME

Manufacturer: Gottlieb-Daimlerstraße 6 Fabricant: 71729 Erdmannhausen

Costruttore: Probst Greiftechnik Verlegesysteme GmbH

Fabricante: info@probst.eu www.probst.eu <a href="mailto:www.pro

Complies with the following provisions applying to it

EC-machinery directive 2006/42/EG

DIN EN ISO 12100

Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)

DIN EN ISO 13857

Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2008)

DIN EN 349 (ISO 13854)

Minimum distance to avoid squeezing any parts of the body

DIN 45635-13

Measurement of airborne noise emitted by machines (displacement-, turbo- and jet-compressors).

DIN EN 1012-1 / DIN EN 1012-2

Compressors and vacuum pumps; Safety requirements part 1 and 2.





DIN EN 60204-1 (IEC 60204-1)

Safety of machinery, electrical equipment of industrial machines. Part 1: General requirements

2006/95/EG (Low voltage standard)

2004/108/EG (Electromagnetic compatibility)

DIN EN 55014-1 (IEC/CISPR 14-1)

Electromagnetic compatibility – Requirements for household appliances, electric tools, and similar apparatus. Part 1: Emission.

DIN EN 55014-2 (IEC/CISPR 14-2)

Electromagnetic compatibility – Requirements for household appliances, electric tools, and similar apparatus. Part 2: Immunity.

Authorized person for EC-dokumentation:

Name: J. Holderied

Adress: Probst Greiftechnik • Verlegesysteme GmbH; Gottlieb-Daimler-Str. 6; D-71729 Erdmannhausen



3 General

3.1 Authorized use

The device Vacuum Power Handy (VPH 150) is only for lifting, transporting and lifting natural stone and concrete slabs, large slabs, drain..., steps, etc. *in close proximity to the ground*. The goods to be lifted must have no porous surfaces.

The device (VPH 150) can only be used in a vertical hanging position and is for two-man-operation designed.

The device (VPH 150) is additional equipped with a suspension lug for crane hook.

Some of the suction plates, which can be attached to the device (VPH 150), reduce its carrying capacity. The maximum load permitted is stated on each suction plate.

Never exceed the stated maximum load!

The stated maximum load can only be achieved with a vacuum of at least 500 mbar!

Never exceed the permitted maximum load of 150 kg.



- The device is only designed for the use specified in this documentation.
- Every other use is not authorized and is forbidden!
- All relevant safety regulations, especially regulations of the declaration of conformity, and additional local health and safety regulations have to be observed.



The use of this device is only permitted in proximity to the ground.



Prior to every operation the user must ensure that:

the equipment is suited to the intended operation,

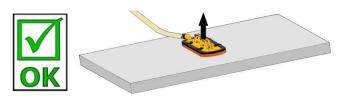
the functioning and the working condition of the equipment is examined,

the loads are suitable to be handled.

Any doubts about instructions should be raised with the manufacturer prior to use.



- The load (stone slabs) which is to be sucked and transported, must have sufficient inherent stability, otherwise there is risk of breakage when lifting!
- Stone slabs **must not** be bend when lifting especially take care with thin and large-sized stone slabs!
- Generally, the load (stones slab) is only to be sucked in the middle, otherwise the load hangs diagonally under the device and the load could break - especially when lifting large stone slabs with a small suction plate.
- Standard suction plates are not suitable for the transport of glass plates!





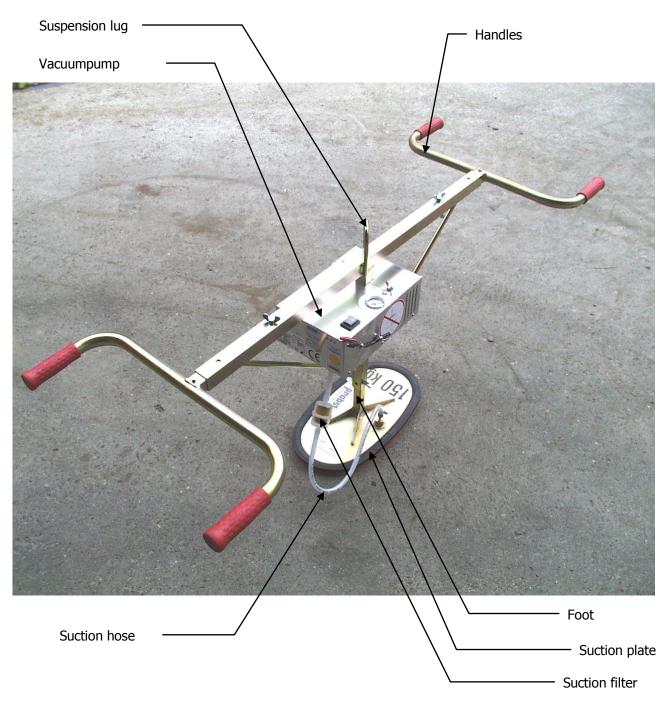




Only suction plates of the manufacturer **PROBST** shall be used!



