

Vacuum-Stonemagnet

SM

Order-No.:

5272.0002

V5

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-Stonemagnet

SM

Manufacturer: Probst Greiftechnik ◆ Verlegesysteme GmbH

Gottlieb-Daimler-Strasse 6 D-71729 Erdmannhausen

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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

Minimum distance to avoid squeezing any parts of the body (ISO 13854).

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

Address: Probst Greiftechnik ◆Verlegesysteme GmbH; Gottlieb-Daimler-Str. 6; D-71729 Erdmannhausen

(M. Probst, Managing director)



3 General



- 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.

3.1 Authorized inset

The vacuum lifting device (Stone Magnet-SM) is intended for lifting, transporting and laying non-porous stone slabs, concrete elements, steps, stoneware pipes, etc. The loads may be lifted only a short distance from the ground.



The maximum lifting capacity of 200 kg or 400 kg may not be exceeded.

Some of the suction plates which can be mounted on the vacuum lifting device reduce the lifting capacity of the device. The maximum load is specified on each suction plate and may never be exceeded.

The vacuum lifting device (SM) may be used only suspended vertically from a crane or other lifting tackle in conjunction with a lifting device (such as excavator or truck loader crane).



Transport of persons and animals with the load or the vacuum lifting device (SM) itself is forbidden!

Unauthorised modification of the vacuum lifting device (SM) is forbidden for safety reasons!



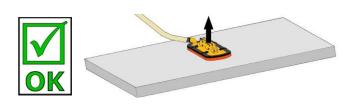
The operating, maintenance and servicing instructions in this manual must be observed.

3.1.1 Emissions

The continuous sound pressure level generated by the unit is less than 75 dB(A).



- 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!!



- Some suction plates which can be mounted to the device will reduce its carrying capacity. The maximum load is indicated on each suction plate.
- Use only suction plates which are *approved* for this device!



Do not exceed the maximum carrying capacity of the suction plates!!!Danger: Load (stone slabs) will fall down!



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.



3.2 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.

3.3 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



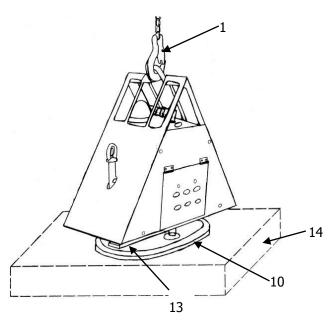
3.4 Safety Marking

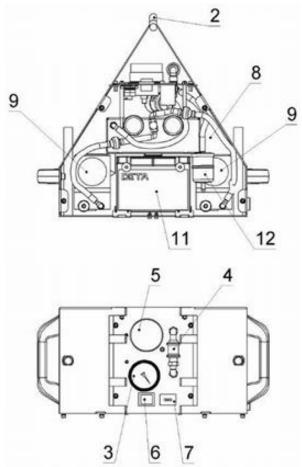
WARNING SIGN	V							
Symbol Meaning Order-No.:								
sale linit or as experience from	It is not allowed to be under hanging loads. Danger to life!	2904.0101						
Do not lift any components off-centre. 2904.0383 (102x52 mm)								
REGULATORY S	SIGN							
Symbol	Meaning	Order-No.:	Size:					
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Read operating instructions before operating.	2904.0366 2904.0365	30x57 mm 50x95 mm					



4 Description

3.1 Components of the Vacuum Lifting Device





Pos.	Description							
1	Crane hook (not included)							
2	Lifting eye							
3	Vacuum gauge							
4	Manual slide valve							
5	Red flashing lamp							
6	On/Off switch (3 positions)							
7	LED indicators for battery charge							
8	8 Housing with vacuum reservoir							
9	Vacuum pumps							
10	Suction plate (not included)							
11	Battery							
12	Dirt filter							
13	C-rail of suction pad (not included)							
14	Stone slab							



4.1 Controls

4.1.1 On/Off switch (3 positions)

Position o:

Vacuum pumps switched off.

Position 1:

• One vacuum pump active: power-saving mode for non-porous loads.

Position 2:

Both vacuum pumps active: for lifting porous loads or for faster vacuum generation.

4.1.2 Manual slide valve

For gripping and releasing the load:

- move away from the flashing lamp to grip and hold the load;
- move towards the flashing lamp to release the load.

4.1.3 Vacuum pumps

- The vacuum pumps generate the vacuum for the vacuum lifting device (SM).
- They are provided with power by a rechargeable and replaceable 12 V battery.
- Three LEDs indicate the state of charge of the battery:
 red = battery fully discharged / green = battery OK / yellow = battery charge critical --> recharge or replace battery.
- For improved safety, there is a vacuum switch installed in the lifting device SM.
- If the vacuum drops to -0.53 bar, the vacuum pumps are automatically switched on again until the vacuum reaches -0.66 bar.

4.1.4 Suction plates

- The various suction plates apply the vacuum to the load. They permit lifting, transport and positioning of various objects (see "Use for the Intended Purpose").
- Use only suction plates which are approved for the vacuum lifting device (SM).
- Never exceed the maximum lifting capacity of the suction plates.



