



Operating Instructions

Translation of original operating instructions

SPEEDY VS-140/200 Vacuum Hand Laying Device

**SPEEDY VS-140/200 / SPEEDY VS-140/200-XL
SPEEDY VS-140/200-110 / SPEEDY VS-140/200-XL-110**

Note

The operating instructions were originally written in German. Store in a safe place for future reference. Subject to technical changes without notice. No responsibility is taken for printing or other types of errors.

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Contact

Probst GmbH

Gottlieb-Daimler-Straße 6

71729 Erdmannhausen, Germany

info@probst-handling.de

www.probst-handling.de

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1 Important information

1.1 The technical documentation is part of the product

1. For problem-free and safe operation, follow the instructions in the documents.
2. Keep the technical documentation in close proximity to the product. The documentation must be accessible to personnel at all times.
3. Pass on the technical documentation to subsequent users.
 - ⇒ Failure to follow the instructions in this operating instructions may result in life-threatening injuries!
 - ⇒ Probst is not liable for damage or malfunctions that result from failure to heed these instructions.

If you still have questions after reading the technical documentation, contact Probst-service at:

www.probst-handling.de

1.2 Note on Using these Operating Instructions

The SPEEDY VS-140/200 product is generally referred to as the lifting device.

The Probst GmbH is generally referred to as Probst in these operating instructions.

These operating instructions contain important notes and information about the different operating phases of the lifting device:

- Transport, storage, start of operations and decommissioning
- Safe operation, required maintenance, rectification of any faults

The operating instructions describe the lifting device at the time of delivery by Probst.

1.3 Warnings in this document

Warnings warn against hazards that may occur when handling the product. There are four levels of danger that you can recognize by the signal word.

Signal word	Meaning
DANGER	Indicates a high-risk hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium-risk hazard which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a low-risk hazard which, if not avoided, could result in minor or moderate injury.
NOTE	Indicates a danger that leads to property damage.

1.4 Symbol



This sign indicates useful and important information.

- ✓ This symbol represents a prerequisite that must be met before an action is performed.
- ▶ This sign represents an action to be performed.
- ⇒ This sign represents the result of an action.

Actions that consist of more than one step are numbered:

1. First action to be performed.
2. Second action to be performed.

1.5 Information Signs on the Lifting Device

Warning electrical voltage
2904.0397



Warning Crushing hazard to hands
2904.0396



Warning electrical voltage risk of death! Always disconnect the mains plug from the power supply before opening the housing.
2904.0387



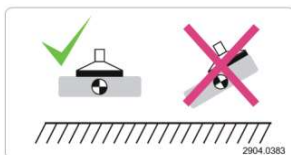
Next inspection according to UVV
(German accident prevention regulations, valid for Germany)
2904.0056



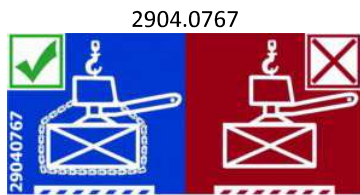
Date indicator for UVV inspection



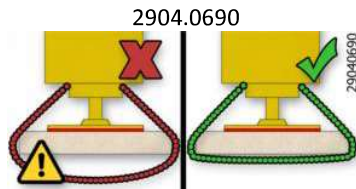
Lift the load at the center of gravity
2904.0383



Once suction is applied, the load may not under any circumstances be lifted and transported without being further secured with the load securing chain.



The load securing chains must be tight around the load. The load securing chain may never hang loose underneath the load!



Never stand under suspended loads.

- 2904.0210 – 30 mm
- 2904.0209 – 50 mm
- 2904.0204 – 80 mm



Read the operating instructions.

- 2904.0665 – 30 mm
- 2904.0666 – 50 mm



Ear protection mandatory

2904.0298



1.6 Type Plate

Type plate (example)



The type plate is permanently attached to the product and must always be clearly legible.

The type plate contains the following data:

- Part number
- Device number
- Serial number
- Year of manufacture
- Device weight

- Max. lift capacity
- ▶ Please specify all the information above when ordering replacement parts, making warranty claims or for any other inquiries.

2 Fundamental Safety Instructions

2.1 Intended Use

The lifting device SPEEDY VS-140/200 is used to lift, transport and set down porous sheets and exposed-aggregate concrete surfaces and similar objects close to the floor.

- The standard version of the lifting device is manually operated by two operators. Maximum permitted load 140 kg.
- Using the optionally available suspension eye, the lifting device can also be attached to a suitable transport device (crane, construction vehicle, etc.). Only handle loads with a load securing chain. Maximum permitted load 200 kg.

The control handles are permitted only for a maximum lift capacity of 140 kg.

The loads to be lifted must be rigid enough to ensure they are not destroyed during lifting.

The suction plate is not included in delivery. The user must ensure that only suction plates suitable for the load to be lifted are used. It must be designed to be mounted to the lifting device.

The maximum lift capacity must not be exceeded (> See chapter. Technical data). The maximum permitted load depends on the suction plate used (see the lift capacity plate on the suction plate).

The lifting device is built in accordance with the latest standards of technology and is delivered in a safe operating condition; however, hazards may arise during use.

2.2 Non-Intended Use

Probst accepts no liability for damage caused by the use of the lifting device for purposes other than those described under Intended Use. The use of the lifting device for loads that are not specified in the order confirmation or that have different physical properties than those specified in the order confirmation shall be considered non-intended use. In particular, the following are considered non-intended use:

- Use as a climbing aid.
- Lifting people or animals.
- Storing loads while picked up.
- Picking up building components, equipment or supporting surfaces.
- Picking up liquids or bulk materials (e.g. granulate).
- Evacuating objects that are in danger of imploding.
- Attachment of loads using ropes, chains or similar

2.3 Danger Zone

2.3.1 Manual Handling

The lifting device is operated by two operators. The operators stand between the operator handles.

The area under the suction plates must be considered a danger zone.

2.3.2 Handling with a Transport Device

Persons in the danger zone of the lifting device may suffer life-threatening injuries.

- Ensure that no unauthorized persons are present in the danger zone.
- Ensure that collisions with the surrounding environment and objects are avoided to prevent the load from breaking off.

The danger zone of the lifting device includes the following areas:

- The area directly below the lifting device and load.
- The area immediately surrounding the lifting device and load.
- The working area of the transport device used.

2.4 Hazards during Operation



⚠ CAUTION

Sharp objects

Damage to vacuum hoses from sharp objects

- ▶ Always ensure that vacuum hoses cannot be damaged by sharp objects.

2.5 Environmental and Operating Conditions

The lifting device must *not* be operated under the following conditions:

- Use in potentially explosive atmospheres.
- In environments with acidic or alkaline media.
- Over 1600 m above sea level (the required operating vacuum cannot be achieved).



⚠ CAUTION

Dangerous gases, vapors or dusts are sucked in and dispersed by the vacuum generator.

Difficulty breathing.

- ▶ Before commencing work, ensure that the ambient air does not contain any hazardous substances.
- ▶ Make sure that there are no hazardous substances on or in the load that can be sucked in.



⚠ CAUTION

Blockage of the vacuum system from sucking in liquids

Risk of injury from falling load!

- ▶ Do not pick up liquids or bulk materials.
- ▶ Observe the gauge.



⚠ CAUTION

Danger due to lightning strikes during a storm.

- ▶ Stop work if necessary based on the severity of the storm.

The lifting device may only be operated under the following conditions:

- Operation is permissible only at temperatures between 3° C and +40° C (37.5 °F and 104 °F).
- The environment must be free from humidity, moisture, dirt, dust, oil or other climatic conditions that may reduce friction levels.
- The lifting device must be sufficiently dimensioned for the loads to be lifted.
- ▶ If in doubt, consult Probst before the start of operations.

2.6 Workplace Requirements

The following requirements must be fulfilled to ensure a safe workplace.

- The operator is obligated to perform a risk assessment for the environmental conditions at the installation location.
- The type plate and warning signs must be legible.
- The operator must have a clear view of the whole working area, the workplace must be adequately lit and free of glare, and the area around the workplace must be clean and clear.

2.7 Personnel Qualifications

Unqualified personnel cannot recognize dangers and are therefore exposed to higher risks!

The operating company must ensure the following points:

- The personnel must be commissioned for the activities described in these operating instructions.
- The staff must be at least 18 years of age and physically and mentally capable.
- The product may only be operated by persons who have undergone appropriate training.
- Personnel must receive regular safety briefings (frequency as per country-specific regulations).
- Work on electrical equipment must be carried out only by qualified electrical specialists.
- Installation, maintenance, and repairs must be carried out by specialists from Probst GmbH or by persons who can prove that they have undergone appropriate training at Probst.

The following target groups are addressed in these operating instructions:

- Persons trained in operating and cleaning the product.
- Mechanical and electrical specialists who are responsible for installing, troubleshooting and maintaining the product.

