

GRABO

GRABO® PRO-LIFTER 20

PORTABLE ELECTRIC VACUUM
LIFTING DEVICE

OPERATOR'S MANUAL



EN PORTABLE ELECTRIC VACUUM LIFTING DEVICE



ULTIMATE
LIFTING SOLUTIONS

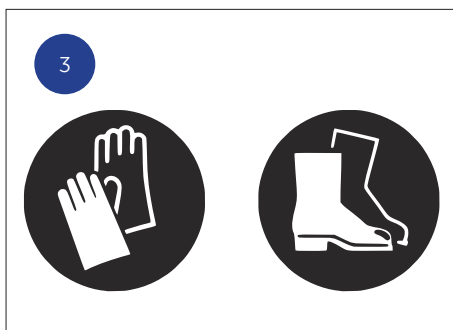
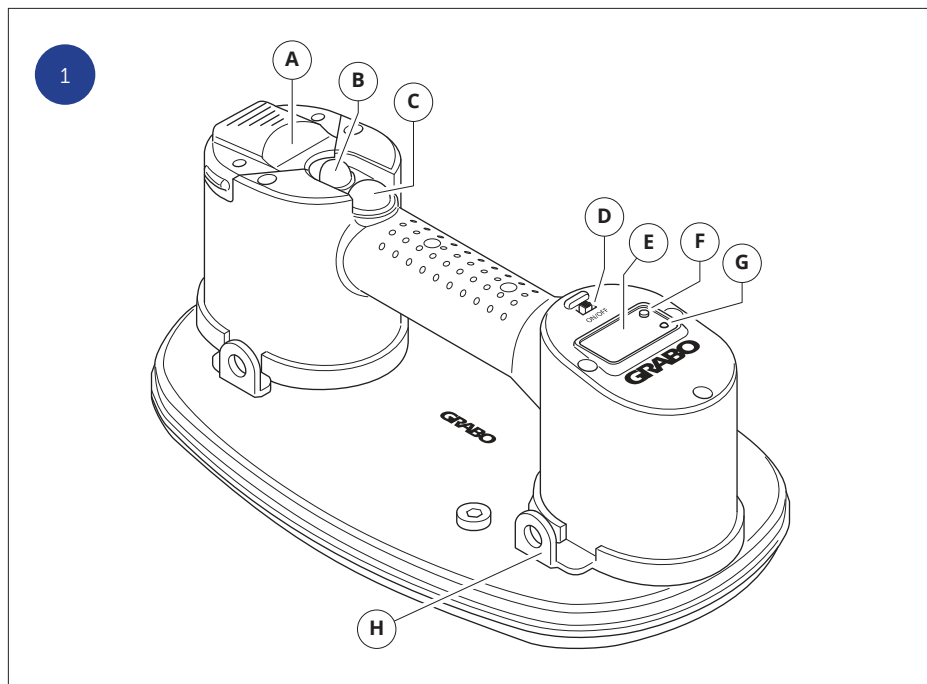
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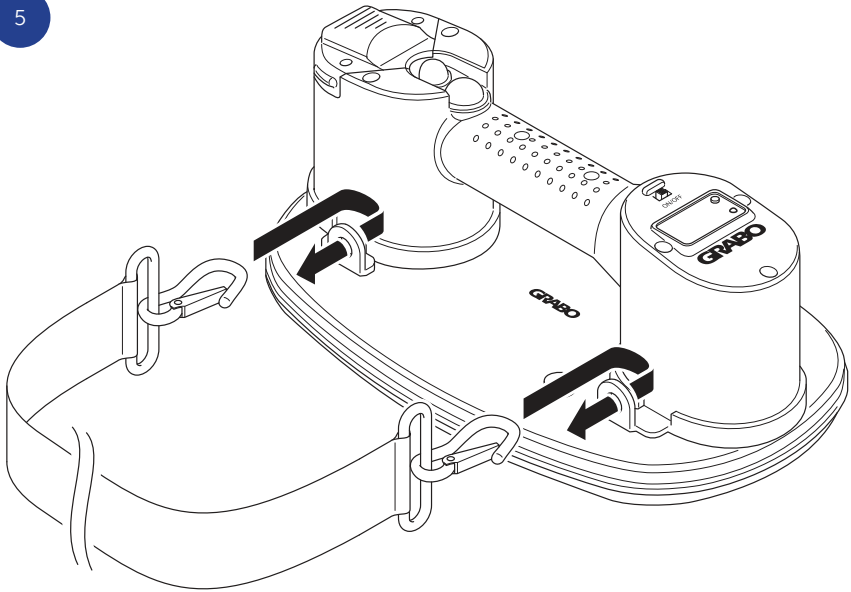
By Nemo Power Tools / Ultimate Lifting Solutions