5 Technical Data

	Switch position 1	Switch position 2
	1 pump active	2 pumps active
Maximum lifting capacity*	200 kg/400 kg (SPS200/400) **	200 kg/400 kg (SPS200/400) **
Intrinsic weight (without suction plate)	approx. 30 kg	approx. 30 kg
Volume of vacuum reservoir	approx. 2 l	approx. 2 l
Suction capacity of the vacuum pump	29 l/min	58 l/min
Maximum vacuum	700 mbar	700 mbar
Operating temperature	-20 °C to 40 °C	-20 °C to 40 °C
Supply voltage	12 V DC	12 VDC
Current consumption	3.8 A	7.6 A
Temperature	max. 40 °C	max. 40 °C
Ambient temperature	20 °C	20 °C
Pumped medium	air	air

^{*} The maximum lifting capacity applies with a vacuum of -0.46 bar with all suction plates in contaction with the load.

5.1 Miscellaneous

- Suction plate SPS 200 / lifting capacity 200 kg / 280 mm x 470 mm.
- Suction plate SPS 400 / lifting capacity 400 kg / 350 mm x 750 mm.
- Special suction plates available to order (e.g. for stoneware pipes).
- Quick-change system for suction plates.
- Crossbeam TRA-SM for mounting multiple suction plates available to order.
- Rechargeable and replaceable 12 V battery.
- Red lamp flashes at a vacuum of o-580 mbar.

- Automatic re-evacuation feature switches vacuum pumps on again when the vacuum drops to -0,53 bar.
- LED indicators show the state of charge of the battery: Red = battery empty / Green = battery OK / Yellow = battery charge critical --> recharge or replace battery.
- Non-return valve maintains vacuum if pump fails.
- Manual side valve for releasing the vacuum.
- Metal parts galvanised.
- Robust housing with integrated lifting eye for suspension from lifting tackle.

^{**} SPS 200/SPS 400 =Suction plate 200 kg and suction plate 400 kg



6 Safety

6.1 Personal safety requirements

 Only qualified, authorized certificated personal is allowed to operate the device and all devices which are connected (lifting equipment).



- Each operator must have read and understood the operating instructions.
- The manual guiding is only allowed for machines with handles.



6.2 Protective equipment

The protective equipment must consist, according to the safety regulations of the following parts:

- Protective clothing
- Safety gloves
- Safety shoes

6.3 General

- Before using the vacuum lifting device (SM) check the functions and the working condition.
- Maintenance and lubrication are only permitted when vacuum lifting device (SM) is shut down!



- Do not use the vacuum lifting device (SM) device, until all faults which can cause safety hazards are removed.
- If there are splits at carrying parts of the vacuum lifting device (SM), 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.

6.4 Safety at work



• The use of the vacuum lifting device (SM) is only permitted in proximity to the ground. Do not swing it over peoples heads.



While using the vacuum lifting device (SM) is the stay of persons in the working area forbidden.
 Except it is indispensable. Caused of the way of using the vacuum lifting device (SM), e.g. if the device must be leaded by hand.



- While using the vacuum lifting device (SM) be sure that there are no persons in the working area. Danger to Life!!
- The operator is not allowed to leave the control unit as long as the vacuum lifting device (SM) loaded with load. The load must always be in the range of vision of the operator.
- The manual guiding of is only allowed for vacuum lifting devices with handles.



Do not use the vacuum lifting device (SM) to jerk seized set down load.



- Do not lift any components off-centre, because that could fall down.
- The vacuum lifting device (SM) should not be opened if the opening path of the gripping arm is blocked by a resistance (e.g. other concrete blocks or the like)!



- The capacity and the nominal width the vacuum lifting device (SM) are not allowed to cross over.
- Avoid quick or jerky movements with the vacuum lifting device (SM). E.g. caused through driving fast over uneven grounds/site is forbidden. Because the gripping good could fall down.

6.5 Requirements for the Installation Location



- The lifting vacuum lifting device (SM) may not be used in explosion-risk rooms or areas.
- The ambient temperature may not exceed and 40 °C (if this temperature is exceeded, please consult the manufacturer before using the device).
- The vacuum lifting device (SM) must be connected to the electrical supply and the main switch of
 the crane from which it is suspended.
 Ensure, by means of internal instructions and regular inspections, that the area around the
 workplace is kept clean and tidy at all times.

6.6 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.
- The working with the vacuum lifting device (SM) in case of atmospheric editions under 37,5° F is forbidden!
 Because the goods could be fall down caused by dampness or freezing.



- Take care in case of thunderstorm!
- 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 workpiece 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.



6.7 Workplaces

• The workplace of the operator is in front of the operator handle. The operator must stand so that he can see the vacuum gauge at all times.

6.8 Behaviour in Emergencies

An emergency situation exists when:

- power suddenly fails (unit switches off),
- the vacuum drops below -0.46 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!

6.9 Testing the Safety Devices

The vacuum lifting device (SM) is equipped with the following safety devices:

- vacuum gauge
- red flashing lamp



Test the safety devices at the beginning of each working shift (if the device is used intermittently) or once per week (if the device is used continually).

6.9.1 Testing the vacuum gauge

- Switch on the vacuum lifting device (SM).
- Place the vacuum lifting device (SM) on a sheet of metal or a similar airtight surface and apply the vacuum.