3.2 Survey and construction



3.3 Technical data

Туре	Carying capacity(kg) valve at - 500 mbar under-pressure	Dead weight (kg)
VPH 150	150	16,5



4 Safety

4.1 Safety symbols



Danger to life!

Identifies imminent hazard. If you do not avoid the hazard, death or severe injury will result.



Hazardous situation!

Identifies a potentially hazardous situation. If you do not avoid the situation, injury or damage to property can result.



Prohibition!

Identifies imminent a prohibition. If you do not avoid the prohibition, death and severe injury, or damage to property will result.

4.2 Definition skilled worker / specialist

Only skilled workers or specialists is it allowed to carry out the installation,- maintenance, - and repair work on these device!

Skilled workers or specialists must have for the following points (if it applies for these device), the necessary professional knowledge.

- for mechanic
- for hydraulics
- for pneumatics
- for electrics



4.3 Safety Marking

WARNING SIGN					
Symbol	Meaning	Order-No.:			
Facility Control of the Control of t	It is not allowed to be under hanging loads. Danger to life!	2904.0101			
	Do not lift any components off-centre.	2904.0383 (102x52 mm)			
WARNING SIG	N				
Symbol	Meaning	Order-No.:	Size:		
	Danger of pinching the hands.	2904.0221 2904.0220 2904.0107	30 mm 50 mm 80 mm		
REGULATORY SIGN					
APRICED.	Read operating instructions before operating.	2904.0366 2904.0365	30x57 mm 50x95 mm		



4.4 Instructions for Installation, Maintenance and Operating Personnel



The device must be installed and maintained by qualified personnel, mechanics and electricians.

Each person in your company involved in the installation, start-up, operation, maintenance, and repair of the device must have read and understood the operating instructions and especially the chapter "Safety" therein.



Your company must ensure by internal measures

- that the operators of the lifting device are properly trained,
- that they have read and understood the operating instructions,
- that the operating instructions will be available to them at any time.

The responsibilities for the tasks carried out with the device must be clearly organized and observed. There must be no ambiguity regarding responsibilities.

4.4.1 General

- Before using the device check the functions and the working condition.
- Maintenance and lubrication are only permitted when device is shut down!
- Do not use the device, until all faults which can cause safety hazards are removed.
- If there are splits at carrying parts of the device, immediately stop using it.
- The operating instructions must be available at the workplace every time.
- Do not remove the data-plates of the machine.
- Unrecognisable data-plates must be replaced.

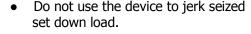
4.4.2 General



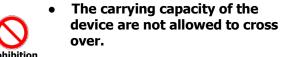
- The use of the device is only permitted in proximity to the ground. Do not swing it over peoples heads.
- Prohibition
- While using the device is the stay of persons in the working area forbidden. Except it is indispensable. Caused of the way of using the device, e.g. if the device must be leaded by hand.



- While using the device be sure that there are no persons in the working area. Danger to Life!
- The manual guiding of is only allowed for devices with handles.



 Do not lift any components off-centre, because they could fall down.





Avoid quick or jerky movements with the device. E.g. caused through driving fast over uneven grounds/site is forbidden. Because the gripping good could fall down.





4.5 Special Hazards



- The operating range have to be covered for unauthorized persons, especially children
- The workplace have to be sufficiently illuminated.
- Take care handling wet, dirty and not solidified components.
- Take care in case of thunderstorm!



• The working with the vacuum lifting device in case of atmospheric editions under 37,5° F is forbidden!

Because the goods could be fall down caused by dampness or freezing.

• Since the load is held on the suction plates of the unit by a vacuum, it will fall off as soon as this vacuum is lost.



- This can happen if the vacuum generator fails. An integrated vacuum reservoir maintains the vacuum for a short safety period whose duration depends on the porosity of the work piece surface.
- If the vacuum generator fails, lower the load immediately if this is possible. Otherwise, leave the danger area below the load immediately.