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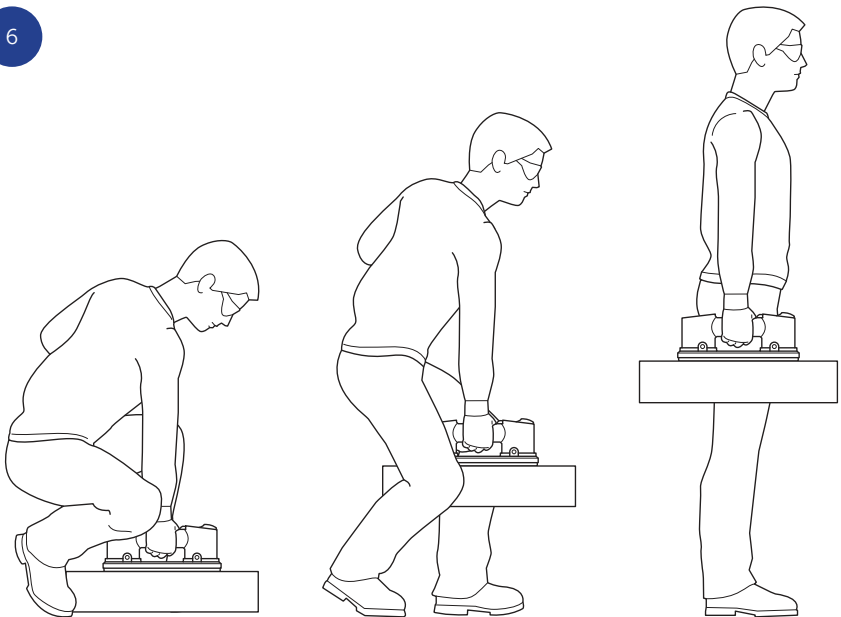