- Caution: only apply the vacuum. Do not lift the object, since it may be dropped during the test.
- Switch off the vacuum pump and observe the vacuum gauge. The vacuum may not drop by more than 0.1 bar per minute. If it drops faster than this, locate and rectify the fault before using the lifting device.

6.9.2 Testing the red flashing lamp

- Switch on the vacuum pump.
- The red lamp must flash until the vacuum reaches -0.58 bar and is then switched off automatically.
- Lift the edge of the rubber sealing lip with a screwdriver until the vacuum drops below -0,5 to -0,46 bar: the red lamp must start to flash again.



6.9.3 Inspecting the vacuum hoses and hose clamps

• Check that all vacuum hoses and hose clamps are securely seated. Tighten any loose connections.

6.9.4 Testing the vacuum reservoir

• See the sub-section "Leak test" in the section "Maintenance"



• Rectify any detected faults before using the lifting device. If a fault becomes apparent during, switch off the lifting device and rectify the fault.

6.9.5 Hydraulic excavator and other lifting equipment

- Hydraulic excavator and other lifting equipment has to be in good, safe working condition.
- Take care that the maximum capacity of the hydraulic excavator and other lifting equipment is not exceeded.
- Only authorized, certificated and qualified personnel is allowed to operate the lifting equipment / fork lift.
- The operator staff must have all the necessary qualifications.



7 Installation

7.1 Commissioning

The vacuum lifting device (SM) may be installed and maintained only by suitably qualified mechanics and electricians. Any work on the electrical components may be done only by qualified electricians.

- Place the lifting eye of the vacuum lifting device on the hook of the lifting tackle and secure it correctly. Note the dead weight of the lifting device and the maximum lifting capacity of the lifting tackle!
- Check the state of charge of the battery, as indicated by the three LED's: Red = battery discharged Green = battery OK
- Yellow = battery charge critical --> recharge or replace battery.
- The use of fast chargers and chargers without overcharge protection is not permitted. Although fast
 chargers can be used, they are not recommended because they do not fully charge the battery, resulting in a
 shorter battery service life.

7.2 Mounting the suction plate on the vacuum lifting device

Switch off the lifting device before mounting a suction plate!

- Insert the threaded rods of the T-shaped block into the two holes in the bottom of the housing and push the rods in until they project from the top of the housing.
- Screw the ring nuts on to the threaded rods (2-3 turns).
- The T-shaped block must be far enough away from the base of the housing to permit the C-rail of the suction block to be slid onto it from the side.
- Tighten the ring nuts and check that the suction plate is secure.
- Connect the vacuum hose to the suction plate.
- Before lifting any loads, check the safety devices of the lifting device.

The suction plate can be changed as follows:

- Switch off the vacuum lifting device (SM).
- Disconnect the vacuum hose.
- Loosen the ring nuts, holding the suction plate in position. Then slide off the suction plate.
- Mount the new suction plate on the lifting device as described above.



8 Operation

8.1 General

Before the vacuum lifting device is used by the operator, the following must be checked by a mechanic. Any faults which are detected must be rectified before the vacuum lifting device is used.

8.2 Lifting Loads

- Position the vacuum lifting device directly over the load. Avoid tilting the load during lifting. Ensure that the load is balanced.
- Place the vacuum lifting device on the load.
- Switch on the lifting device by moving the main switch to position 1 or 2, depending on the surface finish of the load and/or how fast the vacuum is to be established.
- Slide the sleeve of the manual slide valve away from the red lamp.
- The load is now sucked.
- Observe the vacuum gauge and the red lamp. When the vacuum reaches a value of -0.58 bar (the red lamp stops flashing), you can lift the load.
 - Never attempt to lift the load before this, since it will be dropped.



When lifting, ensure that only one piece is picked up. If other pieces below it are also picked up, carefully prise them off with a screwdriver before lifting the load any higher.
 Do not attempt to pull them off by hand, since your fingers may be trapped!

8.3 Lowering Loads

- Lower the load on to a flat surface which is free of obstacles, so that it cannot slide away or tip over when released.
- Slide the sleeve of the manual slide valve back towards the red lamp.
- The load is now released.



9 Maintenance and care

9.1 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

After 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.

9.2 General Notes

The vacuum pumps may not be opened during the warranty period, since this will invalidate the warranty!



9.3 Maintenance Plan

	Inte	rval			
	Daily	Weekly	Monthly	Every 6 months	Every 12 months
Check the safety devices:	Х				х
- vacuum gauge OK?					
Inspect the filter		Х			х
Electrical equipment OK? Cable glands tight?					Х
Check the state of charge of the battery	Х				х
Drain off condensation		Х	х		
Are the vacuum hoses in good condition (not brittle, not kinked, no abrasion, no leaks)?)		х		х
Are all connections and hose clamps tight.?				Х	
Are the brief operating instructions, the rating plate and the load plate still attached to the device?					х
Are the Operating Instructions still available and are the users familiar with them?					х
Inspect supporting elements (crane beam, etc.) for deformation, wear and other damage.					х
Clean and inspect the suction plates (no cracks, sealing lip free of damage, etc.) and replace as necessary		х			х
Is the inspection certificate up to date?					х
General condition of the device					х
Leak test			Х		Х

9.4 Suction Plates and Sealing Lips

Clean the sealing lips once per week to remove any objects and dirt such as sand, stone particles, dust etc. Clean foam-rubber with compressed air and/or water jet.