• The unit draws in large amounts of air and hair and items of clothing can be drawn into the air inlet. Do not look into the air inlet when the unit is running: it is even possible for your eyes to be drawn into the air inlet.

4.6 Instructions for the Operator



- As an operator of the lifting device you must be trained before start-up. You must have read and understood the operating instructions and especially the chapter "Safety".
- Be sure that only authorized persons use the device. You are responsible for others in the operating range of the equipment.

4.7 Personal Protection Equipment

When operating the device always wear:

- safety shoes (with steel toe),
- tough gloves.
- Hearing protector

4.8 Behaviour in Emergencies

An emergency situation exists when:

· power suddenly fails (unit switches off) device switch off,



• the vacuum drops below -0,5 bar.

In such cases, lower the load immediately if this is possible. Otherwise, leave the danger area below the load immediately. The load will be dropped from the lifting device!





4.9 Checking the safety equipment

The vacuum lifting device has the • Pressure gauge following safety equipment:

Checking the

• Switch on the VPH.

Pressure Gauge:

• Place the VPH onto a metal plate, or similar, and suction.

A Valve at - 0,5 bar under-pressure must be reached.

Checking the suction hose and clamps:

Control and tighten the suction hose and clamps

Safety Advice for the 12-Volt-rechargeable Battery Diaphragm Pump must also be consulted!



5 Operating

5.1 Operating Elements



Main switch –on / off. This is to turn the pump on and off.

Caution! The suction guide line is automatically bled when the VPH is switched off.

For a description of the other elements, please refer to the Appendix: Operating Instructions for the Battery Diaphragm Pump!

To suction and release the load:

Main Switch ON = suction load, hold

Main switch OFF = release load (remove feet from danger area beforehand!)

5.2 Suction Plate

The suction plate brings the vacuum onto the load.

It is used to lift various objects.

Only use suction plates intended for the VPH Vacuum Power Handy.

Never exceed the permitted maximum carrying capacity of the suction plate!

5.3 General

- Do not let go off the handle of the device VPH whilst a load is being lifted..
- Never pull the load diagonally or drag it.



- Do not try to free loads which are stuck using the VPH.
- If there is a power failure, put down the load straight away if possible. Move away from the danger area immediately.
- Only suction and lift suitable loads (Check for stability and surface density).
- Always keep an eye on the pressure gauge. Never lift a load under 0,5 bar. If the pointer in the pressure gauge moves into the red zone below -0,5 bar, put down the load immediately.
- Set down the goods on clear, even surfaces only. Otherwise they could slip when released.



- Only release the load when it is fully and securely standing or lying down.
 Keep your fingers away from the load when relevant it to prevent them from being crushed!
- Always load the suction plates evenly.



5.4 Lifting Loads

- Position the device VPH directly, above the load. Avoid pulling it diagonally. Make sure the load is evenly distributed..
- Place the device VPH onto the load.
- Switch the device VPH on using the main =ON / OFF switch.
- The load is now suctioned.
- Look at the pressure gauge. As soon as a vacuum of -0,5 bar is reached, you can lift the load. On no account lift it earlier, as the load would fall off.
- When lifting, make sure that only one part at a time is being lifted! Carefully release any bits left hanging on with a screwdriver before lifting the load any further.
 Do not remove any bits with your hands they would get squashed!

5.5 Lowering Loads

- Lower the load and place it on clear, even surfaces, so that the load does not slip or tip.
- Switch off the diaphragm pump using the main ON / OFF switch.
 Caution! Once the machine is switched off, the suction lead is automatically bled and so the vacuum disappears. Always keep feet well away from the danger area!

5.6 Battery

LED-board: yellow = charged completely

green = normal status

red-green changing = battery low, charge

red = do not use, battery is empty

5.7 Damages of suction plate

Avoidance of damages:

To avoid damages of the rubber seal on the suction plate (chinks, abrasion) take notice, that: during the operation (lifting, transporting and lowering) with the device, the suction plate does not brush or pump against other products or materials.

Otherwise the rubber seal on the suction plate could be damaged (danger of pressure loss).



Product could fall down. Danger of accidents!



6 Maintenance and care

6.1 Maintenance

To ensure the correct function, safety and service life of the device the following points must be executed in the maintenance interval.



Take care that for all maintenance services the device is completely shut down!!