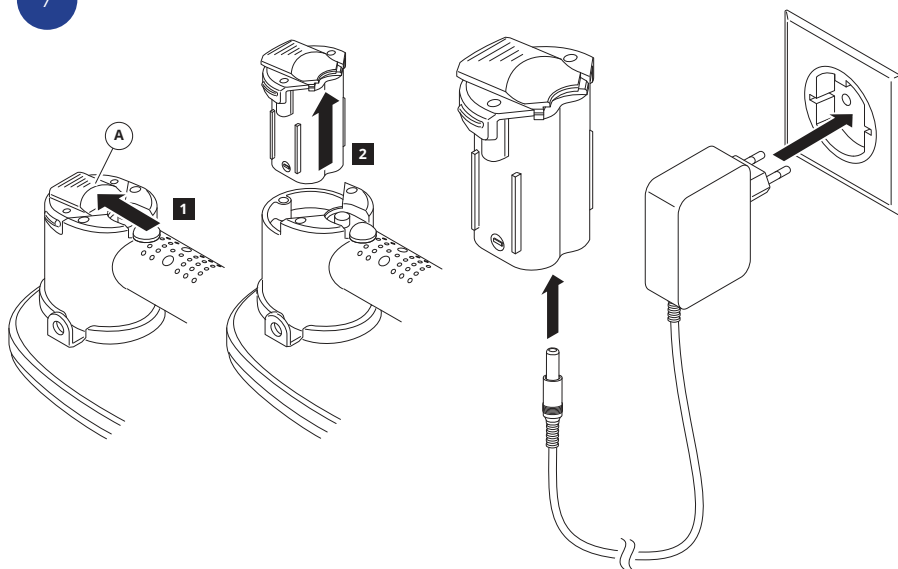
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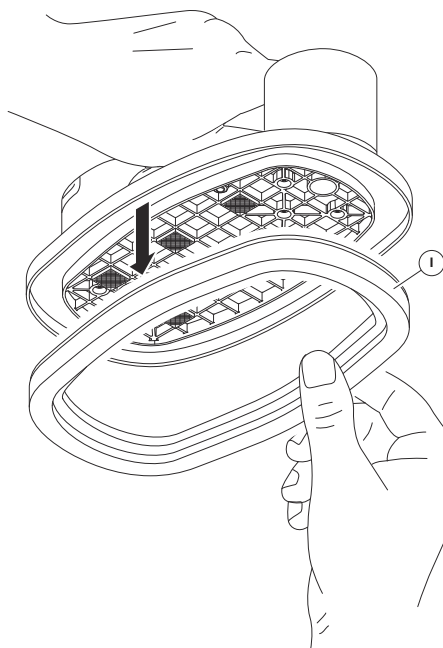
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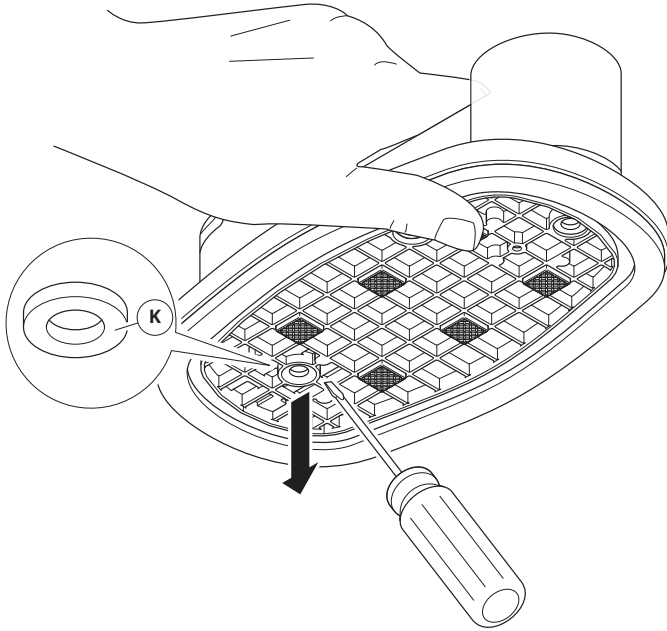
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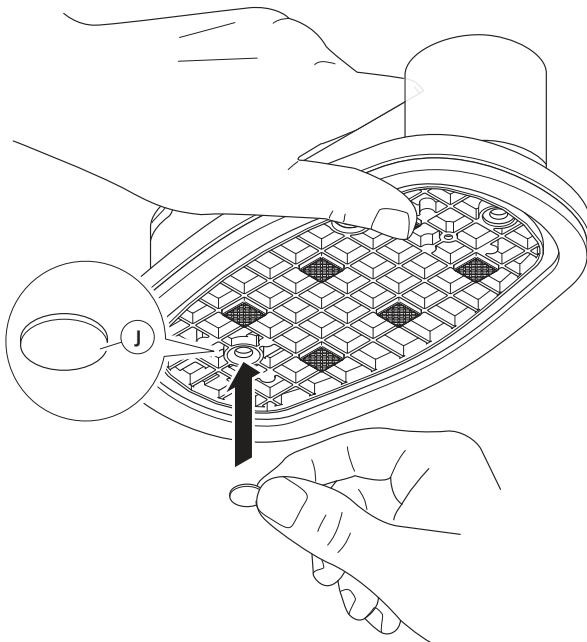
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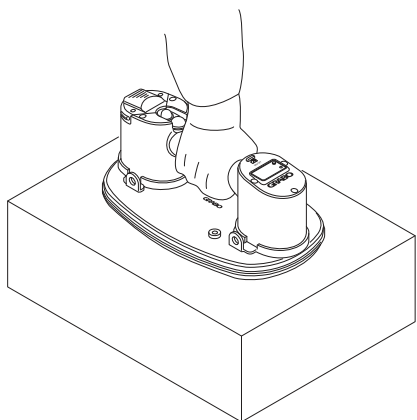
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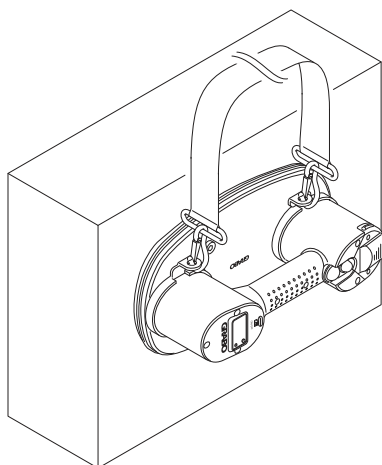
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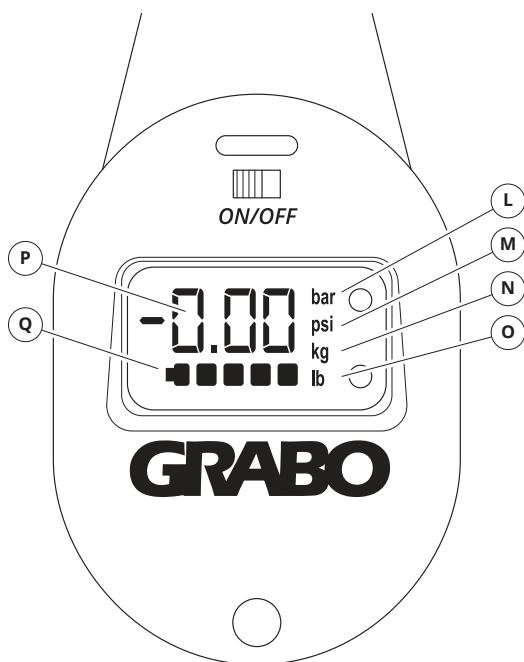
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GRABO® PRO-LIFTER 20

INTRODUCTION

The GRABO® Pro-Lifter 20 is a portable electric vacuum lifting device intended to lift, move, and place objects such as tiles, stone pavers, drywall, glass and furniture. The GRABO® Pro-Lifter 20 Pro has a built-in pressure sensor with an automatic start/stop function. The GRABO® Pro-Lifter 20 is designed to work with dry, rough and slightly porous material. The GRABO® Pro-Lifter 20 Pro is not intended:

- to be used for climbing or securing the human body in any way. This product is not designed or intended for climbing or to support a person's weight. Using this product for climbing or any other unintended purpose may result in injury or death.
- to lift, move, or place objects consisting of very porous, soft/flexible, and crumbling materials, such as simple cardboard boxes, styrofoam, dry cast pavers, compressed sand, or bad quality concrete.