Clean slot in the sealing lip with a cloth and/or blow out with compressed air.

Damaged or worn sealing lips (cracks, holes, deformation) must be replaced immediately.

Use only cold solvent for cleaning the device. Do not use benzene or caustic liquids, since these will damage the hoses.



9.5 Filter

Inspect the paper filter at least once per week.

If it is very dirty, replace it.

Procedure:

- Open the cover of the lifting device.
- Loosen the hose clamp and take out the filter.
- Install the new filter and secure it with the hose clamp.
- Close the cover of the lifting device.

9.6 Draining Condensation

During vacuum generation, the moisture in the air is condensed into water.

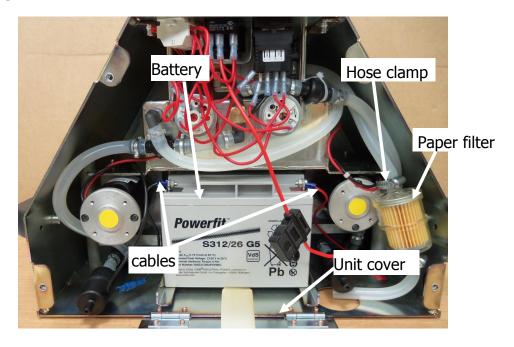
This condensation must be drained off at least once per week.

To do this, open the drain cock on the device and allow the water to run out. Then close the drain cock again





9.7 Changing the Battery



Procedure

- Switch off the lifting device.
- Open the cover.
- Disconnect the power cables and remove the battery.
- Install the new battery and connect the power cables to it.

 Connect the cables with the correct polarity (red to red and black to black).
- Close the cover again.

9.8 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.

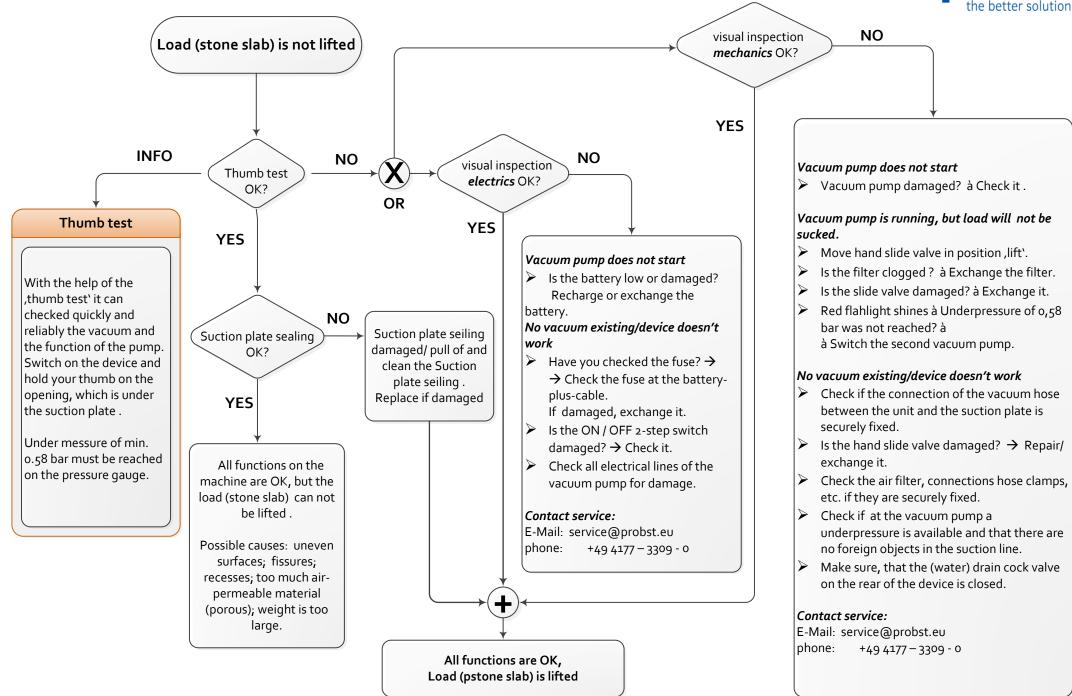


For all repairs the device must be completely shut down!



9.9 Troubleshooting





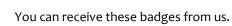




9.10 Safety procedures

- It is the contractors 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 + inspection sticker with date)





The check by an expert must be proved!

Device	Year	Date	Expert	Company



9.11 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.

