



**KERNLOCHBOHRER**<sup>®</sup>  
PROFESSIONAL POWER TOOLS



# Operating instructions

**Diamond core drill**

**DKB-352/S-PRO DKB-502/S-PRO**

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## Introduction and description

The core drilling equipment of the DKB-PRO series is intended for professional use and may only be operated by instructed persons. Strictly adhere to the instructions in the operating manual to avoid electric shock or fire.

Our company declines all responsibility in the event of violations of the operating instructions that may result in injury or machine damage. In addition, all currently applicable regulations of the Accident Prevention Regulations (UVV) and the Employer's Liability Insurance Association (BG) must be observed.

In connection with the corresponding drill bits, the machine is intended for drilling concrete, stone and masonry in wet cutting. The machine may only be used in conjunction with the appropriate drill stand. It must be ensured that you select the correct drill bit for the corresponding drilling technique in each case.

The machine may only be serviced by persons who have the appropriate qualification and certification.

## About this guide

These operating instructions are for the model

DKB-352/S-PRO

DKB-502/S-PRO

Check the machine model against the nameplate.



## Thanks to the buyer

Thank you for purchasing a core drill of the DKB-PRO series from Kernlochbohrer GmbH. Please read the operating instructions carefully and observe the safety instructions. Through proper operation, you will fully appreciate the outstanding performance of our products. Keep this manual in a safe place for future reference.

If you have any questions regarding the operation of the core drill, please contact Core Drill GmbH directly. We are available to answer your questions at any time.

### **Note:**

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.

## Explanation of symbols



General Danger Warning. Failure to follow these safety precautions and instructions may result in electric shock, fire and/or serious injury.

## Safety regulations

- ❖ Read all precautions before start-up and keep the operating instructions. In addition, all currently applicable regulations of the Accident Prevention Regulations (UVV) and the Employer's Liability Insurance Association (BG) must be observed.
- ❖ Please follow the operating instructions carefully, as failure to follow these safety precautions and instructions may cause electric shock, fire and/or serious injury.

1. Keep your work area clean and well lit. Disorder or unlit work areas can lead to accidents.
2. Do not work with the power tool near flammable liquids, gases or dust. Power tools produce sparks that can ignite dust or fumes, causing explosions.
3. Keep children and other persons away while using the power tool. If you are distracted, you may lose control of the tool.
4. Be attentive, work with concentration and pay attention to what you are doing. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication. A moment of inattention can result in serious injury.
5. Wear suitable protective equipment and always protective goggles. Wearing suitable protective equipment such as a dust mask, non-slip safety shoes, hard hat or hearing protection reduces the risk of injury.



6. Avoid unintentional starting of the machine. Make sure that the power tool is switched off before connecting it to the power supply. If you have your finger on the switch when carrying the power tool or connect the machine to the power supply when it is switched on, this can lead to accidents.
7. Remove setting tools or wrenches before switching on the power tool. A tool or wrench that is on a rotating device can cause injury.

8. Avoid unusual postures. Ensure a secure footing and maintain your balance at all times. Do not work on a ladder. This will give you better control of the power tool in unexpected situations.
9. Wear appropriate clothing. Do not wear loose clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught by moving parts.
10. Do not overload the device. Use the appropriate power tool for your work. With the appropriate power tool, you will work better and more gently in the specified power range.
11. Do not use a power tool whose switch is damaged. A power tool that cannot be switched on and off is dangerous and must be repaired.
12. Unplug the power tool from the wall outlet before making any adjustments, replacing accessories, or setting aside the power tool. This safety measure prevents the power tool from starting unintentionally.
13. Keep unused power tools out of reach of children. Do not allow persons to use the device who are not familiar with it or have not read these instructions. Power tools are dangerous when used by inexperienced persons.
14. Note that the voltage must not exceed  $\pm 5\%$  of the nominal voltage. Higher voltages can cause irreparable damage. Note that higher voltage peaks are not generated when operating the machine via a generator.
15. The plug of the power tool must match the socket. Do not change the plug under any circumstances. Do not use adapter plugs with grounding-type forces. Unmodified plugs and matching outlets reduce the risk of electric shock.