MECHNICAL Service interval First inspection after 25 operating hours

All 50 operating hours

Maintenance work

- Control and tighten all screws and connection.
 (The implementation is only allowed by an expert).
- Tighten all screws and connection (Take care that the tightening torques according to the property class of the screws are observed).
- Check all joints, bolts, guidance's and gears for correct function, if necessary adjust or replace it.
- Check all Grippers (if available) for signs of wear.
- Grease all slidings (if available) when the device is in opened position with a spatula.

Minimum 1x per year (at rough conditions shorten the interval)

Check of all the suspension parts, bolts and straps. Check for corrosion and safety by an expert.

6.1 Suction plate

Clean all bits, dirt and dust from the suction plate at least once a day. Replace any damaged or worn-out suction destroy the suction hose or make it leaky. Plates (splits, holes, distortions) immediately.



6.2 Removing errors

6.2.1 Fault finding

Fault	Cause	Remedy
A vacuum of -0,5 bar cannot be acieved.	The item to be lifted has splits, recesses or is porous.	The item is not suitable to be lifted with the device
	The foam rubber is damaged.	Replace the foam rubgber.
	The pressure gauge is faulty.	Replace the pressure gauge.
	The hose ors screws are leaky.	Replace the relevant parts.
VPH just wont work/ or no Vacuum available	Battery	Check the battery is fully charged
	value	Check the fuse is of the correct value (8amp) and is not blown
	seal	Check the seal around baseplate, if possable remove the seal and clean around the edge of the plate, and in the groove of the seal, but do not glue the seal on.
	vacuum pipe	Check the fitting that interfaces the vacuum pipe to the plate and check that it is fully tightened and has not come loose.
	air filter and the fittings	Check the air filter and the fittings such as pipe clips etc, and make sure they are tightly sealed.
	ON / OFF switch	Make absolutely sure that the ON / OFF switch is working ok.
	wires on solinoid valve	Check the wires on the solinoid valve are connected ok.
	short circuit on solinoid	Check the diode on the solinoid (1N4001 etc) has not gone short circuit, you can remove this completely or just cut it out, Do not replace this component
	pipes to the vacuum pumps	Check all pipes to the vacuum pumps are not damaged.
	foreign bodies	Check that there is a vacuum or pressure on the pumps and that they have not been damaged by the ingression of foreign bodies.
Load cannot be sucked. Prescribed negative pressure cannot be achieved no more. Negative pressure diminishes itself too fast, when switching the device off.	Leakage at vacuum plate by deposited dirt between rubber seal and suction plate. Rubber seal wore or porously (aging after effect of UV radiation)	Remove rubber seal from suction plate. Clean suction plate and slot in rubber seal. Draw up and fasten rubber seal on suction plate again. If necessary exchange rubber seal.



6.3 Repairs

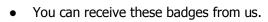
- Only persons with the appropriate knowledge and ability are allowed to repair the device
- Before the device is used again, it has to be checked by an expert.



For all repairs the device must be completely shut down!

6.4 Safety procedures

- It is the contructors responsibility to ensure that the device is checked by an expert in periods of max. 1 year and all recognized errors are removed (→ BGR 500).
- The corresponding regulations of the declaration of conformity have to be observed!
- We recommend, that after checking the device the badge "Safety checked" is put on the device. (Order-No.: 2904.0056)





The check by an expert must be proved!

Device	Year	Date	Expert	Company



6.5 Hints to the identification plate



Type, serial-number and production year are very important for the identification of your device. If you need information to spare-parts, warranty or other specific details please refer to these information.

The max. carrying capacity is the maximum load which can be handled with the device. Do not exceed this carrying capacity.

If you use the device in combination with other lifting equipment (Crane, chain hoist, forklift truck, excavator) consider the deadweight of the device



Examplel:

6.6 Hints to the renting/leasing of PROBST devices



With every renting/leasing of PROBST devices the original operating instructions must be included unconditionally (in deviation of the users country's language, the respective translations of the original operating instructions must be delivered additionally)!



7 Vacuumpump

7.1 General

This vacuum pump is equipped with a rechargeable 12 Volt 6,5 Ah lead battery, and the pump is powered by an in-built lead battery.

The recharging control system lets you see how charged up the battery is.