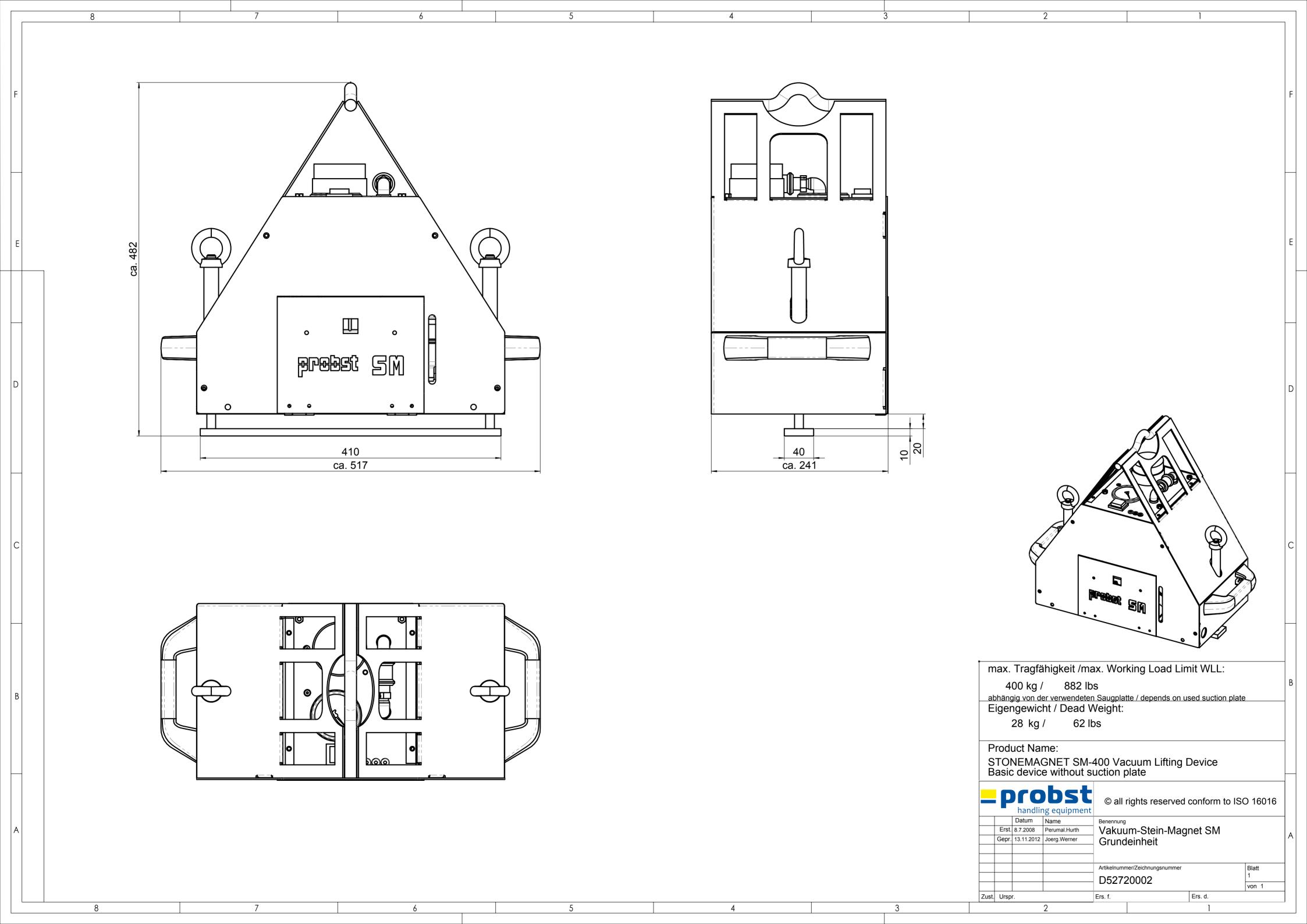
If you use the device in combination with other lifting equipment (Crane, chain hoist, forklift truck, excavator) consider the deadweight of the device