The company operating the crane system must comply with country-specific regulations regarding the age, ability and training of the personnel.

Valid for Germany:

A qualified employee is defined as an employee who has received technical training and has the knowledge and experience – including knowledge of applicable regulations – necessary to enable him or her to recognize possible dangers and implement the appropriate safety measures while performing tasks. Qualified personnel must observe the pertinent industry-specific rules and regulations.

2.8 Personal Protective Equipment

To avoid injury, always use appropriate protective equipment that is suitable for the situation. The protective equipment must meet the following standards:

- Protective work shoes in safety class S1 or higher
- Sturdy work gloves in safety category 2133 or higher
- Industrial helmet
- Ear protection class L or higher
- Eye protection class F
- Hair net
- Closely fitting clothing

2.9 Safety Features

The lifting device has the following safety features:

- Gauge: shows the current pressure in the vacuum reservoir.
- Lock on the control lever (8.2) release load: Prevents the load from being unintentionally released.
- Option: Load securing chain
- ▶ Before each start of operations, ensure that the safety features are in perfect condition ((> See ch. Inspecting safety features)).

2.10 Technical Condition

If the product is operated while in a defective state, safety and function will be impaired.

- Only operate the lifting device when in perfect working order as originally delivered.
- Follow the maintenance schedule.
- Use only original spare parts from Probst.
- If the operating behavior changes, check the lifting device for faults. Rectify faults immediately!
- Do not independently modify or alter the lifting device.
- Safety features must not be disabled under any circumstances.

Probst assumes no liability for consequences of modifications over which it has no control.

2.11 Responsibility of the Operating Company

The operating company is also responsible for third parties in the working area of the lifting device. The operating company must ensure that they have the appropriate qualifications and skills.

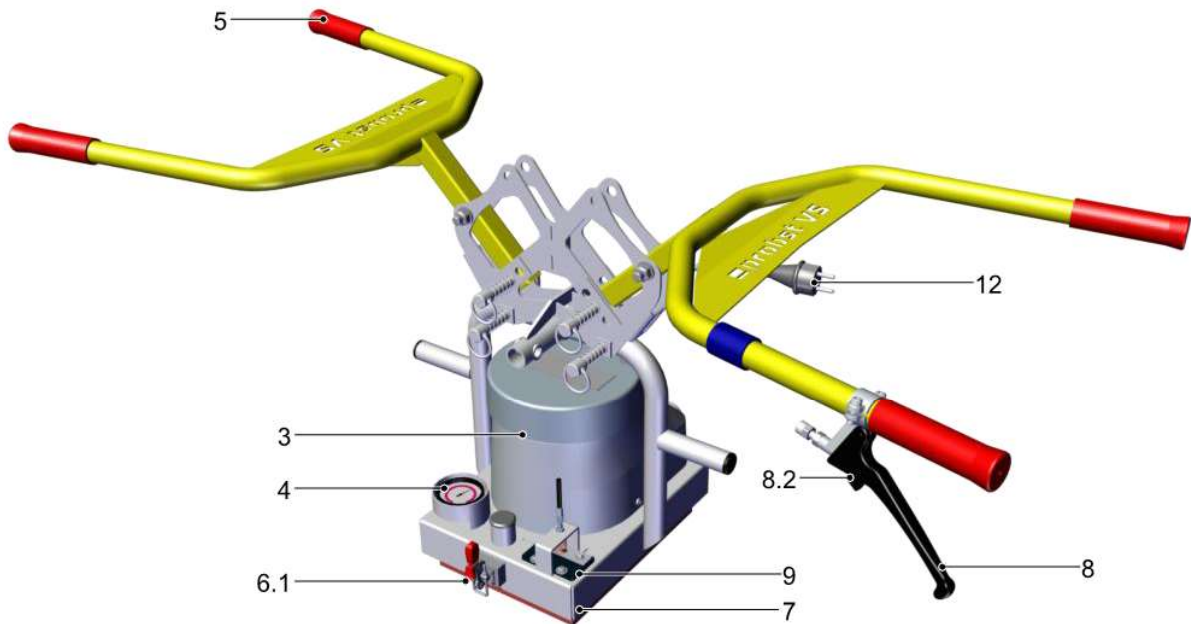
- Ensure that regular breaks are taken.
- Ensure that the lifting device cannot be started up by unauthorized persons.
- During maintenance or repair work, ensure that the lifting device cannot be operated.
- Clearly define the responsibilities for the various activities performed with the lifting device.
- Ensure that these responsibilities are observed.
- When handling unfamiliar loads, carry out tests where necessary to ensure safe operation:
 - The load is sufficiently rigid that it cannot be damaged during handling.

2.12 Country-Specific Regulations for the Operating Company

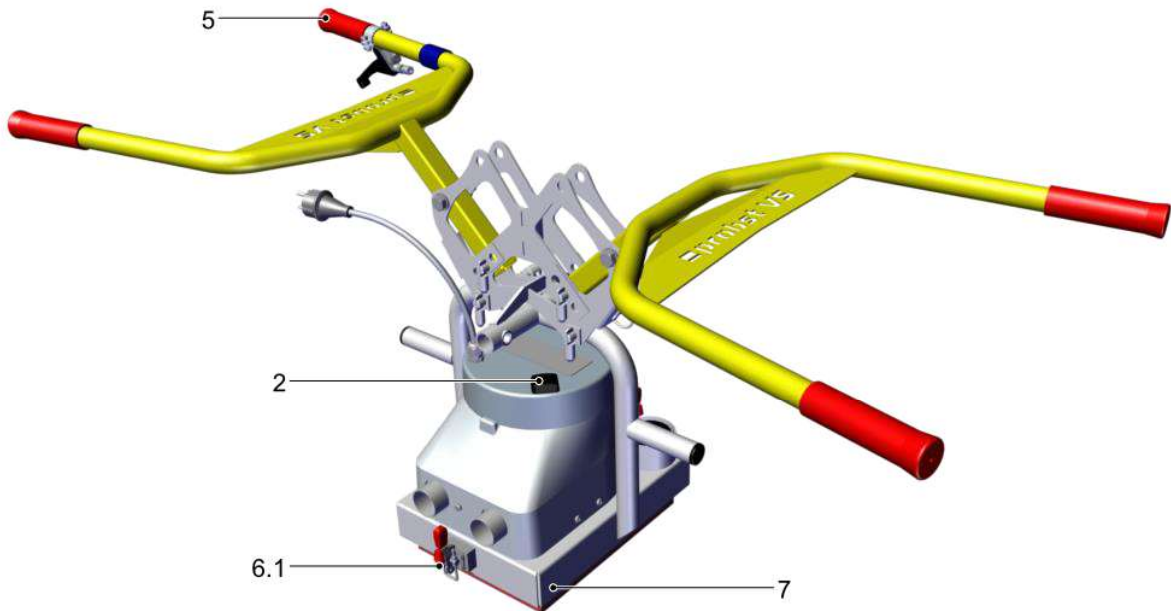
- Observe the country-specific regulations regarding accident prevention, safety testing and environmental protection.
- Do not use the lifting device until it has been ensured that the hoist (crane, chain hoist etc.) in which it is installed complies with the country-specific regulations and safety provisions.

3 Product description

3.1 Components



3	Vacuum blower	4	Vacuum gauge
5	Operator handle	6.1	Quick-release clamp for fastening the suction plate
7	Main body	8	“Release load” control lever
8.2	Control lever lock	9	Venting flap
12	Mains supply		



2	Main switch	5	Operator handle
6.1	Quick-release clamp for fastening the suction plate	7	Main body

3.2 Operating Elements

- The main switch (2) is used to switch the vacuum generator on and off.
- The control lever (8) is used to release the load. The control lever can only be pulled with the lock (8.2) is pressed down.

3.3 Vacuum Generator

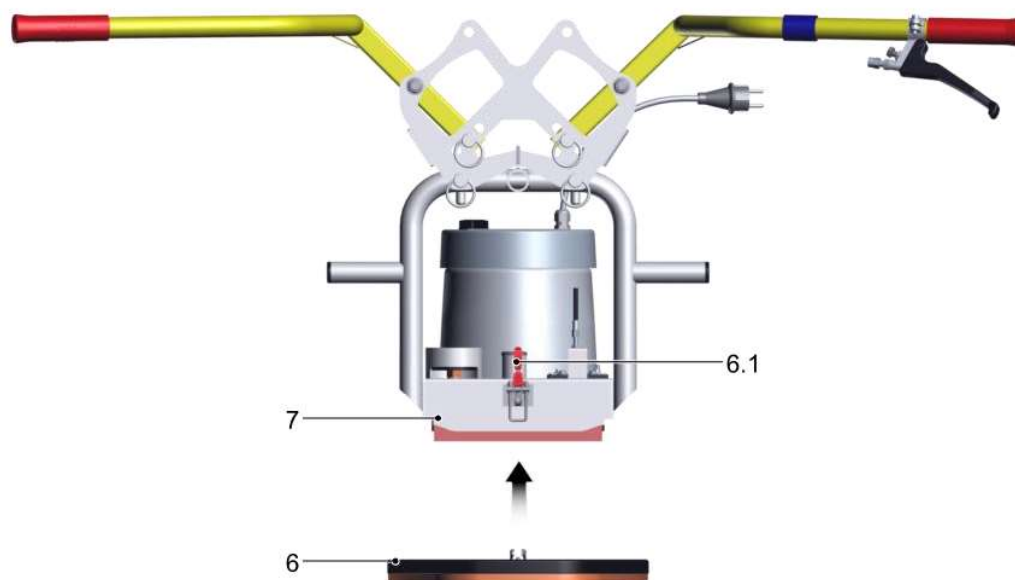
The vacuum is generated by an electrical vacuum blower (3). The vacuum generator is designed for airtight loads.

