



KERNLOCHBOHRER[®]
PROFESSIONAL POWER TOOLS



Operating instructions

Vacuum base plate

VGP-420/PRO

BA-07-000001-02-EN

Scope of application

These Operating instructions only apply to the device designated on the cover sheet.

Original instructions / translation of the original instructions

The German copy of these Operating instructions is the original instructions in accordance with the EU Machinery Directive.

Copies in other languages are translations of the original instructions.

Kernlochbohrer GmbH

Geigersbühlweg 52

72663 Großbettlingen

Germany

Phone: +49 (0)70 22 / 50 34 900

E-mail: info@kernlochbohrer.com

Internet: <http://www.kernlochbohrer.com>

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The function of the machine is limited to the functions described in the associated technical documentation.

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1 Information and support

1.1 Thanks to the buyer

Thank you for purchasing a device from Kernlochbohrer GmbH.

Please read the Operating instructions carefully and observe the safety instructions. By following the Operating instructions, you will be able to take full advantage of the outstanding performance of our product.

If you have any questions regarding the operation of the device, please contact Kernlochbohrer GmbH directly. We are available to answer your questions at any time.

1.2 Using the Operating instructions

The appliance is intended for professional use and may only be operated by trained personnel. Strictly adhere to the instructions in the Operating instructions.

Our company declines all responsibility if the Operating instructions are not observed, which may result in injury or damage to property.

The Operating instructions are indispensable for using the appliance. The Operating instructions must therefore always be kept close to the appliance and be accessible to the intended personnel at all times.

In addition to the Operating instructions, the generally applicable and local regulations for accident prevention and environmental protection must be provided; compliance with these regulations must be checked regularly.

1.3 Changes

Kernlochbohrer GmbH reserves the right to change the design and appearance of the products and their Operating instructions. Future changes to the Operating instructions will be made without prior notice.

1.4 Explanation of symbols



This symbol draws your attention to dangers that you must be aware of when carrying out the following work in order to avoid injury to yourself, other persons or damage to property.



Cross-reference to another point in the Operating instructions.



Prerequisite for an action.



Action to be performed.



Behavior of the device that is to be expected as a result of the preceding action.



Background information or reference to special features.

1.5 Warranty

In accordance with Kernlochbohrer GmbH's general terms of delivery, a warranty period of 12 months applies for material defects in business transactions with companies (proof by invoice or delivery bill).

Damage caused by natural wear and tear, overloading or improper handling is excluded.

Damage caused by material or manufacturer defects will be rectified free of charge by repair or replacement. Complaints can only be recognized if the device is sent to Kernlochbohrer GmbH undismantled.

Wear parts are excluded from the warranty.

1.6 Environmental protection

1.6.1 Disposal of the product

Follow national regulations on environmentally friendly disposal and recycling of used appliances and accessories.

1.6.2 Disposal of the packaging

The packaging is made of recyclable materials. They must be disposed of in accordance with their labeling and municipal guidelines.

1.7 Service

Precise information and specific questions allow faults to be rectified quickly, make it easier to order spare parts and prevent incorrect deliveries.

Before contacting the service, please collect the following data first.

The model designation must be stated for all questions and orders.

Further information is required in the event of faults:

Type and extent of the disorder, accompanying circumstances, suspected cause.

- ① You are welcome to send us photos when ordering spare parts or videos in the event of faults.

Contact details:

Kernlochbohrer GmbH

Geigersbühlweg 52

72663 Großbettlingen

Germany

Phone: +49 (0)70 22 / 50 34 900

E-Mail: info@kernlochbohrer.com

Internet: <http://www.kernlochbohrer.com>

2 Security

2.1 General information

The appliance has been built according to the state of the art and in compliance with the applicable laws, standards and safety regulations. Nevertheless, the use of the appliance may pose a risk to the user or third parties and cause damage to the appliance and other property.

The appliance may only be used if it is in perfect working order and in accordance with its intended use and in a safe and hazard-conscious manner.

If the appliance is damaged or malfunctions, take it out of operation immediately, secure it against use and repair it or arrange for it to be repaired.