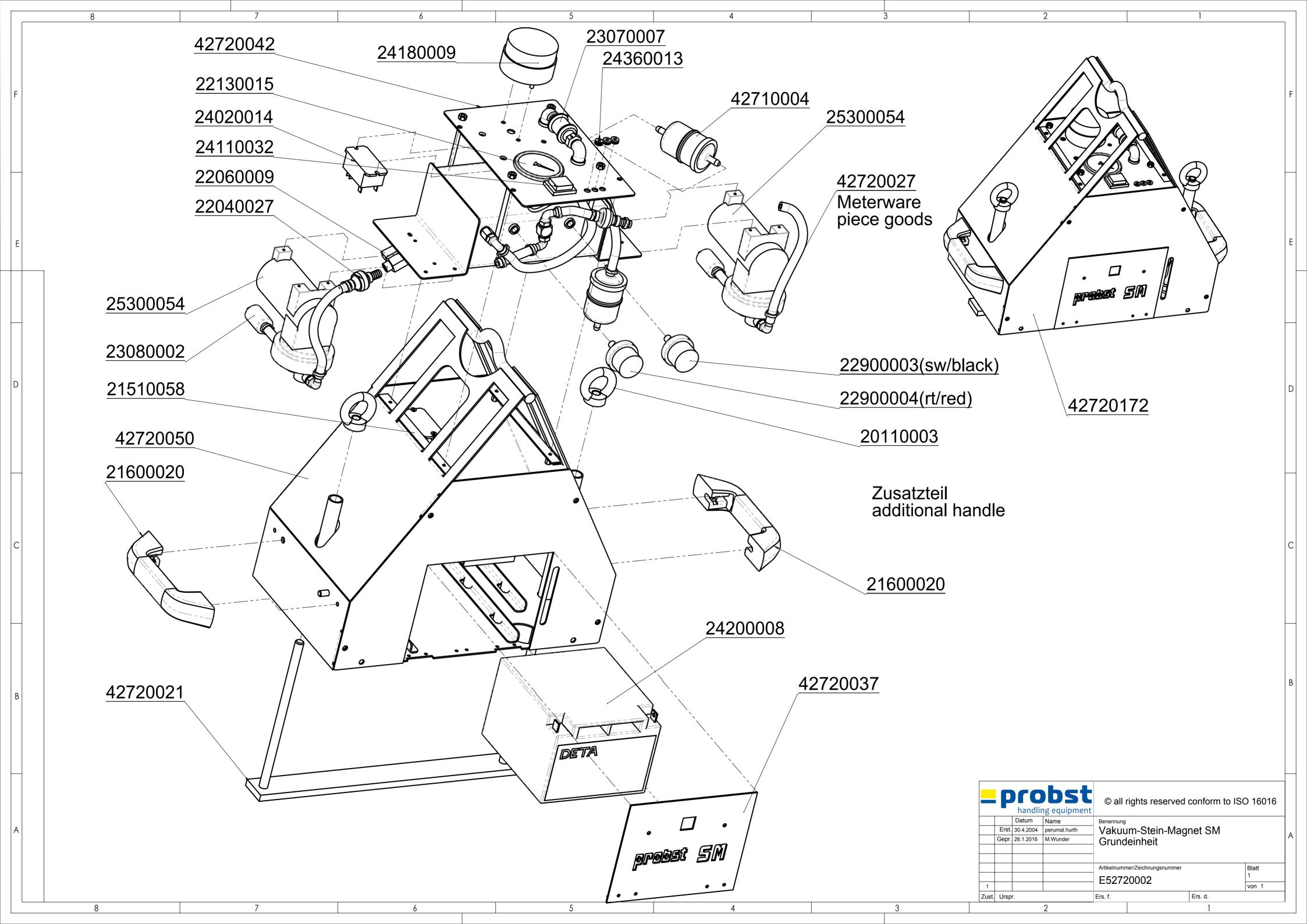


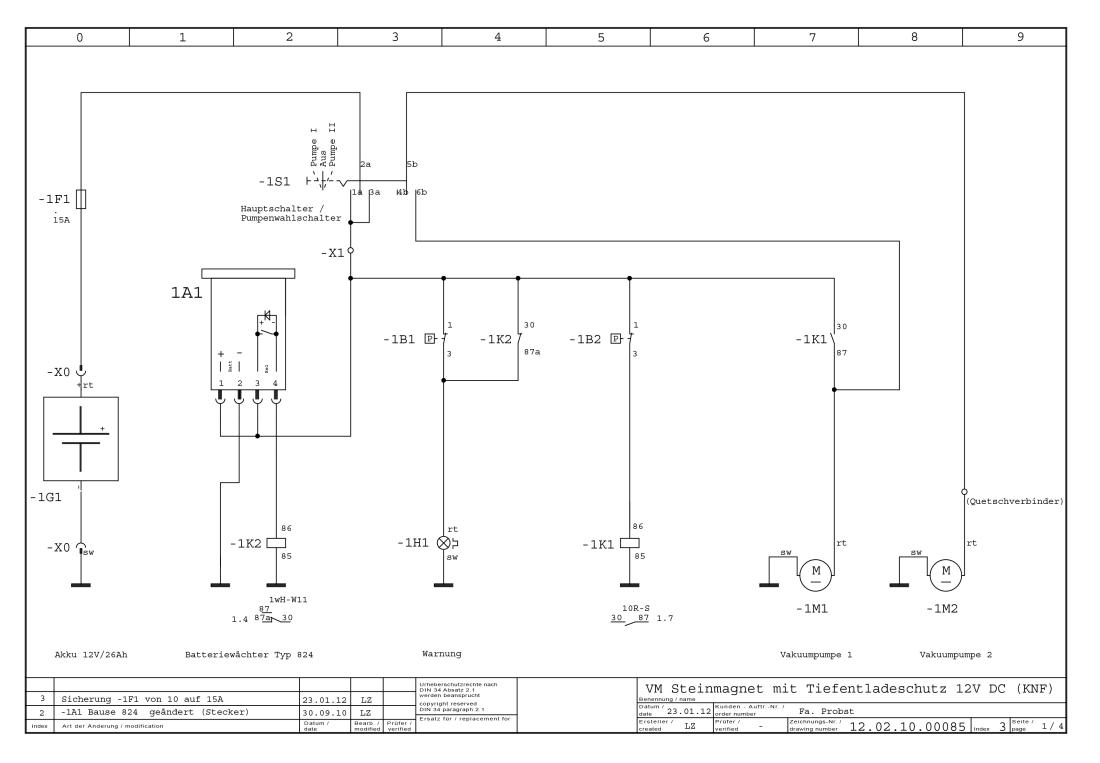
9.1 Hints to the renting/leasing of PROBST devices