3.4 Suction Plates

The suction plate is not included in the scope of delivery. It is used to pick up the load. The suction plate to be used depends on the load (weight, geometry and surface properties).

Use only suction plates from the manufacturer Probst with carrying capacity labels that indicate without a doubt a maximum carrying capacity at a vacuum of -0,2 bar. If the situation is unclear, the lifting device and suction plate may not be put into operation. Contact Probst GmbH.

Standard suction plates are not suitable for handling glass sheets.



The suction plate (6) must be attached to the main body (7) with the quick-release clamps (6.1).



The maximum permitted lift capacity of the suction plate determines the maximum permitted lifting capacity of the entire lifting device (see the lift capacity plate on the suction plate).

4 Technical Data

Model	VS-140/200 with suction plate (5270.0015)	VS-140/200 with suction plate (5270.0017) (5270.0019)	VS-140/200-XL with suction plate, suspension eye and chain box (5270.0016)	VS-140/200-XL with suction plate, suspension eye and chain box (5270.0018) (5270.0020)
Power supply	230 V 50 Hz	115 V 60 Hz	230 V 50 Hz	115 V 60 Hz
Power consumption	1.5 kW			
Max. lift capacity	Manual operation: 140 kg Operation with transport device: 200 kg			
Device weight	~ 20 kg	~ 20 kg	~ 25 kg	~ 25 kg
Temperature range	+3 to +40° C			
Noise (DIN 45 635)	<78 dB(A)			
Suction plate dimensions	Variable, up to 850 x 340 mm			



The maximum permitted lift capacity of the suction plate determines the maximum permitted lifting capacity of the entire lifting device (see the lift capacity plate on the suction plate).

Requirements for achieving the maximum lift capacity:

- The lift capacities are based on a vacuum of -0.2 bar.
- The load is airtight.

5 Transport and storage

5.1 Protective Equipment

- ▶ The following protective equipment is required for handling purposes:
 - Protective work shoes
 - Sturdy work gloves

5.2 Checking the Delivery

The scope of delivery can be found in the order confirmation. The weights and dimensions are listed in the delivery notes.

1. Compare the entire delivery with the supplied delivery notes to make sure nothing is missing.
2. Damage caused by defective packaging or occurring in transit must be reported immediately to the carrier and Probst.

5.3 Removing the Packaging

The device is supplied shrink wrapped on a pallet.



NOTE

Sharp knives or blades

Damage to components!

- ▶ Ensure that no components are damaged while opening the packaging.

1. Remove labeled transport aids and securing devices.
2. Open and remove the shrink wrap.
3. Dispose of the packaging material in accordance with the applicable national laws and guidelines.

5.4 Transporting the Lifting Device



WARNING

Falling objects during handling of the components

Serious injury or death!

- ▶ Ensure the lifting aids and slings used have the necessary specifications.
- ▶ Ensure that any personnel involved in transporting with lifting devices or industrial trucks are authorized and qualified to do so.
- ▶ Secure the components according to national regulations before every handling operation.



WARNING

Falling objects due to improper transport

Risk of injuries and damage to property!

- ▶ Ensure that no one is in the danger zone.

5.5 Storing the lifting device

If the lifting device is not used for an extended period, it must be stored correctly to protect it from damage. Options for correct storage:

- Let the lifting device hang close to the ground.
- Detach the lifting device and place it in storage.



NOTE

Damage to suction plates due to inappropriate storage position!

- ▶ Do not set the lifting device down on the suction plates.

-
- ▶ Store the lifting device so that it is protected from the weather.

6 Installation

6.1 Safety

6.1.1 Safety Instructions for Installation

The lifting device must be installed and maintained only by qualified specialist electricians and mechanics.



WARNING

Improper assembly

Serious injury or death!

- ▶ Carry out mounting and removal only when the device is in an idle, depressurized state.
- ▶ Ensure that the lift capacity of the hoist (crane, chain hoist, lifting tackle, etc.) is at least equal to the sum of the lifting device's weight and lift capacity.
- ▶ Ensure that the hoist is in perfect working order.
- ▶ Only hang the lifting device from the suspension eye.

6.1.2 Protective Equipment

- ▶ The following protective equipment is required for handling purposes:
 - Protective work shoes
 - Sturdy work gloves

6.2 Start of Operations

1. Check that all screws are securely fastened.
 2. Check the vacuum system for leaks **Checking the Lifting Device for Leaks**
 3. Check all functions of the lifting device.
 4. Perform several lifting tests with one load.
- ⇒ Installation is finished once the lifting tests have been performed successfully.



The checks required in Europe before the start of operations in accordance with EN 13155 are covered by a type test.

7 Operation

7.1 Safety

7.1.1 Safety Instructions for Operation



⚠ DANGER

Falling objects while handling above 1.8 m

Serious injury or death!

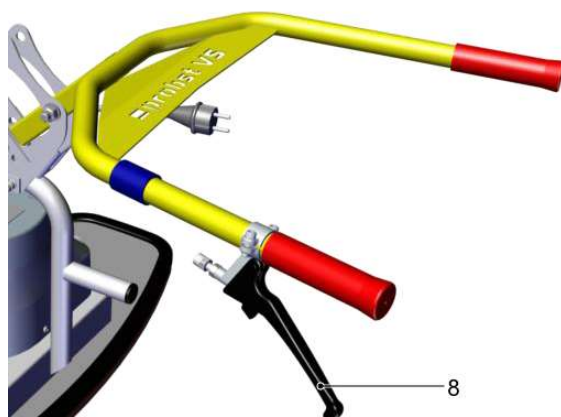
- ▶ While handling loads with a swiveling point that is above 1.8 m, cordon off the working area.
- ▶ Wear an industrial helmet.



⚠ WARNING

Severe injury or death due to falling objects.

- ▶ Always attach the load securing chain(s) before handling a load with suction applied.
- ▶ Always attach the load securing chain so that it is taut.
- ▶ Before each handling operation, make sure that no people are in the danger zone.
- ▶ Never transport loads above people.
- ▶ Observe the maximum lift capacity (see the type plate and lift capacity sticker on the suction plate).
- ▶ Ensure that the maximum permissible load of the lifting device is at least as great as the weight of the lifting device with the suction plate and the permitted lift capacity of the lifting device.
- ▶ Make sure there are no loose objects on the load.
- ▶ Do not store loads in a suspended position.



⚠ WARNING

When the control lever is pulled, the load falls immediately.

Risk of injury!

- ▶ Only pull the control lever (8) when the load has been set down safely.



⚠ CAUTION

The surface of the load is dusty, dirty, oily, damp or icy.

Risk of injury from falling load!

- ▶ Before any handling, ensure that the surface of the load is clean, dry and free of ice.

- ✓ The main switch is set to 1 during the entire handling process.
- 1. When handling with a transport device, do not release the operator handle.
- 2. Keep an eye on the gauge.

7.1.2 Personnel Qualifications

The lifting device may only be used by operators who meet the following requirements:

- The operator is at least 18 years of age.
- The operator is physically and mentally capable and can be expected to reliably perform the tasks assigned.
- The operator has been instructed in the operation of the lifting device and has read and understood the operating instructions.

7.1.3 Protective Equipment

- ▶ The following protective equipment is required to operate the device:
 - Industrial helmet
 - Protective work shoes
 - Working gloves sturdy enough for the load
 - Closely fitting clothing
 - A hairnet, if necessary.



⚠ CAUTION

High noise level due to leaks between load and suction pad

Hearing damage!

- ▶ Measure the noise level with typical loads.
- ▶ Depending on the load surface, noise levels may occur that require hearing protection.

7.1.4 Using the Lifting Device Properly

Improper use of the lifting device can endanger the operator and damage the product.

- Handle loads only in the horizontal direction.
- The lifting process must not be assisted using external means.
- Use the operator handle only to guide the lifting device; avoid swiveling or tilting movements with the operator handle.
- Do not lift, drag or pull loads at an angle.
- Do not use the lifting device to free stuck loads.