2.2 Intended use

The device is intended exclusively for attaching core drill rigs to floor and wall surfaces.

The negative pressure required to attach the device must be generated using a suitable device.

The appliance may only be used within the limits of its technical data. This information, for example power specifications and ambient conditions, can be found in the "Technical data" chapter.

Any other use or use beyond this is considered improper use - risk of accident! Kernlochbohrer GmbH is not liable for any resulting damage. The risk is borne solely by the operator.

Intended use also includes observing the operating instructions and complying with the prescribed maintenance intervals.

2.3 Safety regulations for the operator

2.3.1 Organizational security measures

The Operating instructions must always be available to operating and maintenance personnel. They must therefore always be kept at the place of use of the appliance.

The regulations on accident prevention and environmental protection applicable at the place of use of the appliance must also be available. The operator of the device must regularly check that they are complied with.

The appliance must not be operated in potentially explosive atmospheres or in the vicinity of flammable liquids, gases or combustible dust.

All safety and danger notices on the appliance must be legible and must not be removed.

The protective equipment required to operate the device must be provided by the operator. The operator must ensure that the protective equipment is used properly by the personnel.

Operating and auxiliary materials, such as lubricants or cleaning agents, must be selected in such a way that the limit values for hazardous substances applicable at the place of use are complied with. The regulations for environmental protection and disposal applicable at the place of use must be complied with.

2.3.2 Changes to the device

The operator may not make any modifications to the device without written approval from Kernlochbohrer GmbH. If the operator carries out modifications without authorization, the warranty becomes void. Kernlochbohrer GmbH is not liable for damage caused by unauthorized modifications.

2.3.3 Spare parts

Spare parts must comply with the properties defined by Kernlochbohrer GmbH. This is always guaranteed for spare parts supplied by Kernlochbohrer GmbH. Kernlochbohrer GmbH is not liable for damage caused by the use of unsuitable spare parts.

2.3.4 Personnel

All persons entrusted with the commissioning, operation and maintenance of the appliance must have read and understood the Operating instructions beforehand.

The appliance may only be operated by persons who have been adequately instructed beforehand.

The appliance may only be serviced by persons who have completed the relevant specialist training.

Minors are not permitted to work with the device. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

2.4 Safety regulations for staff

2.4.1 Safety-oriented behavior

All persons responsible for commissioning, operating and maintaining the appliance must have read and understood the Operating instructions beforehand.

The appliance may only be operated by persons who have been adequately instructed beforehand.

The appliance may only be serviced by persons who have completed the relevant specialist training.

Minors are not permitted to work with the device. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

Any work on and with the appliance that impairs safety must be avoided.

All safety and danger notices on the appliance must be legible and must not be removed.

2.4.2 Safe operation

Operating the appliance requires the full concentration and ability of the personnel. Persons who are overtired, unable to concentrate or under the influence of alcohol, drugs or medication must not work on or with the appliance.

Persons who are not directly required to operate the appliance must maintain a sufficient safety distance from the appliance.

Before using the appliance, check that it is in perfect condition. If the appliance is damaged, it must not be used. Then secure the appliance against use and repair it or arrange for it to be repaired.

In order not to jeopardize the functionality and safety of the appliance, covers or other components of the appliance must not be removed.

Operating elements must not be operated thoughtlessly or willfully. This could result in personal injury or damage to the appliance.

When using the appliance, staff must ensure that they stand securely and adopt an ergonomic posture.

The appliance must not be left unattended during use.

Never immerse the device in water.

The appliance must be cleaned regularly so that dirt does not accumulate. All operating elements and handles must be kept clean, dry and free of grease.

When the appliance is not in use, it must be parked in such a way that nobody is endangered. Secure the appliance against unauthorized use.

2.4.3 Protective equipment

Wearing protective equipment reduces the risk of injury:

- Safety shoes with non-slip sole and protective toe cap
- Cut-resistant and non-slip gloves
- Safety goggles according to standard EN 166 or face protection
- Safety helmet

If the noise emissions generated when using the appliance exceed the limits applicable to this workplace, suitable hearing protection must be worn.