! Read this instruction manual carefully before use and save it for future reference ②

TECHNICAL SPECIFICATIONS

Electric vacuum lifting device	GRABO® Pro-Lifter 20
Dimensions	300 x 184 x 118 mm/11.8 x 7.2 x 4.7 inches
Net weight (with battery)	1.5 kg/3.2 lbs

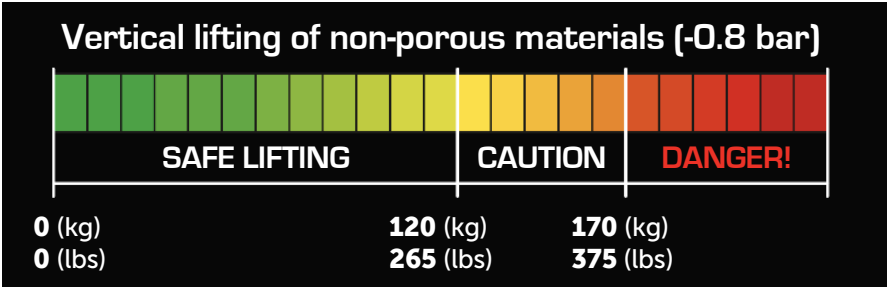
Battery	
Battery type	Li-ion 2600 mAh/14.8 V (4x cells 3.7 V)
Battery rated capacity	2.6 Ah
Nominal voltage/Charge voltage	14.8 V/16.8 V
Charge current	520 mA
Rated power	16 W
Overcharge protection	4.25 V
Working time (full charge)	1.5 hours
Operating temperature	0 °C ... +45 °C/+32 °F ... +115 °F Charge -20 °C ... +60 °C/-4 °F ... +140 °F Discharge
Storage temperature battery	-40 °C ... +125 °C/-40 °F ... +257 °F
Long-term storage battery (> 3 months)	+5 °C ... +20 °C/+40 °F ... +70 °F Charged to 14.4 – 15.6 V (80 – 90% of full charge)

Battery charger	
Charging output voltage	16.8 V rated; 8 - 12 V under load
Charging output current	200 - 400 mA under load, 1.4 A max
Charging input	100 - 240 V AC; 50/60 Hz; 1.5 A max.
Rated power	23.52 W
Operating temperature	0 °C ... +40 °C/+32 °F ... +105 °F
Storage temperature	-20 °C ... +85 °C/-4 °F to +185 °F
Working conditions	Indoor use only; not waterproof (IP0)

GRABO® PRO-LIFTER 20 lifting capacity

NOTICE: The GRABO® Pro-Lifter 20 was tested up to 240 kg (530 lbs) at maximum lifting force under ideal conditions. However, this figure is the breaking point under optimal lab testing conditions and must never be reached in real-world applications!

Local regulations require different safety margins to be used and the official tool Working Load Limit (WLL) is set to 120 kg (265 lbs) based on a 2:1 ratio on a non-porous surface. The Working Load Limit of 120 kg (265 lbs) is one-half of the tested maximum lifting force under ideal conditions (240 kg/530 lbs) and should be adhered to when working in countries where the 2:1 safety margin applies, regardless of the fact that the chart below shows a maximum lifting force of 170 kg (375 lbs). In no case should the GRABO® Pro-Lifter 20 be used to lift more than 170 kg (375 lbs). Use the chart below to estimate safe lifting values:



WLL: 120 kg (265 lbs) on non-porous surfaces

IMPORTANT: The lifting force is highly dependent on the lifted surface and factors such as temperature, altitude (ambient pressure), and other factors.

Always check the pressure displayed on the GRABO® Pro-Lifter 20 LED display and do not rely solely on the **estimated maximum lifting forces chart** when lifting different materials since different factors related to your specific application may reduce lifting capabilities of the tool.

Estimated maximum lifting forces as tested on different materials		
	Perpendicular holding force ⑪	Parallel holding force ⑫
Glass	170 kg/375 lbs	120 kg/265 lbs
Ceramic tile	170 kg/375 lbs	120 kg/265 lbs
Metal	110 kg/242 lbs	110 kg/242 lbs
Plastic	100 kg/220 lbs	100 kg/220 lbs
Wood	100 kg/220 lbs	65 kg/143 lbs
Rough concrete	80 kg/176 lbs	80 kg/176 lbs
Dry cast pavers	80 kg/176 lbs	80 kg/176 lbs
Drywall	75 kg/165 lbs	65 kg/143 lbs

NOTICE: When the vacuum level drops below -0.65 Bar (-65 kPa), the GRABO® Pro-Lifter 20 will automatically restart the pump (when the pump is switched on), thereby achieving the pressure required for use.

General specifications	
Running cycles (on full charge)	900 ON-OFF cycles of 10 seconds
Rated air flow	20 l/min (0.7 cfm)
Applicable surface type	Peak/valley heights less than 3 mm/0.1 inch, arc less than 5°

SCOPE OF DELIVERY

NOTICE: The exact scope of delivery may change, but it will always contain the items listed below. If your delivery contains any additional items, these will be listed separately. See *Spare Parts* for more information on ordering spare parts.