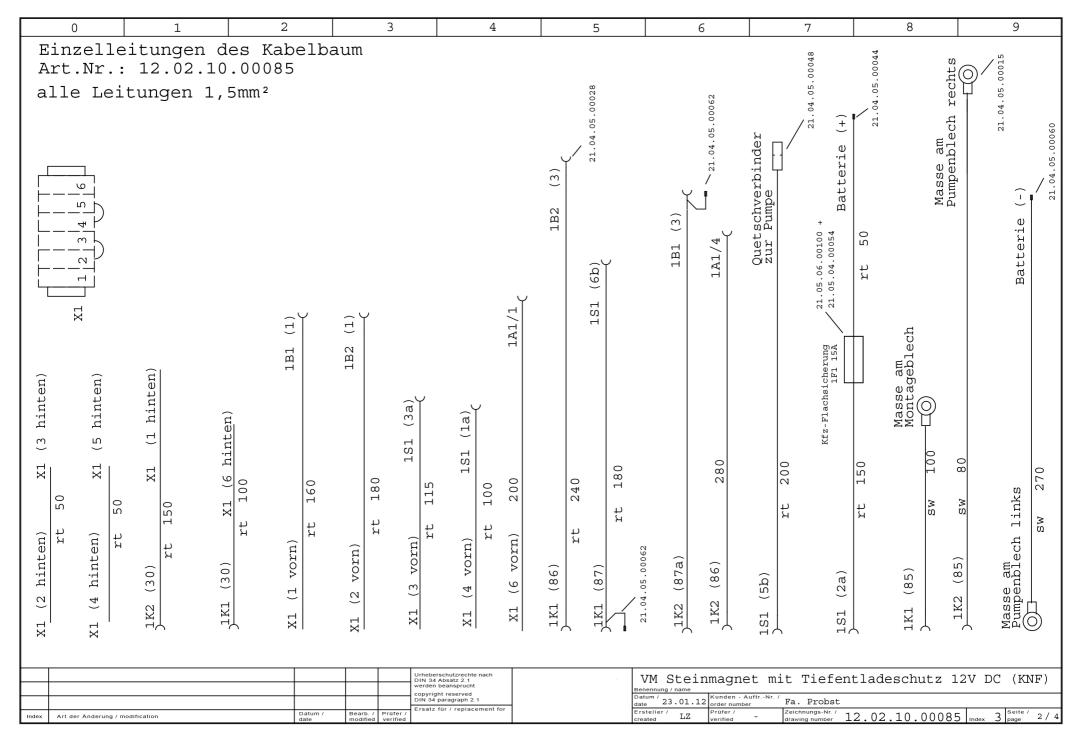


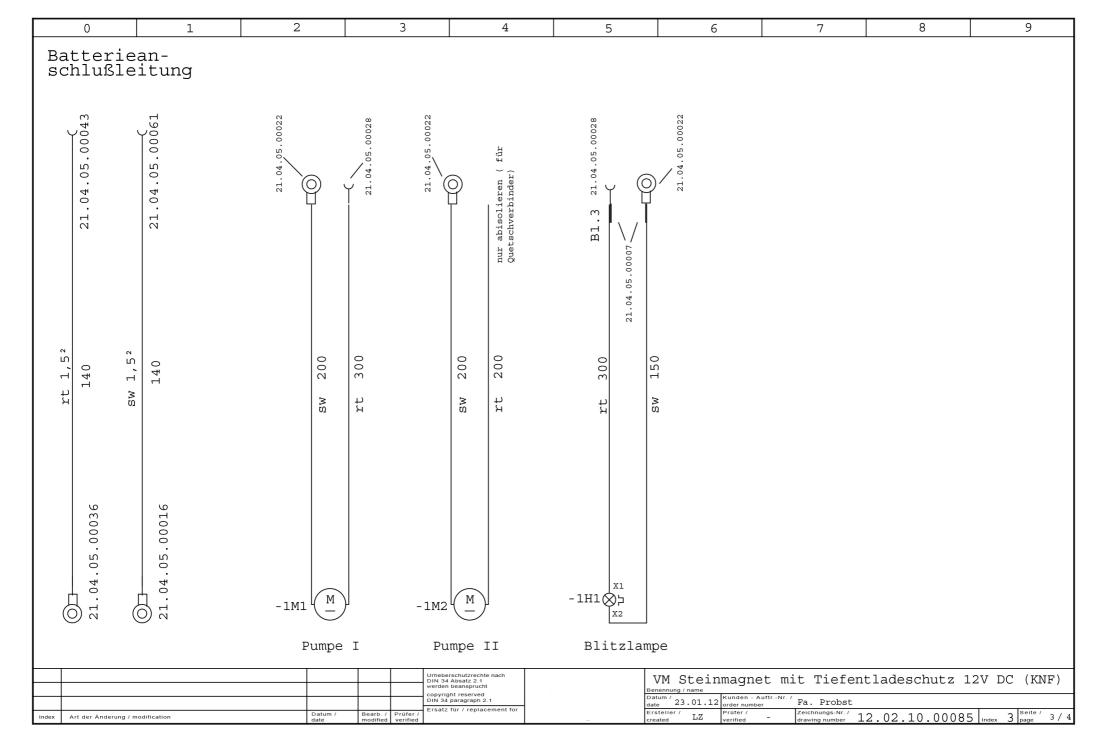
With every renting/leasing of PROBST devices the original operating instructions must be included unconditionally (in deviation of the users country's language, the respective translations of the original operating instructions must be delivered additionally)!