Persons carrying out maintenance work on the appliance are obliged to wear the appropriate protective equipment required for this work.

2.5 Safety during maintenance

2.5.1 General information

The appliance may only be serviced by persons who have completed the relevant specialist training.

The maintenance activities and intervals specified in the Operating instructions must be observed.

Workshop equipment appropriate to the type of work is required to carry out maintenance activities.

The following safety precautions must be taken before starting maintenance work:

- Position the device so that the surgical site is easily accessible.
- Set the device to the appropriate operating status.

After completion of maintenance activities:

- Assemble the appliance completely.
- If operating elements or safety devices have been removed, they must be refitted and their function checked.

Persons carrying out maintenance work on the appliance are obliged to wear the appropriate protective equipment required for this work.

2.5.2 Cleaning

Do not use any corrosive, harmful or environmentally damaging substances to clean the appliance. Dispose of cleaning agents in an environmentally friendly manner.

Under no circumstances should high-pressure cleaners, water jets or compressed air be used to clean the appliance.

3 Technical data

- ① In these Operating instructions, the term drilling system is used for a combination of core drill rig, core drilling machine and drill bit.

Article number	6262
Length	335 mm
Width	420 mm
Weight	5.5 kg
Maximum drilling diameter wall drilling	102 mm
Maximum drilling diameter of bottom hole	162 mm
Maximum weight of the drilling system	25 kg
Required negative pressure	0.7 bar
Mounting core drill rig: Cord threaded rod (M12) with disk wing nut and washer	Ø 16.8 mm L = 175 mm
Permissible ambient temperature	5°C to 40°C
Permissible relative humidity	30% to 80%
Compatible core drill rig	Kernlochbohrer GmbH or other manufacturers



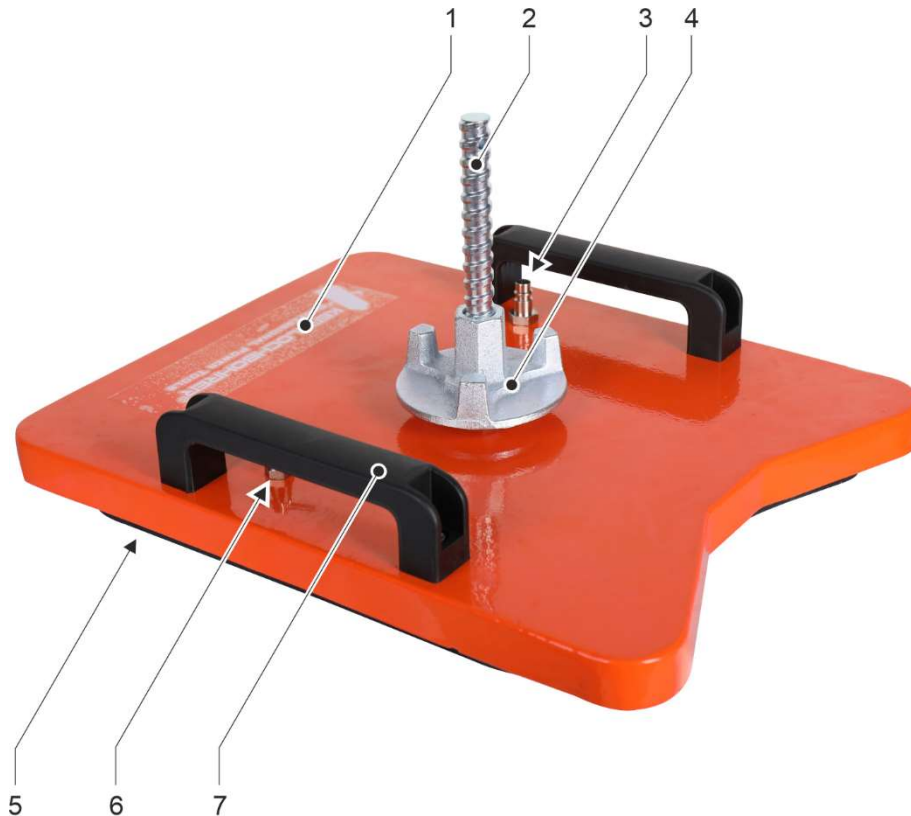
Secure and reliable attachment of the vacuum base plate is only possible if the surface intended for attachment is as flat, smooth and clean as possible.