- Never handle a load with more than one lifting device.



Always guide and handle the lifting device at an ergonomic working height.

7.1.5 What to Do in an Emergency



CAUTION

Risk of injury due to emergency situation!

- ▶ Immediately inform all persons in the vicinity of the danger zone.
 - ▶ Do not enter the danger zone.
 - ▶ If possible, set down the load safely.
-

The following situations constitute an emergency:

- Vacuum generation fails, e.g. due to power failure.
- Leakage occurs, e.g. due to a detached hose.
- A collision occurs.
- During handling, the vacuum falls into the red section of the gauge:
 - Vacuum falls below -0.2 bar
- ▶ If the load securing chain is strained due to a falling load, have the load securing chain inspected professionally and replace if necessary.

Damaged load securing chains may not be used.

7.2 Checks before Starting Work

1. Ensure that the energy supply is operating reliably.
2. Inspect safety features.
3. Check device functions.

7.3 Handling moist loads

The lifting device is not intended for and not suitable for lifting moist loads.



NOTE

Risk of vacuum pump failure due to moisture.

- ▶ Before attaching to the load, remove water from the suction area.
 - ▶ Before switching on the vacuum generator when the venting flap is open (pull and hold the control lever (8)), let it run for at least 1 minute.
-

7.4 Attaching the Suction Plate

The suction plate is not included in the scope of delivery.

The operator is responsible for attaching the suction plate based on the load characteristics (surface, air-tightness, weight).



The maximum permitted lift capacity of the suction plate determines the maximum permitted lifting capacity of the entire lifting device (see the lift capacity plate on the suction plate).

The operator is required to document the static strength and holding force depending on the potential vacuum and to adhere to safety factors. The standard DIN EN 13155 in its current valid version should be used as the basis during mounting.

Probst GmbH accepts no liability for damages resulting from use of an unsuitable suction plate.



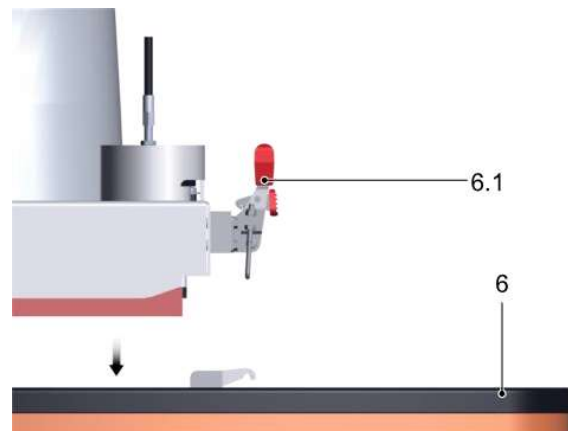
WARNING

Unexpected switching on when attaching the suction plate

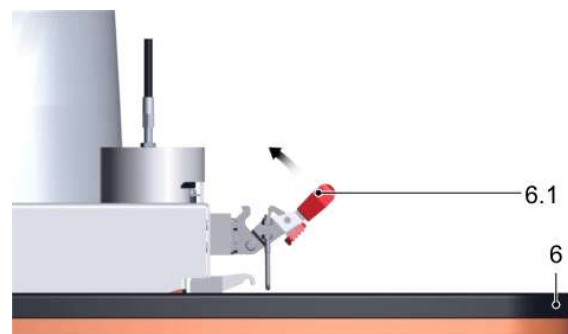
Danger of injury due to vacuum.

- ▶ Ensure that the vacuum generator cannot be switched on while the suction plates are being mounted.

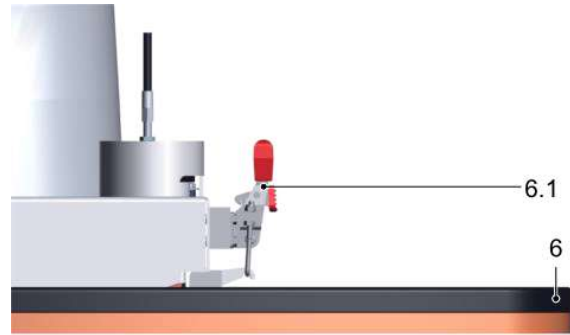
1. Place the lifting device on the suction plate (6).



2. Lock both levers (6.1).



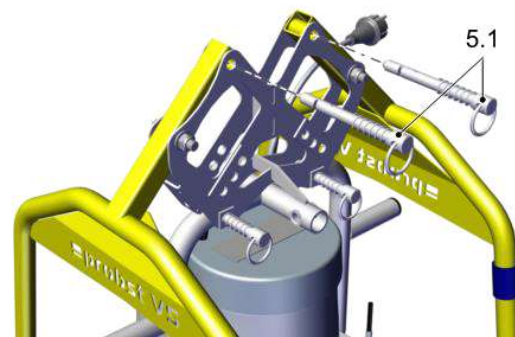
3. Ensure that the suction plate is securely attached (see Fig.).



7.5 Bringing the Operator Handle into the Working Position

Bring the operator handle into working position by moving the socket pins.

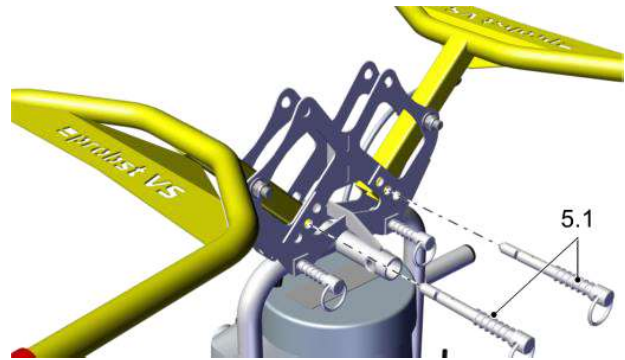
1. Remove both socket pins (5.1).



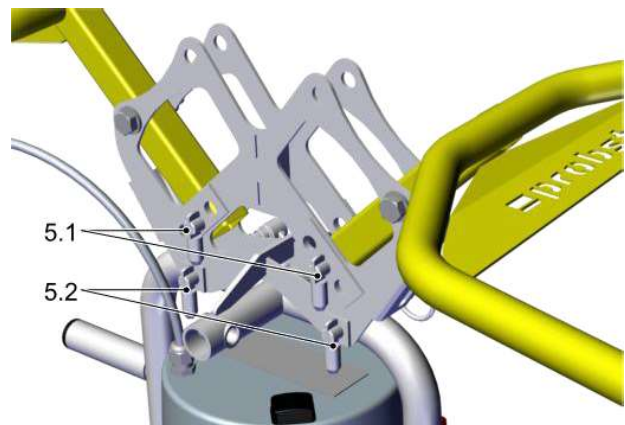
2. Move the operator handle (5) into the working position.



3. Insert the (5.1) socket pins again.

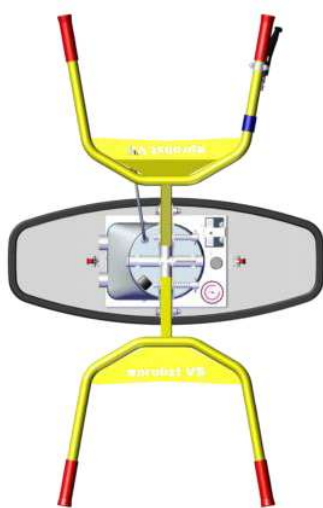


4. Ensure that the socket pins (5.1) are securely locked.



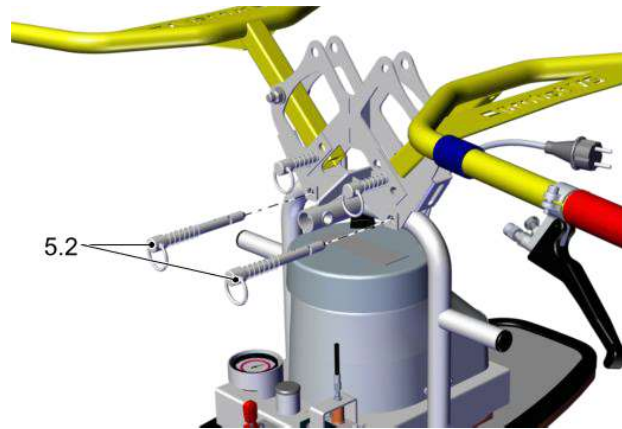
7.6 Rotating the Operator Handle by 90°

If necessary, the operator handle can be rotated by 90°.