BASIC GRABO® Pro-Lifter 20 SCOPE OF DELIVERY:

- GRABO® Pro-Lifter 20 (tool only)
- Battery
- Operator's manual
- Multi-socket battery charger
- Fabric bag OR Blow mold case

TOOL ELEMENTS 1 B

- | | |
|-------------------------------------|---------------------------------------|
| A. Battery | J. Air filter pad |
| B. Red vacuum release button | K. Air filter lock ring |
| C. Green motor power button | L. Pressure in bar |
| D. Power ON/OFF switch | M. Pressure in psi |
| E. Digital display | N. Weight in kg |
| F. Measurement unit selector | O. Weight in lbs |
| G. Run status indicator | P. Value of pressure or weight |
| H. Attachment rings (4x) | Q. Battery bar indicator |
| I. Rubber foam seal | |

SAFETY

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING: Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

- a) Keep your work area clean and well lit.**
Cluttered benches and dark areas invite accidents.
- b) Do not operate power tools in an explosive atmosphere, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite dust or fumes.
- c) Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed**

(grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- c) Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**
Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of a RCD reduces the risk of electric shock.

3) PERSONAL SAFETY

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to a power source and/or battery and picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Removal of dust can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool**

safety principles. A careless action can cause severe injury within a fraction of a second.

4) POWER TOOL USE AND CARE

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn on and off easily.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or remove the battery, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the**

working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

- h) Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) BATTERY TOOL USE AND CARE

- a) Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery may create a risk of fire when used with another battery.
- b) Use power tools only with specifically designated battery.** Use of any other battery may create a risk of injury and fire.
- c) When battery is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid
- ejected from the battery may cause irritation or burns.**
- e) Do not use a battery or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f) Do not expose a battery or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C/265 °F may cause an explosion.
- g) Follow all charging instructions and do not charge the battery or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6) SERVICE

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- b) Never service a damaged battery.** Service of battery should only be performed by the manufacturer or authorized service providers.

VACUUM LIFTING DEVICE SAFETY WARNINGS

- a) Do not deliberately try to rip the load off with extreme force.** There is a risk of the load crushing feet and hands and damaging the object and tool.
- b) Do not lift objects weighing more than 170 kg (375 lbs).** There is a risk the weight can fall off.
- c) Risk of load crushing feet and hands and damaging the object and tool.** Do not shake the tool while lifting, moving and placing objects. Do not swing or shake the load while lifting, moving and placing objects. Do not use the tool when the seal is worn out. Lift and carry the load with uniform speed without sudden sharp and strong movements.
- d) Do not use the tool while the battery is low.** There is a risk of injury and damage to the materials being lifted.
- e) If the sealing force begins to noticeably decrease while the battery is fully charged, check the rubber foam seal for**

wear and tear or damage. Do not attempt to lift anything with the tool until you have replaced the seal.

- f) **Use caution when lifting large thin flexible sheets, like drywall, cardboard, plastic, plywood, thin sheet metal etc.** Thin sheets bend and flex and can unexpectedly change curvature above their limit and detach.
- g) **Do not attach the tool to surfaces with visible puddles of water.** Internal components are not waterproof. If water is sucked into the air ducts it can cause permanent damage to the tool. The GRABO® Pro-Lifter 20 is not waterproof and therefore extreme caution should be taken when using in the rain or wet conditions.
- h) **Do not drop the tool from heights above 1.5 meter above the ground (chest level).** If dropped by accident, inspect the seal side lips for damage.
- i) **Do not place heavy objects on top of the tool.**
- j) **Do not place the digital display in direct sunlight or near strong heat sources for prolonged periods.** Extreme heat may

damage the display and it may become unreadable. A damaged display does not necessarily impact the functionality of the tool.

- k) **To avoid overheating, do not cover the tool.**
- l) **Ensure the switch is in the off-position before transporting the tool and when in storage.** Be mindful that the tool is not switched on accidentally.
- ! **WARNING!** Weight may drop without warning if the safety precautions are not met! The GRABO® Pro-Lifter 20 creates a strong vacuum. In case the seal is broken or the allowed weight is exceeded or any other factor that causes the negative pressure to release spontaneously, this kind of failure will happen suddenly and absolutely without any sensory indication or warning. You will not notice the weight detaching and there will be no possibility to stop or catch it. This is very dangerous, especially with heavy loads. Therefore all safety precautions should be kept to the maximum.

RUBBER FOAM SEAL USAGE AND SAFETY

- ! The rubber foam seal is made of two parts: black rubber foam and red silicon seal. Black rubber foam is mostly used to create initial vacuum. After it compresses, the red seal holds the longest and strongest seal. As long as the initial seal is created to get suction, the "strong" seal will also be created. The rubber foam seal uses patented technology and is one of the main components of the tool. It should be handled with caution as it directly impacts the overall performance and safety.
- a) **The seal can withstand an estimated 900 compression cycles,** depending on force

and duration of compression, without any damage.