If the mounting surface is uneven, rough or dirty, the drilling diameter or the weight of the drilling system may have to be reduced!

If the drilling system cannot be securely fastened with the vacuum base plate, it must be screwed to the drilling point!

4 Device description

4.1 Device components



- 1 Vacuum base plate
- 2 Cord threaded rod
- 3 Hose connection
- 4 Disc wing nut and washer (concealed)
- 5 Gasket
- 6 Ventilation valve (partially concealed)
- 7 Handle (2 pieces)

4.2 Scope of delivery

The scope of delivery of the device includes the following components:

- Vacuum base plate
- Mounting set consisting of:
 - Cord threaded rod (\varnothing 16.8 mm | L = 175 mm)
with hexagon nut M12, washer D = 24 , washer D = 18 and
O-ring 10x2
 - Disc wing nut
 - Disk D = 70
- O-ring 10x2 as replacement
- Operating instructions

① The vacuum pump required for the use of the device as well as the Core drilling machine and Core drilling stand must be procured additionally.

Kernlochbohrer GmbH offers an extensive range of machines, tools and accessories for the device. The webshop <http://www.kernlochbohrer.com> is available for information and ordering.

5 Use of the device

5.1 Specific precautions



The vacuum base plate may only be used to attach a core drill rig for wall or floor drilling.

The use of the vacuum base plate to attach a core drill rig to the ceiling is prohibited, as failure of the attachment could result in death or serious injury to the persons involved.

The vacuum base plate may only be used within the limits of its technical data (performance specifications, ambient conditions, etc.).



See chapter 3 "Technical data".

5.2 Optical inspection

Before working with the vacuum base plate, it must be visually inspected:

- Check general condition and cleanliness.
- Check that all components are present.
- Check that all screws are tight.
- Check the seal of the vacuum base plate for wear and damage.



The vacuum base plate must not be used if the seal is damaged!
Replace the seal or have it replaced!

5.3 Attaching the vacuum base plate and core drill rig



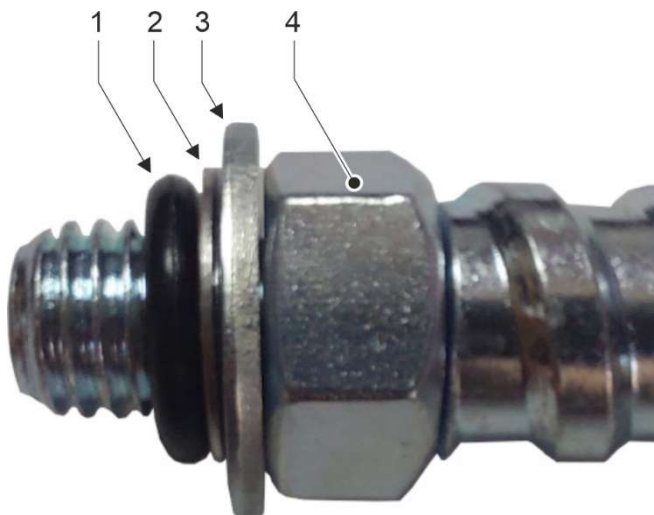
- 1 Core drill rig
- 2 Vacuum base plate
- 3 Vacuum hose
- 4 Vacuum pump

Auxiliary means:

- Ready-to-use vacuum pump with vacuum hose
- Core drill rig
- Round rod \varnothing 6 mm
- Open-end wrench SW 19 and SW 27

Procedure:

- The surface intended for mounting the vacuum base plate should be as flat, smooth and clean as possible.
- Vacuum base plate seal not worn or damaged.
- Prepare the cord threaded rod of the fastening set with hexagon nut M12, washer D = 24, washer D = 18 and O-ring 10x2. Carefully push the O-ring onto the thread!