7.2 Safety Advice

- The voltage must comply with that stated on the vacuum pump data plate. The pump must only be powered by a 12 Volt direct current.
- Before working on the pump, including changing the supply hose, remove the plug from the socket.
- The lead wires have to be in perfect condition. Any damaged parts have to be replaced immediately.
- Only use original spare parts.
- Do not plug in the pump to the mains if it is raining or damp.
- When opening covers or removing parts, except for when this can be done by hand, live parts can be exposed. Connections can also be live.
- Before carrying out any maintenance work, repairs or replacing any parts, the pump must be disconnected from all power sources if it needs to be opened.
- Do not use the pump in rooms or in surroundings in which gases, fumes or dust are present or could be present.
- Protect the device for wetness and dampness.

Do not use the pump if safe working conditions cannot be guaranteed. It would not be safe to continue if:

- The pump is clearly damaged.
- The pump no longer works.
- It has been stopped for a long period or in unfavourable conditions.
- It is damaged during transportation.

Never switch the pump on straight away if it is brought in from a cold room to a warm one. The condensation could damage your pump. Let it come to room temperature without switching it on.



7.3 Description

The pump consist of the following parts:

- Robust aluminium casing with a ... to fix it onto the Probst stand.
- Two 12 Volt diaphragm pumps.
- Main switch on / off function using the main switch you can switch the pump on or off. By switching it off, the suction lead is automatically ventilated.
- Fuse holder with fine wire fuse.
- The Vacuum pump is fitted with a charging control system. 3 LEDs show you how charged the battery is.

Yellow LED above 14,5 Volt
 Voltage- Battery is overcharged

Green LED 11,5 - 14,5 Volt Voltage- Normal

Red LED under 11,5 Volt Voltage
 Battery needs charging

On the underpart of the pump you will find a socket. You can charge up the battery in this socket without having it dismantled.

On the underpart of the pump you will also find a connection for the suction hose. When the suction hose and the filter are inserted, the other end of the hose is attached to the suction plate.

On the filter element there is an arrow which indicates the air current. Please make sure that the air current is pointing towards the vacuum pump.



7.3.1 Charge battery

To ensure the perfect working of the pump, it is important that the lead rechargeable battery is always charged up.

To charge the battery:

Proceed as follows:

- Set the main switch to 0.
- Remove the lead hoses (suction hose)
- Insert the battery charger on the underside into the in-built socket.
- Plug the battery charger into the 220 Volt mains.

Once the battery has been successfully charged, disconnect the battery charger. Put the connection hoses in and switch on the pump at the main switch. (if everything is okay, the green LED will light up on the charging control panel).

As soon as the in-built battery falls under 11,5 Volt, the red LED will light up. The battery will then need recharging.

When you have finished, switch off the machine and remove the hoses (in compliance with all regulations).

7.4 Maintenance

The pump is basically maintenance-free.

All necessary spare parts are available for the vacuum pump.

Repaires should be only carried out by authorized experts.

Disconnect from the mains before starting any repairs.

The diaphragms are the parts which will wear out first. When replacing the diaphragms, the valves and the seals should also be replaced.

As and when required, it would pay to use suitable filters in order to improve the life of the pump considerably.

MAKE SURE THAT THE BATTERY IS NEVER TOTALLY FLAT.

REMEMBER THAT WHEN THE MACHINE IS NOT IN USE, THE BATTERY WILL STILL BE GOING FLAT.

MAKE SURE THAT NO LIQUIDS OR SOLIDS GET INTO THE PUMP.