- b) **Avoid rubbing the seal over rough surfaces.** Seal material is very prone to parallel wear (moving parallel to rough surface in ironing motion). Lift perpendicularly on very rough surfaces. Rubbing the seal over a smooth surface such as granite in the presence of thick abrasives (thick sand) will damage the seal and may cause unexpected detachment.
- c) **Surfaces with very sharp edges should not be lifted in parallel hold.** Edges sharper than 45 degrees may damage the seal and lead to sudden vacuum loss and

sudden detachment. The motor should always be on.

- d) Always store the seal covered with a hard cover. The seal can be easily damaged by sharp corners and edges when in storage.** The seal should not be stored with sharp tools or in contact with any hard objects (e.g. inside a toolbox).

- e) Do not dip the seal in water.** The rubber foam seal is slightly water absorbent. Unless it is fully dipped in water and soaking wet, slightly soaking the seal with water will not damage its performance. If it is soaked in water, it can be squeezed by hand like a sponge to dry without damage. It is advisable to use a dry seal to

avoid water getting sucked into air ducts and inside the body.

- ! Do not dip or use the seal in the presence of any oil-based products.** Oil and oil products (machine oil + lubricants) will permanently damage the seal and cannot be removed. If the seal has absorbed oil, it should be disposed of safely, the base should be cleaned, and the seal replaced.
- ! Do not use or store the seal in the presence of chemical solvents.** Kerosene, acetone, turpentine, benzene, acids, etc. and even their fumes in closed spaces or thin layers on surfaces can melt the seal and damage its structure and cause failure.

EXPLANATION OF SYMBOLS USED ON TOOL

- 2** Read the operator's manual before use
- 3** Wear protective shoes and gloves
- 4** Do not dispose of the tool together with household waste material

NOISE EMISSION/VIBRATION

- A-weighted sound pressure level $L_p A = 79.4 \text{ dB(A)}$, uncertainty $K = 3 \text{ dB(A)}$. A-weighted sound power level $L_w A = 71.4 \text{ dB(A)}$, uncertainty $K = 3 \text{ dB(A)}$.
 - Vibration total value $= 1.240 \text{ m/s}^2$, uncertainty $K = 0.11 \text{ m/s}^2$. The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value may also be used in a preliminary assessment of exposure.
- ! WARNING:** The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used. It's necessary to identify safety measures to protect the operator based on an estimation of exposure in the actual conditions of use (under consideration of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

TRANSPORT

The lithium-equivalent content in the batteries is below applicable limit values. Regulations governing hazardous goods may be relevant when transporting several batteries. In this case, it may be necessary to comply with special conditions, such as those governing packaging. Always make sure the national installation regulations are observed.

ASSEMBLY

CONNECTING A STRAP TO THE GRABO® Pro-Lifter 20 ⑤

- As an option, you can attach a strap to the GRABO® Pro-Lifter 20 to carry the device safely.
 1. Locate the four attachment rings ④.
 2. Connect a strap to any two of these attachment rings.
 3. Secure each of the clips at the ends of a strap into an attachment ring.

OPERATION

LIFTING TECHNIQUES

- Plan ahead. Know what you are lifting and how you will lift it. Be aware of the weight of the object. Determine whether or not it is safe to lift on your own. Make sure the work area is flat, dry and clear of debris.
- Check your path. Make sure the lift path is clear. Remove any tripping hazards or debris. Check for any wet or slick surfaces.
- Use ergonomic equipment. Use lift assists such as a forklift, dolly, cart, hand truck, or hoist.
- Make sure you are trained before using the equipment.
- Get help when needed. When lifting awkward or heavy loads, utilize a two person lift. Make sure you lift at the same time and keep the load level.
- Wear proper required protective shoes and gloves.
- Basic diagonal lifting technique: ⑥
 - ! Use this basic lifting technique for small objects when you can straddle the load and use a wide stance.
 1. Get as close to the object as possible.
 2. Use a wide stance with one foot forward and to the side of the object for good balance.
 3. Keep your back straight, push your buttocks out. Use your legs and hips to lower yourself down to the object.
 4. Move the object as close to you as possible.
 5. Put the hand (same side of your body as the forward foot) on the side of the object farthest from you.
 6. When lifting the load holding the GRABO® Pro-Lifter 20 with one hand, secure the load with your other hand.
 7. Prepare for lifting, tighten your core muscles, look forward and upward, and maintain a straight and strong back.
 - ! Do not hold your breath while lifting. Do not bend or twist your waist. Do not use a partial grip (1-2 fingers). Do not obstruct your vision when carrying. Do not jerk or lift quickly. Do not pinch your fingers or toes.
 - 8. Lift slowly and follow with your head and shoulders. Hold the load close to your body. Lift by extending your legs with your back straight, and breathe out as you lift. Pivot your feet to avoid twisting.