- 1 O-ring 10x2
- 2 Disk D = 18
- 3 Disk D = 24
- 4 Hexagon nut M12

- Screw the cord threaded rod into the vacuum base plate, tighten with a round rod and lock with a hexagon nut. Ensure that the individual components are seated correctly!
- Close the ventilation valve of the vacuum base plate.
- Connect the vacuum hose of the vacuum pump to the hose connection of the vacuum base plate.

- ☒ Position the vacuum base plate at the drilling point.
For wall mounting: Hold the vacuum base plate in place continuously.
Ensure that the seal of the vacuum base plate has full-surface contact.
- ☒ Switch on the vacuum pump.
 - ↳ The vacuum generated by the vacuum pump draws the vacuum base plate to the mounting surface.
- ☒ Observe the increase in negative pressure on the vacuum pump pressure gauge.
When the negative pressure has reached the minimum value of 0.7 bar:
Check that the vacuum base plate is securely attached to the mounting surface.
- ☒ Place the core drill rig on the vacuum base plate so that the groove or hole in the base plate of the core drill rig is guided over the threaded rod.
- ☒ Attach the core drill rig to the vacuum base plate with washer D = 70 and disk wing nut. Tighten the disk wing nut with an open-end wrench SW 27.
- ☒ After installing the entire drilling system, check again that it is securely fastened.



If movements of the vacuum base plate or the drilling system occur during the drilling process:

Interrupt the drilling process immediately and hold the drilling system!

Check the fastening of the vacuum base plate and the core drill rig.

If the drilling system cannot be securely fastened with the vacuum base plate, it must be screwed to the drilling point.

5.4 Remove the vacuum base plate and core drill rig

Procedure:

- ☑ Drilling process completed.
- ☑ Core drilling machine removed from the core drilling rig.
- ☒ Hold the core drill rig firmly.
Remove the disk wing nut and washer and remove the core drill rig from the vacuum base plate.
- ☒ Switch off the vacuum pump and disconnect the vacuum hose from the vacuum base plate.
- ☒ Hold the vacuum base plate with one hand and open the ventilation valve with the other.
 - ↳ The space under the vacuum base plate is ventilated and the vacuum base plate can be removed.
- ☒ Clean the vacuum base plate to remove dust and dirt.
Use a damp cloth dipped in water mixed with a mild detergent.
- ☒ Allow the vacuum base plate to dry completely or allow it to dry.
- ☒ Check the vacuum base plate seal for wear and damage. Replace or have a worn or damaged seal replaced.
- ☒ Store the vacuum base plate in a dry, cool place protected from moisture and direct sunlight.
- ☒ Secure the vacuum base plate against unauthorized use.

6 EU Declaration of Conformity

The manufacturer/distributor

Kernlochbohrer GmbH
Geigersbühlweg 52
72663 Großbettlingen
Germany

hereby declares that the following product

Product description: **Vacuum base plate**

Type: **VGP-420/M-PRO**

was designed in accordance with Directive 2006/42/EU.

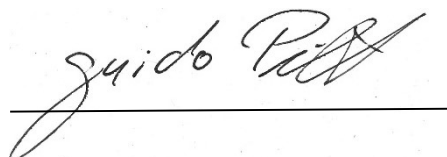
It is necessary that the components used together with the vacuum base plate, such as the vacuum pump, core drilling rig and core drilling machine, meet the requirements described in the Operating instructions for the vacuum base plate (e.g. drilling diameter, vacuum, weight).

Commissioning of the drilling system is prohibited until it has been established that all components to be connected to the vacuum base plate comply with the provisions of Directive 2006/42/EU (recognizable by the CE mark).

Name and address of the person authorized to compile the technical documentation:

Kernlochbohrer GmbH
Geigersbühlweg 52
72663 Großbettlingen
Germany

Großbettlingen 13.05.2024
Kernlochbohrer GmbH



Guido Pillat
Managing Director / Chief Executive Officer