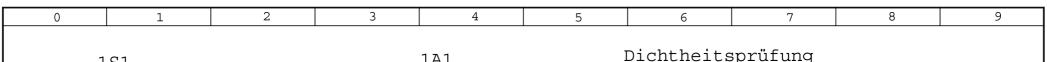


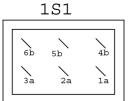








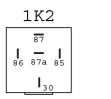




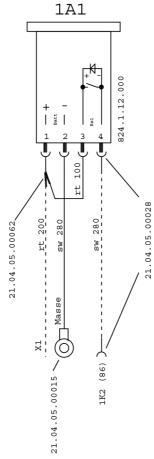
Schalter (von unten gesehen)

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Anschlüsse des Relais (von unten gesehen)



Anschlüsse des Relais (von unten gesehen)



Batteriewächter

Dichtheitsprüfung

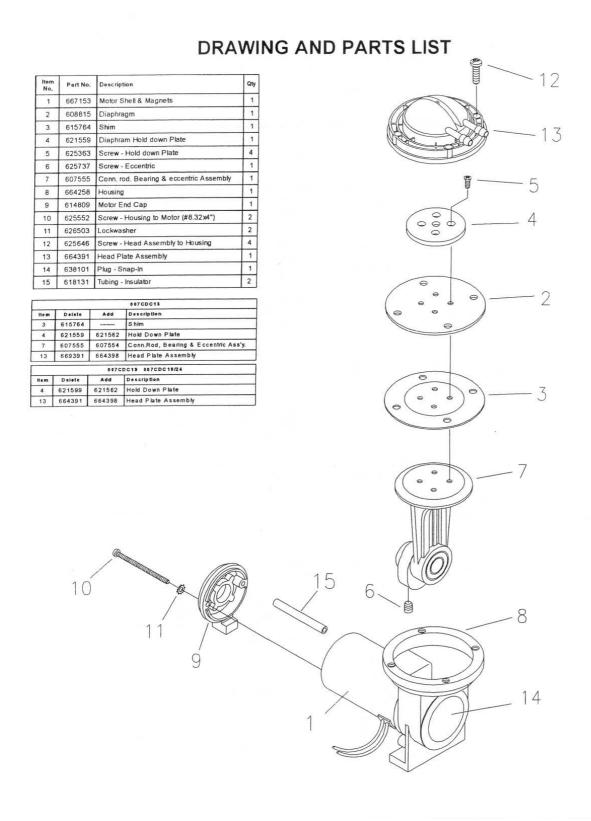
Innerhalb 15min. darf das Vakuum von -660 nicht unter -560mbar fallen

Einstellung Vakuumschalter für Pumpe Einstellung erfolgt beim Betrieb mit EINER Pumpe Pumpe Aus bei -660mbar (+/- 20mbar) Hysterese 100mbar (+/- 20mbar)

Einstellung Vakuumschalter für Lampe Einstellung erfolgt beim Betrieb mit EINER Pumpe Blitzlampe Aus bei -660mbar (+/- 20mbar) Blitzlampe Ein bei -430mbar (+/- 20mbar)

				Urheberschutzrechte nach DIN 34 Absatz 2.1	VM Steinmagnet mit Tiefentladeschutz 12V DC (KNF)		
				werden beansprucht copyright reserved	Benennung / name		
					DIN 34 paragraph 2.1	DIN 34 paragraph 2.1	Datum / 23.01.12 order number Fa. Probst
Index	Art der Änderung / modification	Datum / date	Prüfer / verified		Ersteller / created LZ Prüfer / verified - Zeichnungs-Nr. / drawing number 12.02.10.00085 Index 3 page 4 / 4		

Stein Magnet (SM) - Ersatzteile Vakuum Pumpe



Proof of maintenance



1) via e-mail to service@probst.eu / via fax or post

Warranty claim for this machine only apply for performance of the mandatory maintenance works (by an authorised specialist workshop)! After each completed performance of a maintenance interval the included form must be fill out, stamped, signed and send back to us immediately ¹⁾.

Operator: Article -No.: Device type: Year of make: ____ Device-No.: First inspection after 25 operating hours Maintenance work: Date: Inspection by company: Company stamp Signature All 50 operating hours Maintenance work: Date: Inspection by company: Company stamp Company stamp Signature Company stamp Signature Minimum 1x per year Date: Maintenance work: Inspection by company: Company stamp Signature Company stamp

Signature

Proof of maintenance



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Operator: Article -No.: Device type: Year of make: ____ Device-No.: First inspection after 25 operating hours Maintenance work: Date: Inspection by company: Company stamp Signature All 50 operating hours Maintenance work: Date: Inspection by company: Company stamp Company stamp Signature Company stamp Signature Minimum 1x per year Date: Maintenance work: Inspection by company: Company stamp Signature Company stamp

Signature

Proof of maintenance



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Signature