7.5 Technical Data

Pump / Solenoid Valve

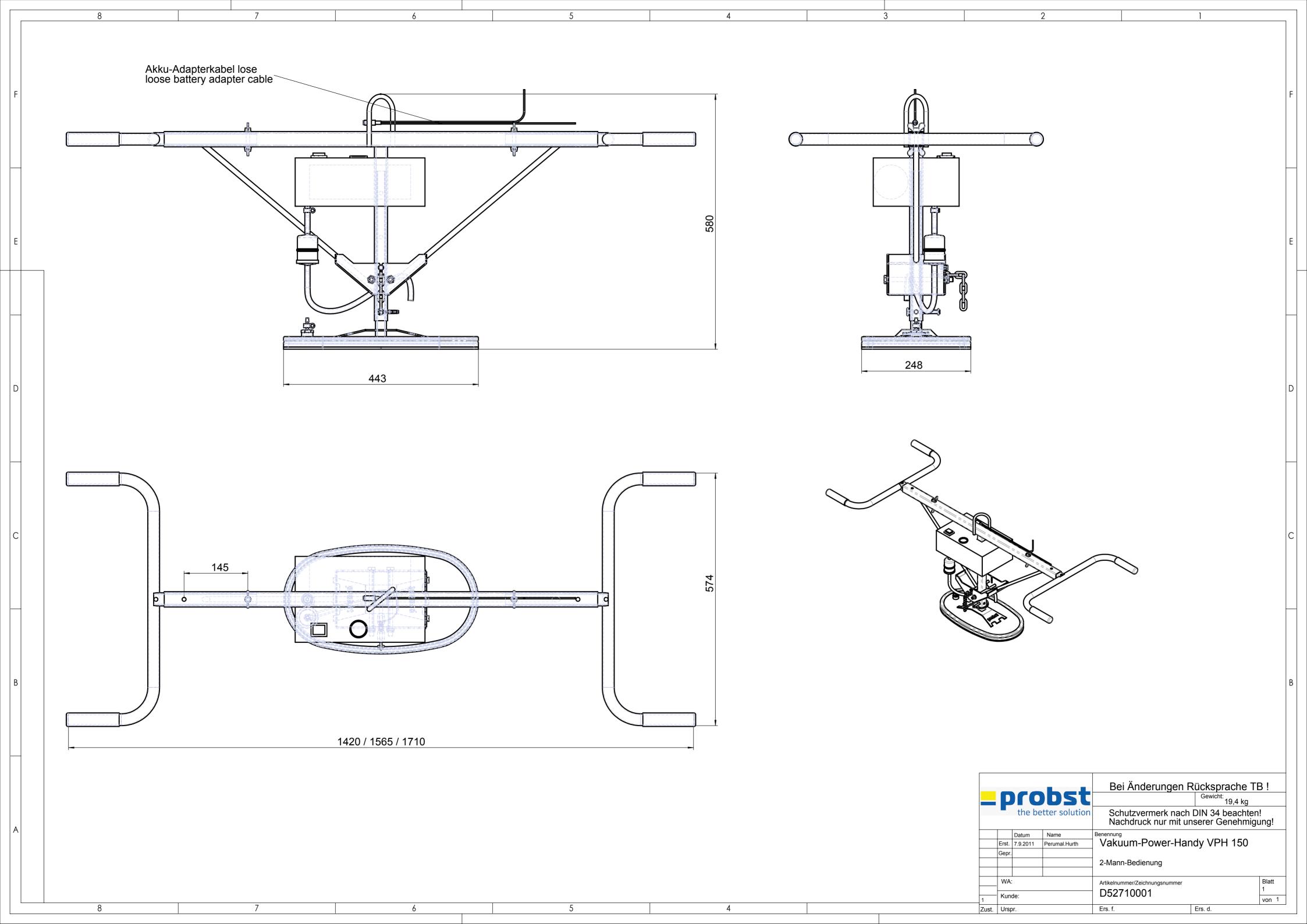
Type of Pump	7012 V (2)
Line Voltage	12 Volt DC
Power Inut	1,4 A
Conveying Caacity	18 NL/min.
Final Vacuum Minimum	70 %
2/2 Way Solenoid Valve	12V 6,5 Watt Solenoid