CHARGING THE BATTERY BEFORE FIRST USE ⑦

The batteries are partially charged and must be charged to full capacity before using the GRABO® Pro-Lifter 20 for the first time. When the batteries are fully charged, which takes approximately two hours from the discharged state, the GRABO® Pro-Lifter 20 motor can run for up to 1.5 hours. See CHARGING THE BATTERY.

OPERATING THE GRABO® Pro-Lifter 20

1. Slide the power ON/OFF switch ⑩ into the ON position. The run status indicator ③ lights up red and the digital display ⑥ shows the amount of available charge and the current pressure. **NOTICE:** If the last bar of the battery bar indicator flashes red, the battery needs to be charged (see CHARGING AND CHANGING THE BATTERY).
- ! **CAUTION:** Using the GRABO® Pro-Lifter 20 while the battery is low may result in injury and damage to the materials being lifted. It is advisable to fully charge the battery before using the GRABO® Pro-Lifter 20.
2. As an option, press the measurement unit selector ⑤ to change the pressure unit measurement from bar to psi and weight units from kg to lbs.
3. Position the GRABO® Pro-Lifter 20 firmly against the surface of the object you want to lift.
4. Press the green motor power button ④. The run status indicator ③ flashes red. A seal is created within seconds. When the negative pressure reaches the maximum level, the run status indicator ③ turns green and the motor stops automatically.
5. Lift and move the object.
- ! When lifting materials with dusty, dirty, or moist surfaces, remove the dust and dirt as much as possible. The GRABO® Pro-Lifter 20 will automatically turn the pump on and off to maintain the pressure necessary for safe lifting.
- ! For maximum safety, switch the display to weight units (kg / lbs) and compare the displayed values with the weight being lifted, based on the "Maximum lifting force" table. Do not try to lift any weights heavier than the value displayed.

TO END OPERATING THE GRABO® Pro-Lifter 20

1. When you are done and the object is in a secure and stable position, press the green motor power ④ button to stop the vacuum pump. Press the red vacuum release button ⑧ to break the seal and release the object.

CHARGING AND CHANGING THE BATTERY ⑦

Charge the battery when the capacity is low or the battery is empty.

1. Slide the battery latch to unlock the battery ④.
2. Remove the battery.
3. Connect the battery with the multi socket battery charger to a wall socket.
4. When the battery is fully charged, the battery bar indicator ③ turns green.
5. Disconnect the multi-socket battery charger from the wall socket and battery.
6. Put the battery in the battery compartment.
7. Press and slide the battery latch to lock the battery.


- ! Charge only with the charger specified by the manufacturer.
- ! During the process of charging, the charger can become warm: this is normal.
- ! Only use the charger in a dry environment. The charger is not waterproof.
- ! Ensure that the power supply voltage corresponds to the data on the nameplate of the battery charger.
- ! Keep away from flammable objects while charging.

EXPLANATION OF VISUAL INDICATORS

GRABO® Pro-Lifter 20	
Signal	Meaning
No light	The GRABO® Pro-Lifter 20 is turned off
Run status indicator is continuously red	<ol style="list-style-type: none"> 1. The GRABO® Pro-Lifter 20 is turned on and ready for use 2. Pressure is building up and reaching its maximum capacity 3. Pump is switched off
Run status indicator flashes red	Pump is switched on; pressure is low and building up
Run status indicator is continuously green	Pump is switched on but the motor is off; pressure has reached its maximum capacity
Bar indicator on display shows 5 green bars	Battery is sufficiently charged
Last bar of bar indicator on display flashes red	Battery capacity is low/empty
Bar indicator on display	1 Bar = 20% full 2 Bar = 40% full 3 Bar = 60% full 4 Bar = 80% full 5 Bar = 100% full

Battery Charger	
Signal	Meaning
LED is continuously red	Battery is charging
LED is continuously green	Battery is fully charged

MAINTENANCE

 **WARNING:** Changes to the tool and technical modifications are not permitted. This can lead to injury. If the tool fails despite the care taken in manufacturing and testing procedures, repair shall be carried out by an after-sales service centre for the GRABO® Pro-Lifter 20.

REPLACING THE RUBBER FOAM SEAL 8

Remove the rubber foam seal if it has become worn or damaged.

1. Pull out the rubber foam seal ①.
2. Gently press a replacement rubber foam seal into position.
3. Make sure that the replacement rubber foam seal fits correctly and securely.

REPLACING OR CLEANING THE AIR FILTER 9

Clean the filter when dirty. The filter needs to be replaced when the filter is badly worn or ripped (at customer's discretion). This is determined by how the GRABO® Pro-Lifter 20 is being used. When lifting clean material, the filter will last longer than when being used on dirty/dusty materials.

1. Turn the GRABO® Pro-Lifter 20 upside down.
2. Use the tip of a screwdriver to remove the air filter lock ring ⑥ and the air filter pad ⑦.
3. Do one of the following:
 - a. Clean the filter with compressed air, or
 - b. Insert a replacement air filter pad.
4. Insert the air filter lock ring to secure the filter.

! Do not clean a dirty air filter with water! It may become clogged and unusable.