16. Avoid body contact with grounded surfaces or grounded components such as pipes, radiators, stoves, and refrigerators.
17. Do not expose power tools to rain or wet conditions. Water entering a power tool increases the risk of electric shock.
18. Never use the cord to carry or pull the power tool or to unplug the power tool from the wall outlet. Keep it away from heat, oil, sharp edges or moving parts. Damaged, crushed or twisted cables increase the risk of electric shock.
19. When using a power tool outdoors, use only an extension cord that is suitable for outdoor use. Using a cord that is suitable for outdoor use reduces the risk of electric shock. When using with an extension cord, also make sure that the extension cord has the same cross-section as the cord on the machine.
20. The use of products such as cutters, grinders, drills that machine sand or other materials can generate dust and fumes that may contain hazardous chemicals. Check the type of material you are going to machine and use a suitable respirator.
21. Non-approved spare parts and any modification are prohibited on our products.
22. If the operation of a power tool in a damp environment is unavoidable, use a residual current circuit breaker. The use of a ground fault circuit interrupter reduces the risk of electric shock.
23. If a vacuum cleaner and suction device are required, make sure they are connected and used properly. The use of a vacuum cleaner can reduce dust-related hazards.

## Technical data

Model	DKB-352/S-PRO	DKB-502-/S-PRO
Art No.	6206	6211
Power	3300W	3500W
Voltage	230V	230V
Current	16A	16A
Weight	13.5kg / 13.7kg	14.0kg / 14.2kg
Frequency	50-60HZ	50-60HZ
Max drilling diameter With stand	402mm (1. Gang) 202mm (2. Gang) 102 mm (3. Gang)	502mm (1. Gang) 302mm (2. Gang) 162 mm (3. Gang)
Speed	350/700/1100 1/min	250/500/750 1/min
Spindle thread	1-1/4" UNC & G1/2"	1-1/4" UNC & G1/2"
Compatible stands	KBS-352/M-PRO	KBS-502/M-PRO
Packing dimension	650x460x215mm	650x460x215mm



# Product description

DKB-352/S-PRO and DKB-502/S-PRO



- |    |                            |    |                          |
|----|----------------------------|----|--------------------------|
| 1. | Display power range        | 5. | LED display              |
| 2. | Switch for gears 1 / 2 / 3 | 6. | On/Off switch            |
| 3. | Carbon brushes             | 7. | LED red and yellow light |
| 4. | Magnesium housing          |    |                          |

The LED display shows the current temperature, amperage (A), voltage (V), operating hours and warning indicators.

## Use and care

Only use diamond core bits which are in a sharp and undamaged condition. Properly maintained diamond core bits with sharp cutting segments do not become entangled so quickly and are easier to guide.

Use the power tool, accessories and drill bits etc. in accordance with these operating instructions, taking into account the working conditions and the work to be performed. Using the power tool for operations other than its intended use could result in a hazardous situation.

Have your power tool repaired only by qualified personnel and only with original spare parts.



## Precautions

1. ALWAYS wear hearing protection! When using drilling motors, the loud drilling noise in the working area can cause hearing damage.
2. When drilling, keep a sufficient distance to the core drill and do not touch any rotating parts. Protect the danger zone and keep children and other persons away from it. Falling and splashing parts can cause injuries.
3. This diamond core drill is intended for professional use only and may only be operated by trained personnel. The appropriate use of the core drill includes drilling rock, reinforced concrete and masonry.
4. The drill motor must be checked regularly (approx. every 6 months) by a certified electrician in accordance with VDE.
5. When used for overhead drilling, a functional water collection ring must be used. Make sure that no water can get into the motor.
6. Switch off the core drill immediately if it stops for any reason. After you have determined and eliminated the cause and performed a visual inspection of the device and core bit, the core drill can be restarted.

## Preparation

Subject the core drill to a brief visual inspection before each start. Also check whether the network voltage corresponds to the voltage specified on the nameplate of the tool.

## Mounting and assembly of drill motor and stand

Make sure that the core drill rig is not attached to the drill stand before mounting the drill stand.

The DKB-352/S-PRO and DKB- 502/S-PRO core drilling machines may only be operated with a core drill rig. Before inserting the drill motor into the drill stand, the adapter plate must be attached to the drill motor. For this purpose, use the 4 M-8 Allen screws as well as the key provided.



Should you use our vacuum base plate VGP-420/PRO to fix the core drill rig, make sure that the vacuum is at least -0.8bar and also make sure that the seal is not worn or damaged.

Use an impact anchor together with a disk wing nut and a cord threaded rod (optional fastening set) to fasten the drill stand to the substrate. The disk wing nut should be placed in the center of the drill stand. After mounting, adjust the 4 leveling screws on the drill stand to achieve a good leveling position. You can do this with the aid of the level on the drill stand.



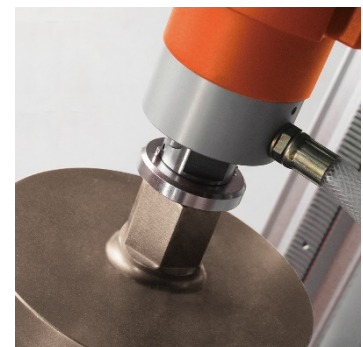
A water collection ring is strongly recommended for wet wells.