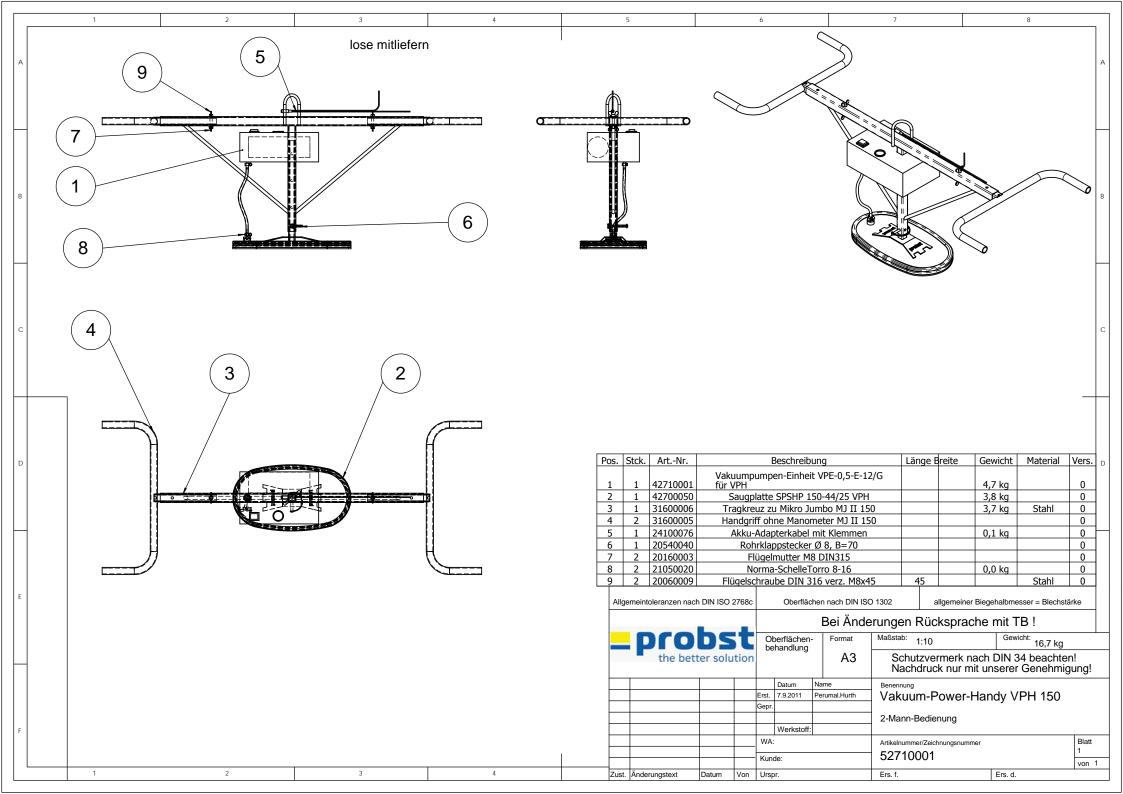
Part / Device

Tunt During	
Diaphragm	NBR Perbunan
Valves	Neopren
Pump Casing	Glass-fibre reinforced polyamide
Solenoid Valve Casing	Brass
Hoses (internal)	Silicone
Hoses (external)	PVC fabric hose

Lead Battery

Туре	12V6,5Ah
Charging Voltage Float in V/Cell	2,3-2,35
Charging Load Cycles in V/Cell	2,4-2,45
Transport	decree road GGVS – no. decree railway GGVE – no.





VPH

42710004 Ansaugfilter für VPH
Air filter for VPH 150
Air filter for VPH 150

42710020 Innenfilter für VPH VPH Internal Filter VPH Internal Filter





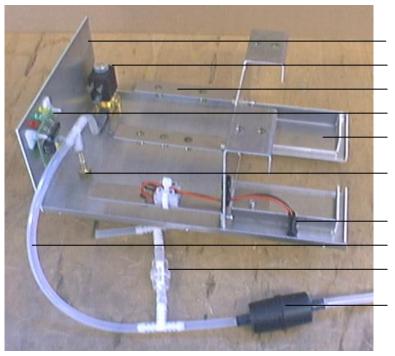
Spare Parts

Vakuum-Power-Handy VPH 150 Art.Nr.: 5271.0001



Art. Nr.	Discription		
	Aluminium – Housing		
4271.0014	complete 6 parts	1x	
4271.0005	Aluminium Housing top		
4271 0015	Aluminium		
4271.0015	Housing bottom		
4271.0016	Pump sheet metal		
4271.0017	Accu sheet metal		
4271.0018	Sheet metal		
4271.0019	Accu cover plate		
2530.0008	Vacuum pump 12V DC	2x	
2203.0027	2/2 Wege diverter valve 12 V DC	1x	
2412.0004	Seesaw switch black	1x	
2410 0162	Protection hood for	1x	
2410.0162	switch	IX	
2410.0164	Frame for switch	1x	
2410.0165	Security part	1x	
2410.0166	Fuse	1x	
2436.0007	LED-indication	1x	
2410.0167	Din plug for charger	1x	
2410.0168	Plug	1x	
2420.0007	Akku 12V 7,0 AH	1x	
4271.0020	Filter inside	1x	
4271.0004	Filter outside	1x	
4271.0021	Expanding tank black	1x	
2300.0011	Silicon hose	m	
2300.0011	Connection MS blank	111	
2529.0025	G 1/8"x6 (outside)	1x	
2216.0121	Connection MS blank		
	G 1/8"x6 (inside)		
2213.0019	Manometer -1bar, G1/8 "	1x	
EYU0001.000	Akkuadapterkabel mit Klemmen	1x	