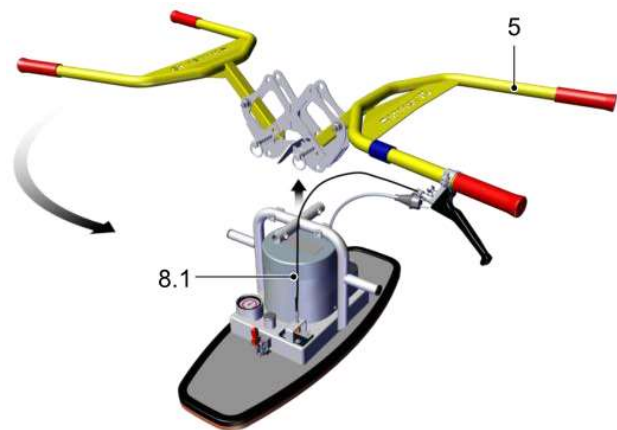


1. Set down the lifting device so that it cannot tip over or slip off.

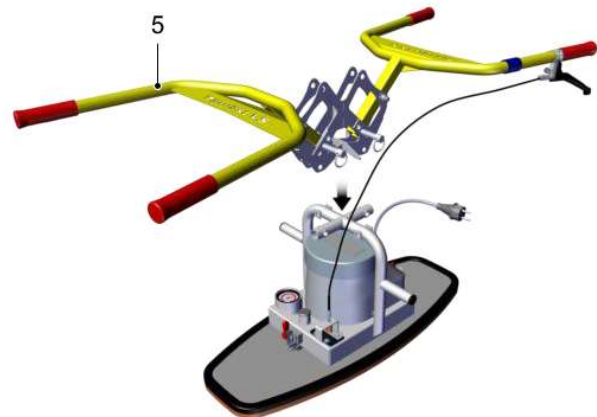
2. Remove both socket pins (5.2).



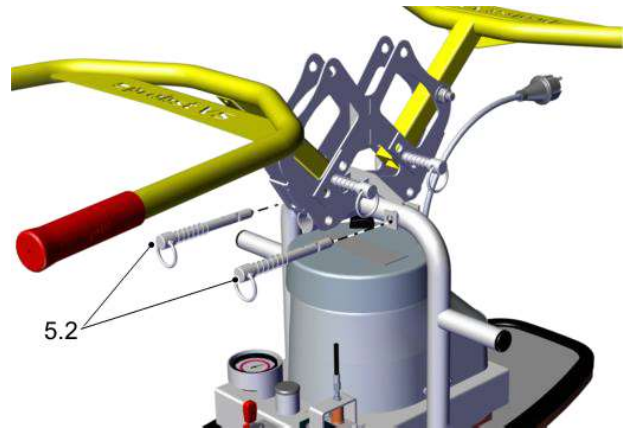
3. Lift the operator handle (5) and rotate it by 90°. Be sure not to damage the bowden cable (8.1) when rotating the handle.



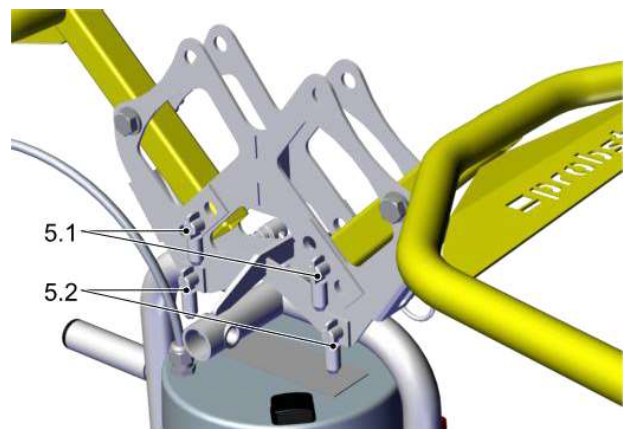
4. Place the operator handle onto the main body.



5. Insert both socket pins (5.2).

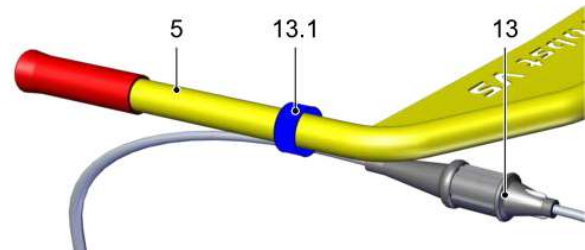


6. Ensure that the socket pins (5.2) are securely locked.



7.7 Switching on the Lifting Device

1. Connect the mains plug (13) to the power supply with a suitable cable (not included in delivery).
2. Attach the cable to the operator handle (5) with the Velcro strap (13.1).
3. Ensure that the mains plug (13) cannot accidentally be unplugged.
4. Set the main switch (2) to 1.

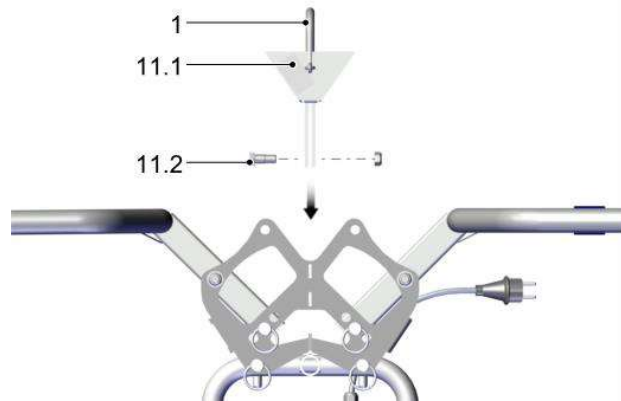




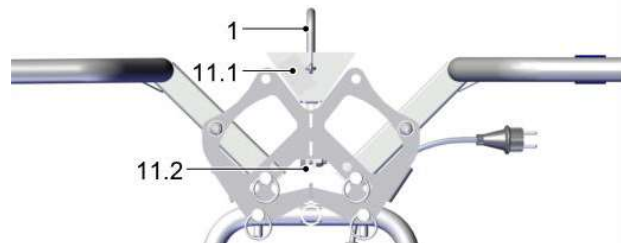
- Do not place the lifting device with a running vacuum generator on an airtight surface.
- Switch off the vacuum generator when taking a break of more than two minutes.

7.8 Attaching the Chain Box with a Suspension Eye (Optional)

1. Place the chain box on the main body (11.1) with a suspension eye.



2. Tighten the screw (11.2).



3. Attach the lifting device to the transport device with the suspension eye (1).

7.9 Raising the Load



WARNING

Falling objects due to insufficient vacuum

Serious injury or death!

- ▶ Before lifting the load, ensure that the working vacuum of -0,2 bar has been attained.

- The ratio of lifting time to ventilation time (releasing) must be 2/3 to 1/3.
- Maximum lifting time: 2 minutes, followed by 1 minute of free suction.

7.9.1 Manual Handling

The lifting device must be lifted by two operators using two operator handles.



⚠ CAUTION

Slippery surface or obstacles

Risk of injury due to slipping or tripping

- ▶ Before handling, ensure that the operators cannot slip or trip.

1. Position the lifting device over the load's center of gravity.
2. Carefully lower the lifting device onto the load.
 - ⇒ Suction is applied to the load.
3. Ensure that the entire area of the suction plate(s) is touching the load.
4. Before lifting, ensure that the load is free and not stuck, tilted or caught.
5. Once the gauge shows the minimum vacuum (-0,2 bar), carefully lift the load.

7.9.2 Handling with a Transport Device (Optional Suspension Eye with Chain Box)



⚠ WARNING

Risk of load falling when attaching the load securing chain

Risk of crushing.

- ▶ Do not reach underneath the load when attaching the load securing chain.



⚠ WARNING

Traveling quickly over uneven surfaces

Severe injury due to falling loads.

- ▶ Only travel at walking speed when the load is lifted.
- ▶ Avoid shocks or jerking the unit during transport.



⚠ CAUTION

Risk of injury due to collision!

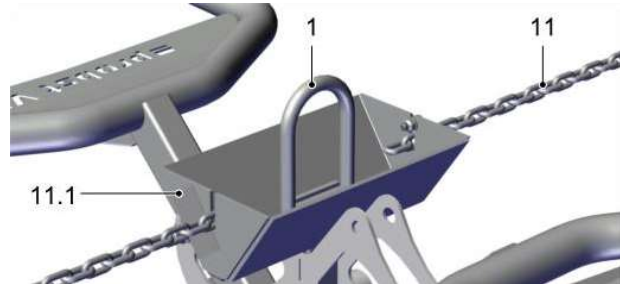
- ▶ Walk behind the lifting device in the direction of travel while maintaining the prescribed safe distances.

1. Once the gauge shows the minimum vacuum (-0,2 bar), carefully lift the load (if using, operate the lifting

aid in low gear).

2. Compensate for any swinging motion using the operator handle.
3. Immediately after lifting the load (e.g. from a pallet or out of a truck), lower the load until it is just over the floor (approx. 20 to 30 cm).

4. Secure the load securing chain (11) on the chain box (11.1).



⇒ The load securing chain must hold the load tightly.