! A decrease in suction power indicates that the air filter needs to be cleaned and/or replaced. Check that the air duct is free from any obstruction or foreign objects during filter replacement.

WARRANTY

30-DAY MONEY BACK HARD GUARANTEE

New unused power tools and accessories purchased from Nemo Power Tools or one of our authorized dealers can be returned to our Las Vegas warranty center within 30 days of purchase. Please contact your dealer to ask about their specific store policy, or ship your product (prepaid) in its original undamaged packaging along with the original receipt to: Nemo Power Tools LLC, Eastern Commerce Center, 6000 S Eastern Ave, Suite 8B, Las Vegas, Nevada, 89119

1-YEAR LIMITED WARRANTY

Nemo Power Tools prides itself on its attention to detail, the quality of its products and materials used. Therefore, we provide this manufacturer's warranty from the date of purchase. You have the option of registering your GRABO® Pro-Lifter 20 product online, which gives you the benefit of extending the manufacturer's warranty to a full 18-month period. If you believe you have received a defective product, or if you are experiencing any problems with your product, please visit our Support page - www.GRABO.com/GRABO-warranty. Within the scope of this 1-year warranty, we will repair or replace, any defects of material or workmanship free of charge. For warranty repair information, call +1 (702)-718-2433. This warranty does not apply if the damage was caused by improper usage of the tool such as water damage, dropping the tool, overloading the tool beyond its rated capacity, leaving the tool "on" while in storage, or any other clear cases of user error. This warranty gives you specific legal rights, and you may have other rights which vary in certain states or provinces. Nemo Power Tools

Limited will attempt to diagnose any technical issues over the phone or via email, based on the customer's description of the problem including videos/pictures of the faulty product sent to our technical team. In certain situations, a physical examination of the tool may be required to determine whether a technical issue falls within the scope of this 1-year limited warranty. If a physical examination of the tool is required, shipping to our Las Vegas warranty center will be covered by the customer, and return shipping will be covered by Nemo Power Tools.

WARRANTY DOES NOT APPLY TO FAILURES DUE TO:

- Freight damage.
- Misuse, overloading, or accidental activation of the tool in storage.
- Damage caused by parts or accessories not obtained from an authorized dealer or not approved by Nemo Power Tools.
- Normal wear of moving parts or consumables, such as seals and filters.

7-YEAR LIMITED WARRANTY

This applies only to certain categories of tools. Please check with our Las Vegas Warranty Center at +1 (702)-718-2433 if your tool category is eligible.

Registering your product






GRABO® products mostly include a basic warranty plan. Registering your product after your purchase from a licensed dealer may extend your warranty and grant you further benefits (subject to your product type, location, and place of purchase). Registration is free and simple. Please locate your product's serial number and complete the provided form. Register online for warranty: www.GRABO.com/REG

TROUBLESHOOTING

www.GRABO.com/GRABO-pro-troubleshoot

NOTICE: If you are having any issues with your digital display, please perform the following steps to reset your digital display.


GRABO® Pro-Lifter 20 learning mode/recalibration mode:

1. Place the GRABO® Pro-Lifter 20 on a non-porous surface such as a polished tile.
2. Slide the power ON/OFF switch  into the ON position.
3. Press the measurement unit selector  for 10 seconds. When the red light turns green, release the measurement unit selector .
4. Wait for about 5 seconds. The vacuum pump will start working. Let the device create full suction. If suction does not start on its own, push the device downward to create a seal. Full suction is reached when the digital display numbers have reached their highest point and don't continue to increase.
5. When full suction is reached, press the measurement unit selector  again for 3 seconds until the green light flashes and the pump turns off.
6. Turn the device off and on again with the the power ON/OFF switch .

The device is now calibrated and the values in the digital display window should be correct.

NOTICE: The GRABO® Pro-Lifter 20 will display incorrect values on the digital display if the device is not calibrated on a non-porous surface such as tile or glass. In this case the calibration process must be repeated on a non-porous material. DO NOT perform this process on glass that is thinner than 6 mm. Glass thinner than 6 mm may be damaged.

DISPOSAL

Do not dispose of electric equipment, batteries, accessories, and packaging in domestic waste in observance of the European Directive 2012/19/EC on waste of electrical and electronic equipment and its implementation in accordance with national law. Electrical equipment that has reached the end of its life shall be collected separately and returned to an environmentally compatible recycling facility. The WEEE symbol  will remind you of this when the need for disposal occurs.

SPARE PARTS

Name	Article number
GRABO® Pro-Lifter 20	GP
Battery	TB05000
Multi-socket battery charger	SP94112
Rubber foam seal	RK13001
Fabric bag	SN23017

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, the GRABO® Pro-Lifter 20, Model No. NG-Pro-14.8-2Li and GP-1Li-FB-1S, is in conformity with the following standards or standardized documents: EN 55014-1:2017, EN 55014-2:2015, in accordance with the provisions of the directives 2014/30/EC, 2006/42/EC, 2011/65/EU.

Technical file at: Nemo Power Tools

Name: Nimo Rotem

Date: 10/11/2021

Signature

NIMO