4271.0015

2203.0027

4271.0016

2436.0007

4271.0017

2216.0121 (2529.0025)

2410.0167

2300.0011

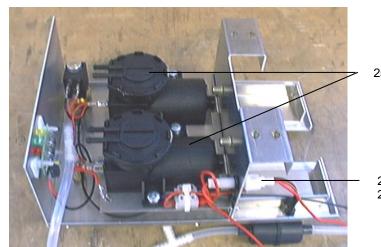
4271.0020

4271.0021

Spare Parts

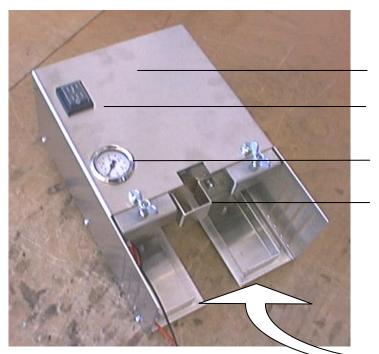
Vakuum-Power-Handy VPH 150 Art.Nr.: 5271.0001





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2410.0165 2410.0166



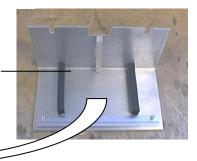
4271.0005

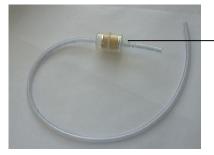
2412.0018 2410.0154 2410.0162

2213.0019

4271.0018

4271.0019





4271.0004

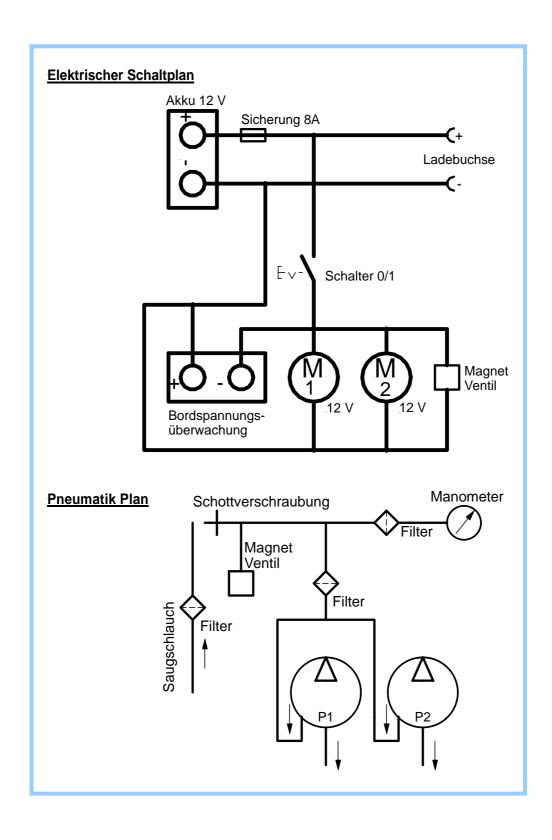


Zubehörteil: Akkuadapterkabel mit Klemmen EYU0001.000

Elektrischer Schaltplan / Pneumatik Plan Vakuum Power-Handy (VPH)

(MGV70B2.001)





Proof of maintenance



The claim under guarantee for this device only exists and is subject to the proper execution of the mandatory maintenance works. (In case of warranty request please always attach a copy of the proof of maintenance)

Operator:			
Device type	pe: Article	-No.:	
Device-No	o.: Year of	f make:	
First insp	ection after 25 operating hours		
Date:	Maintenance work:	Inspection t	
Date.	Wallichance work.	Trispection	by company.
]		
; 		Company stamp	
<u> </u> 			
¦ 	j	Name	Signature
After 50	operating hours		
Date:	Maintenance work:	Inspection b	y company:
i 		Company stamp	
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! ! ! L		Name	Signature
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Minimum	1x per year		
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Name Signature

Proof of maintenance



The claim under guarantee for this device only exists and is subject to the proper execution of the mandatory maintenance works. (In case of warranty request please always attach a copy of the proof of maintenance)

Operator:			
Device type	pe: Article	-No.:	
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Name Signature

Proof of maintenance



The claim under guarantee for this device only exists and is subject to the proper execution of the mandatory maintenance works. (In case of warranty request please always attach a copy of the proof of maintenance)

Operator:			
Device type: Article -No.:		-No.:	
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