5. Stow the ends of the chain in the chain box so that it does not interfere with handling.

- ⇒ The load can now be transported close to the ground (around 50 cm above the ground).
- guide the lifting device with the operator handle.
 - Never transport loads above people.
 - Do not operate unless you have a clear view of the whole working area.
 - Keep the lifting device as close to the floor as possible.

7.10 Setting Down the Load



⚠ CAUTION

Slipping or tilting of the load when set down

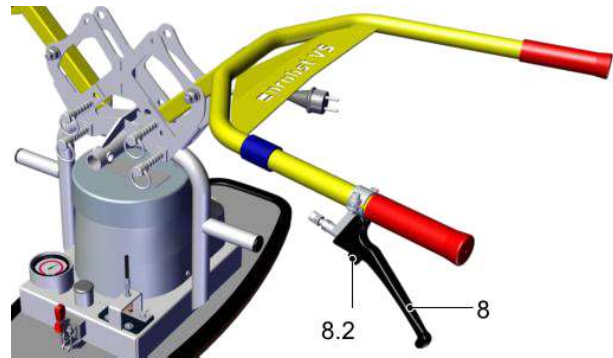
Risk of injury!

- ▶ Before releasing the load, ensure that it cannot slip or tilt.

7.10.1 Manual Handling

1. Carefully set down the lifting device with the load.
2. Before releasing the load, ensure that it cannot slip or tilt.

3. Press the lock (8.2) and carefully pull the control lever (8).



⇒ The load is released.

7.10.2 Handling with a Transport Device (Optional Suspension Eye with Chain Box)



WARNING

Risk of load falling when removing the load securing chain

Risk of crushing.

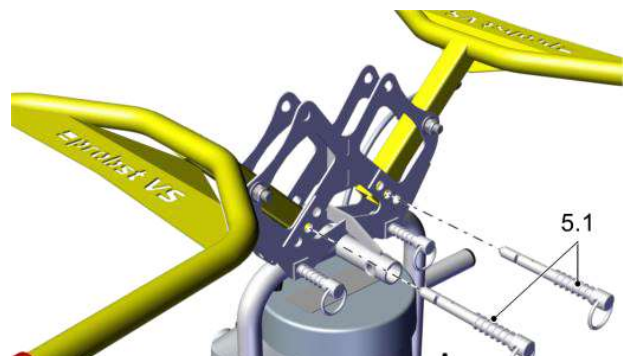
- ▶ Do not reach underneath the load when removing the load securing chain.

1. Carefully lower the load until it is just above the floor (approx. 20 to 30 cm).
2. Detach the load securing chain (11) and stow it in the chain case (11.1).
3. Set down the load fully.
4. Ensure that the load can not slide or tip over.

7.11 Bringing the Operator Handle into the Parking Position

Bring the operator handle into parking position by moving the socket pins.

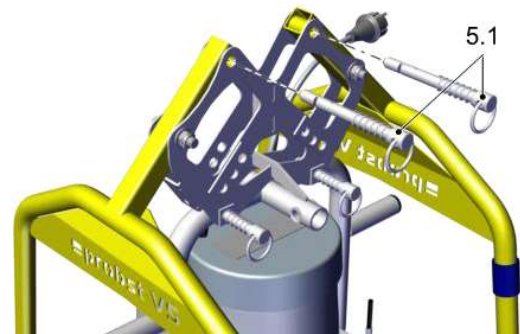
1. Pull out both socket pins (5.1).



2. Move the operator handle (5) into the parking position.



3. Insert the (5.1) socket pins again.



4. Ensure that the socket pins are securely locked.



⇒ The lifting device can now be stored without damaging the suction plate.

8 Troubleshooting

8.1 Safety

8.1.1 Safety Instructions for Troubleshooting

Faults in the lifting device may only be repaired by qualified mechanics and electricians.

Personnel must have read and understood the operating instructions.



DANGER

Electric shock from touching live components

Serious injury or death!

- ▶ Make sure that the electrical components are not live before installation, maintenance and troubleshooting.
- ▶ Disconnect mains plug.



WARNING

Risk of injury due to vacuum!

- ▶ Switch the vacuum generator off before performing troubleshooting or maintenance work.
- ▶ Make sure that there is no stored residual vacuum remaining in the vacuum circuit.



WARNING

Risk of injury due to incorrect maintenance or troubleshooting

- ▶ Check the proper functioning of the product, especially the safety features, after every maintenance or troubleshooting operation.

8.1.2 Protective Equipment

- ▶ The following protective equipment is required for installation, troubleshooting and maintenance work:
 - Protective work shoes
 - Sturdy work gloves

8.2 Troubleshooting

- ▶ If the load cannot be lifted, work through the following list to identify and rectify the fault:

Malfunction	Cause	Solution
Vacuum generator functioning, but the load is not picked up.	The suction plate is not completely covered by the load. Air is leaking in.	▶ Position the lifting device on the load so that the suction plate is completely covered by the load.
	The filter screen is dirty.	▶ Clean the filter screen.
	Hose or screw unions are leaking.	▶ Replace or seal components.
Minimum vacuum -0,2 bar is not reached.	Sealing lip on suction plate is damaged.	▶ Replace suction plate.
	Load has cracks, gaps or is porous.	The load cannot be handled with this lifting device.
	Gauge is faulty.	▶ Replace the gauge.
	Hose or screw unions are leaking.	▶ Seal or replace components.
	Location of use is higher than 1600 m above sea level.	▶ Observe the maximum altitude for location of use.
Vacuum generation is not working.	The main switch is set to OFF.	▶ Set the main switch to ON.
	The electrical connection is defective.	1. Check and repair the connection. 2. Check the power supply line.
	Temperature monitoring has been triggered.	▶ Allow the vacuum generator to cool down.
	Power consumption is elevated.	1. Clean the filter screen. 2. Check the motor for faults.
	The vacuum generator is faulty.	▶ Check the vacuum generator and contact Probst service if necessary.

9 Maintenance

9.1 Safety

9.1.1 Safety Instructions for Maintenance

Faults in the lifting device may only be repaired by qualified mechanics and electricians.

Personnel must have read and understood the operating instructions.



DANGER

Electric shock from touching live components

Serious injury or death!

- ▶ Make sure that the electrical components are not live before installation, maintenance and troubleshooting.
- ▶ Disconnect mains plug.



WARNING

Risk of injury due to vacuum!

- ▶ Switch the vacuum generator off before performing troubleshooting or maintenance work.
- ▶ Make sure that there is no stored residual vacuum remaining in the vacuum circuit.



WARNING

Risk of injury due to incorrect maintenance or troubleshooting

- ▶ Check the proper functioning of the product, especially the safety features, after every maintenance or troubleshooting operation.

9.1.2 Protective Equipment

- ▶ The following protective equipment is required for installation, troubleshooting and maintenance work:
 - Protective work shoes
 - Sturdy work gloves

9.2 Regular Inspections

- Observe the applicable country-specific regulations.
- Comply with country-specific inspection dates.
- Release the lifting device for operation only after approval by the relevant authority.

Inspection label with the last and next inspection date



- The inspector cannot attach the inspection label unless the inspection has been performed successfully.

9.3 Maintenance Schedule



Probst stipulates the following checks and check intervals. The operator must comply with the legal regulations and safety regulations applicable at the location of use. These intervals apply to single-shift operation. For heavier use, such as multi-shift operation, the intervals must be shortened accordingly.

Maintenance task	Daily	Weekly	Monthly	Every six months	Yearly
Check the condition of load securing chain and the suspension hook.	X				X
Check safety features: <ul style="list-style-type: none"> • Gauge • Control lever lock "Release load" 	X				X
Check and clean the sealing lips of the suction plates, replace if worn.		X			X
Clean filter screen and replace, if necessary		X			X
Check the vacuum circuit for leaks.			X		X
Check all load-bearing parts (e.g. suspension) for deformation, wear or other damage.					X
Check the legibility of the type and lift capacity plates. Clean if necessary.					X
Check the legibility of the warning signs. Clean if necessary.					X
Is the test label up to date?					X
Check the general condition of the lifting device.					X
The operating instructions are available, legible, and can be accessed by personnel.					X
Check the electrical installation and cable screw unions.					X

9.4 Checking the Lifting Device for Leaks

Check the lifting device for leaks once a month.

1. Switch on the vacuum generator.

2. Place the lifting device on a load with a smooth, airtight surface, e.g. a metal sheet.
3. Apply suction to the load.

If this vacuum is not reached, check the following:

1. Check the status of the sealing lip and the screw connections.
2. Clean the dust filter with a brush.

9.5 Cleaning the Dust Filter



DANGER

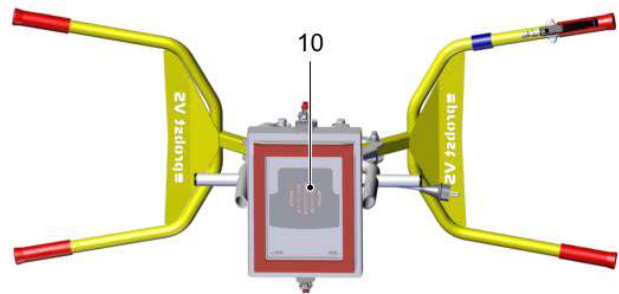
Falling load.

Serious injury or death!

- ▶ Depending on the dust load, clean the dust filter at least once a week.

1. Switch off the vacuum generator.
2. Carefully tilt the lifting device onto its side.

3. Clean the dust filter (10) with a brush.



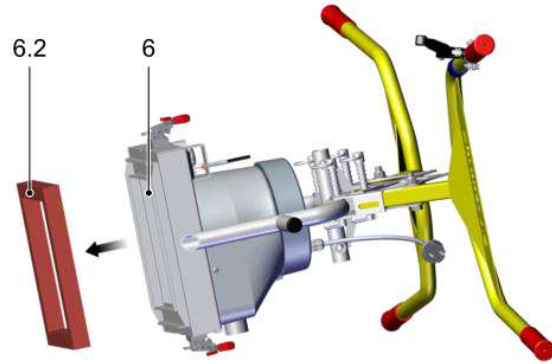
9.6 Cleaning the lifting device

The lifting device must only be cleaned with an agent containing active tensides (pH-neutral).

9.7 Replacing Sealing Lip

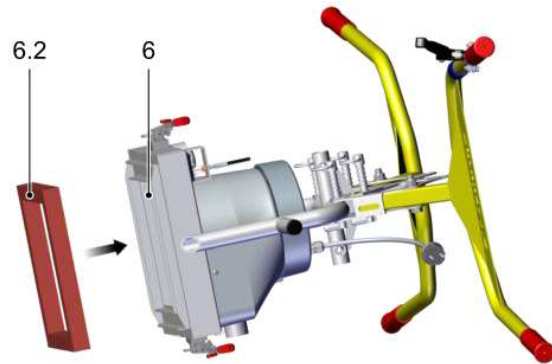
1. Carefully tilt the lifting device onto its side.

2. Remove the sealing lip (6.2) from the suction plate (6).



3. Remove the protective film from the new sealing lip.

4. Press the new sealing lip (6.2) into the suction plate.



⇒ The lifting device is ready for operation.

10 Decommissioning and recycling

10.1 Safety

The lifting device may only be decommissioned and prepared for disposal by qualified specialists.

10.2 Decommissioning the Lifting Device

1. Set the main switch to 0.
2. Park the lifting device securely.
3. If the lifting device is defective, clearly indicate this on the device.
4. Remove the suction plate.
5. If necessary, place a protection cover over the suction plate.
6. Store the lifting device so that it cannot be damaged and protect against unauthorized use.

10.3 Disposing of the Lifting Device

1. Decommission the lifting device.
2. Detach and dispose of the suction plate.
3. Detach and dispose of the vacuum generator.
4. Detach and dispose of the main body.



For proper disposal, please contact a company specializing in the disposal of technical goods and instruct the company to observe the applicable disposal and environmental regulations. Probst is happy to assist you in finding a suitable company.

EC-Declaration of Conformity / UKCA-Declaration of Conformity

Manufacturer: Probst GmbH
Gottlieb-Daimler-Straße 6
71729 Erdmannhausen, Germany
info@probst-handling.de
www.probst-handling.com



Importer: Probst Ltd
Unit 2 Fletcher House
Stafford Park 17
Telford Shropshire TF3 3DG, United Kingdom
www.probst-handling.co.uk
sales@probst-handling.co.uk



The machine described above complies with the relevant requirements of the following EU directives:
The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

EC-machinery directive 2006/42/EC (Reference: OJ L 157, 09.06.2006)

UK-Regulation: Supply of Machinery (Safety) Regulations 2008 (SI 2008 No. 1597)

The following standards and technical specifications were used:

DIN EN ISO 12100

Safety of machinery - General principles for design - Risk assessment and risk reduction

UK-Regulation: BS EN ISO 12100-1:2003+A1:2009

DIN EN ISO 13857

Safety of machinery - safety distances to prevent hazard zones being reached by upper and lower limbs.

UK-Regulation: BS EN ISO 13857:2019

2014/30/EU (Electromagnetic compatibility) / (Reference: OJ L 96, 29.03.2014)

UK-Regulation: Electromagnetic Compatibility Regulations 2016 (SI 2016 No. 1091)

DIN EN 60204-1 (IEC 60204-1)

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

UK-Regulation: BS EN 60204-1:2018

DIN EN 1012-1 / DIN EN 1012-2

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

UK-Regulation: BS EN 1012-1:2010


Authorized person for EC-documentation:

Name: Jean Holderied
Address: Probst GmbH; Gottlieb-Daimler-Straße 6; 71729 Erdmannhausen, Germany

Authorized person for UK-documentation:

Name: Nigel Hughes
Address: Probst Ltd ; Unit 2 Fletcher House; Stafford Park 17; Telford Shropshire TF3 3DG, United Kingdom

Signature, information to the subscriber:

Erdmannhausen, 02.08.2021.....
(Eric Wilhelm, Managing director)

Proof of maintenance

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⁾.

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

Operator: -----

Device type: -----

Article -No.: -----

Device-No.: -----

Year of make: -----

First inspection after 25 operating hours

Date:	Maintenance work:	Inspection by company:
		Company stamp
	
		Name Signature

All 50 operating hours

Date:	Maintenance work:	Inspection by company:
		Company stamp
	
		Name Signature
		Company stamp
	
		Name Signature
		Company stamp
	
		Name Signature

Minimum 1x per year

Date:	Maintenance work:	Inspection by company:
		Company stamp
	
		Name Signature
		Company stamp
	
		Name Signature

GB

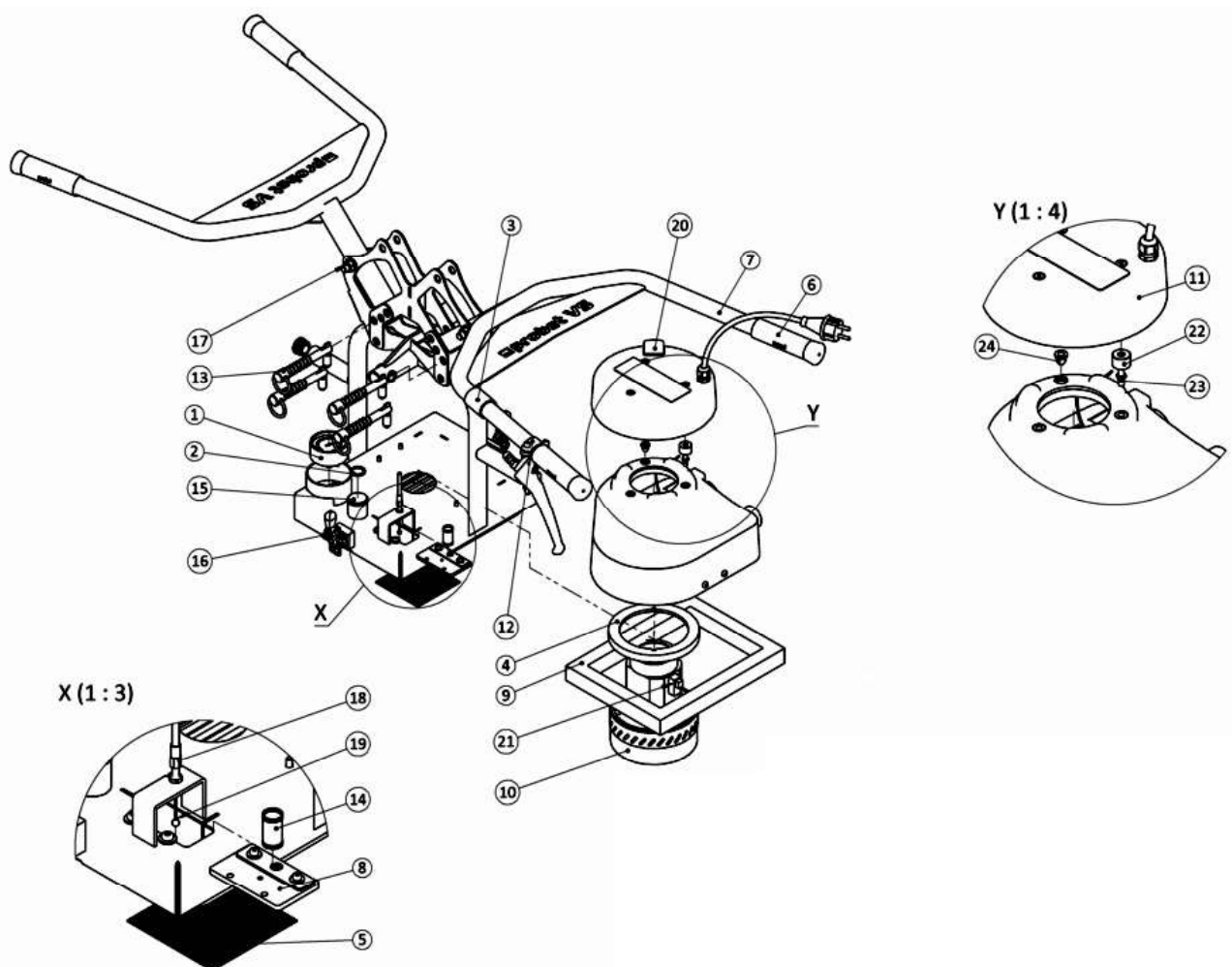
Speedy VS-140/200 (230V / 110V) 52700015 / 52700019

Speedy VS-140/200-XL (230V / 110V) 52700016 / 52700020

Für dieses Gerät übernehmen wir eine Gewährleistung gemäß unseren Allgemeinen Verkaufs- und Lieferbedingungen. Das gleiche gilt für Ersatzteile, sofern es sich um von uns gelieferte Originalteile handelt. Für Schäden, die durch die Verwendung von anderen als Originalersatzteilen oder Originalzubehör entstehen, ist jegliche Haftung unsererseits ausgeschlossen. Ausgenommen von der Gewährleistung sind alle Verschleißteile.

This equipment is guaranteed in accordance with our General Conditions of Business. This also applies to spare parts where these are original parts supplied by us. We will assume no liability for damage caused by the use of non-original spare parts and accessories.

Wear and consumable parts are not covered by the guarantee.



Speedy VS-140/200 (230V / 110V) 52700015 / 52700019

Speedy VS-140/200-XL (230V / 110V) 52700016 / 52700020

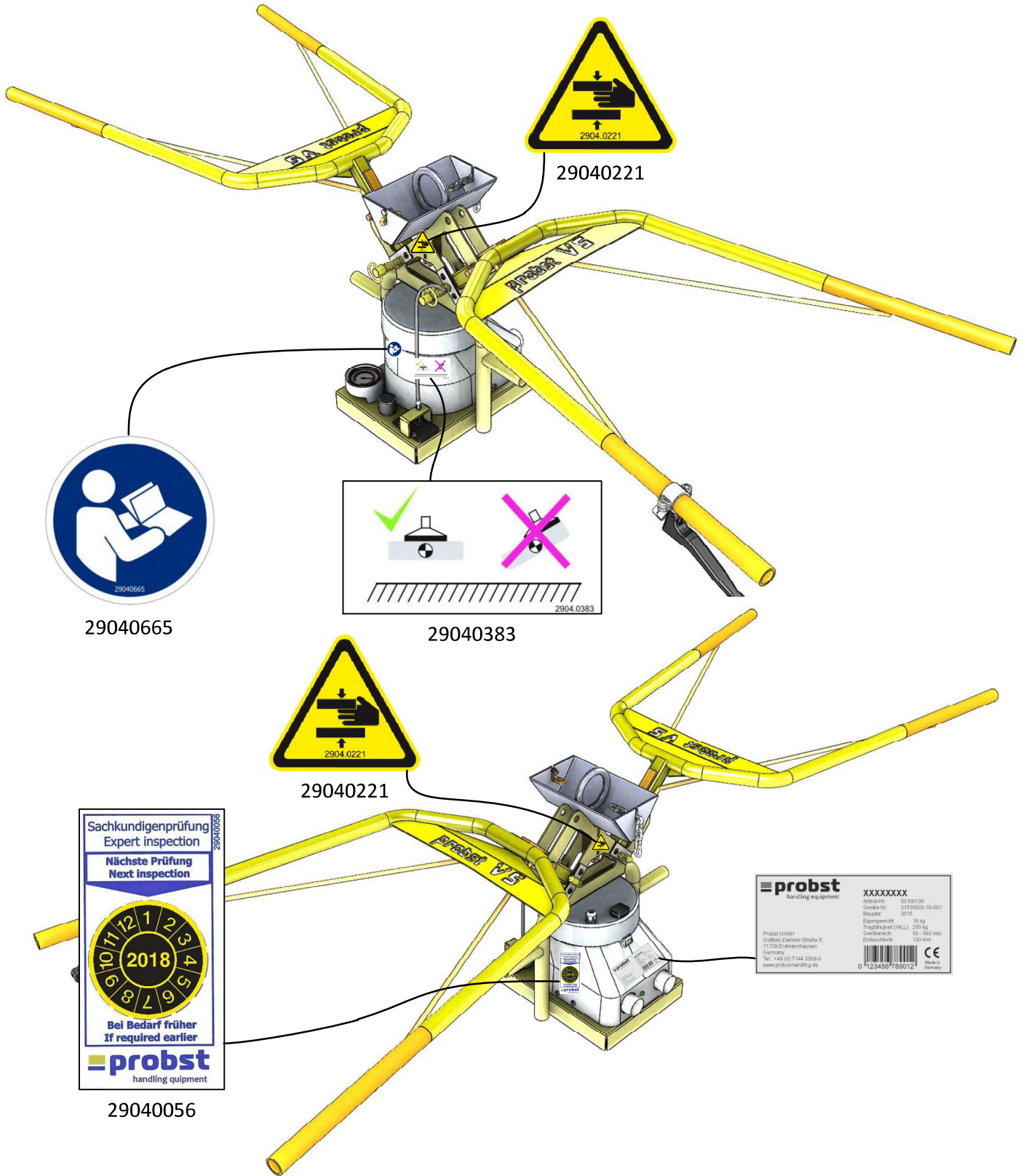
Pos.	Bezeichnung / Description	Art.-No.	Legende
1	Manometer VAM 63/1-175H / vacuum gauge	22130016	E
2	O-Ring 19x3.2 NBR-70	10.07.08.00123	V
3	Klett-/Velourband / belt	21060014	E
4	Dichtung für Gebläse / seal for fan	42710059	E
5	Siebeinsatz/ sieve	12.03.09.00086	E
6	Griffbezug / grip covering	21600016	V
7	Bedienbügel BB / operator handles	42710066	E
8	Dichtplatte/ sealing plate	42710147	V
9	Dichtrahmen (Schwammgummi)/ Sealing frame (sponge rubber)	42710165	V
10	Gebläse für Speedy VS2 230 V / fan for VacuMaster Speedy 230 V	42710034	V
	Gebläse für Speedy VS2 110 V / fan for VacuMaster Speedy 110 V	42710106	V
11	Deckel für Speedy VS2 / cover for VacuMaster SpeedyE	12.03.09.00275	E
12	Betätigungshebel mit Arretierung/ operating lever with lock	42710168	E
13	Federsteckbolzen verzinkt / spring bolt	42710052	E
14	Druckfeder-1,50 / pressure spring	42710058	V
15	Abdeckkappe/ Cap	21070118	E
16	Spannverschluss/ Toggle fastener	20.13.02.00033	E
17	Sechskantschraube M6X30/ Hexagon-head screw M6X30	20000004	E
18	Runddrahthülle / cover for bowden wire	21000157	V
19	Rundlitze mit Kugelpressnippel / round stranded wire with ball for bowden cable	21000157	V
20	Schalter-Schließer/ Switch closing contact	24120018	V
21	Kondensator/ Capacitor	42710062	V
22	Distanzstück/ distance	42710201	E
23	Rastbolzen/ Locking pin	42710200	V
24	Gummipuffer/ snap lock	42710187	V

E = Ersatzteil / Spare part

V = Verschleißteil / Consumable part

VB = Verschleißteilbaugruppe, enthält Verschleißteile / Consumable part-assembly, contains consumable parts

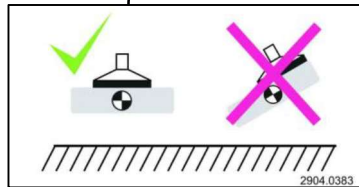
A52700015 SPEEDY VS-140/200
 A52700016 SPEEDY VS-140/200-XL
 A52700017 SPEEDY VS-140/200-110
 A52700018 SPEEDY VS-140/200-XL-110
 A52700011 SPEEDY VS-140/200
 A52700012 SPEEDY VS-140/200-XL
 A52700013 SPEEDY VS-140/200-110
 A52700014 SPEEDY VS-140/200-XL-110



29040221



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29040383



29040221



29040056



- A52700015 SPEEDY VS-140/200
- A52700016 SPEEDY VS-140/200-XL
- A52700017 SPEEDY VS-140/200-110
- A52700018 SPEEDY VS-140/200-XL-110
- A52700011 SPEEDY VS-140/200
- A52700012 SPEEDY VS-140/200-XL
- A52700013 SPEEDY VS-140/200-110
- A52700014 SPEEDY VS-140/200-XL-110

**Wenn Kettenfach vorhanden/
If chain storage is included**

2904.0209

29040690

29040767

2904.0387

29040387