## Changing drill bits

A diamond core bit is a cylinder which is equipped with brazed or laser welded segments. There are 2 types of diamond core bits, wet drill bits and dry drill bits. These usually have a 1 1/4UNC or an M16 female threaded connection. Our DKB-352/S-PRO and DKB-502/S-PRO core drills can only perform wet drilling. The drive spindles all have a 1 1/4UNC external and a G1/2 internal thread connection.

For easier removal of the drill bit, you can apply waterproof grease to the spindle thread of the machine.

To mount a drill bit on the core drill, simply screw it onto the drill spindle. With the aid of our supplied "quick-change ring", you can loosen the core bit more easily. Optionally, you can use a copper ring for this purpose.



Make sure that you have disconnected the mains plug from the mains before changing drill bits or removing them.

The core drill and the drill bit are relatively heavy. For this reason, always wear protective gloves to prevent the sharp tool from injuring your hand.

To change the drill bit, use a 32mm wrench on the drill spindle and a 41mm wrench on the drill bit at the same time.



Adapters are available as accessories for drills with different internal threads.

After mounting the drill on the machine, run it briefly and check the radial runout of the drill bit.

## **Drill and machine cooling**

The gearbox of the drill motor has splash lubrication for cooling.

The diamond segments of the wet core bit are cooled with water.

The electric motor is air-cooled.

## **Electrical connection**

To reduce the risk of electric shock and to protect the operator, the DKB-352/S-PRO and DKB-502/S-PRO core drill must only be operated via a Portable Residual Current Device, or PRCD personal circuit breaker.

After connecting to the power supply, first press the "RESET" button on the PRCD circuit breaker to energize the circuit to the core drill. In the event of a voltage drop, the PRCD circuit breaker switches off and must be switched on again as soon as the power supply is restored. The fault current at which the PRCD circuit breaker switches off is 10mA.



Never place or put the PRCD circuit breaker in water. Before starting work, check for proper operation by pressing the TEST button on the PRCD circuit breaker. Never operate the core drill directly from the mains power source without a PRCD circuit breaker.

## **Water supply connection**

To connect the water supply, attach the quick coupling to a water hose. Use only clean water. The use of water that is contaminated accelerates the process of wear of the water sealing ring.

The maximum water pressure must not exceed 3 bar.

The water serves as a coolant to prevent the drill from heating up excessively during drilling.

Dust and particles formed during drilling can clog the water supply system. If necessary, this must be checked and cleaned.

Optionally, a GARDENA plug can be used to connect a water hose directly or to connect to a water tank with sufficient water pressure.

Never allow water to enter the motor. It could lead to an electric shock.

There is a water seal between the housing and the drill spindle on the DKB-352/S-PRO and DKB-502/S-PRO models. If water leaks from this seal, it must be replaced immediately.

## Speed selection

The DKB-352/S-PRO and the DKB-502/S-PRO is equipped with a mechanical 3-speed oil bath gearbox.

Select the speed according to the drill diameter (see Technical data p.8).

Speed selection or gear change may only be performed when the core drill is switched off. Turn the gear selector either clockwise or counterclockwise to the desired position until it is engaged. If necessary, turn the drill spindle slightly with a wrench to facilitate the speed change. In this case, disconnect the machine from the power supply beforehand.



The maximum diameter and speeds indicated on the nameplate are based on an average concrete hardness. The speed varies depending on the hardness of the material. For reinforced concrete, please select a low gear to reduce the speed.

# Drilling

Always switch on the machine without load.

After switching on, next open the water line valve.

When water flows out of the center of the drill, you can carefully start drilling.

Increase the feed pressure once the depth of cut reaches about 10mm.

Always keep an eye on the condition of the drill motor. If you notice that it starts to smoke slightly or you notice the smell of an electric motor, relieve the core drill by withdrawing it from the core hole. Then continue drilling slowly and carefully. In this way, you prevent the carbon brushes from burning off due to a prolonged overload of the electric motor.

When you have almost reached the end of the through hole, please reduce the feed pressure at this point until the drill bit exits at the other side.

There are vertical drill holes and angle drill holes. For angle drilling, use the angle adjustment function of the drill stand.

If you have selected too high a speed when drilling or you are working with too high a feed pressure, this can cause the drill bit to jam.

If, during the drilling process, you notice that the feed rate decreases while the force remains the same and the water coming out of the borehole is clear and has some metal splinters, you have encountered rebar. Reduce the pressure on the drill bit to cut through this easily. You can increase the pressure again once you have cut through the rebar. If wooden beams, thick asphalt or bitumen are cut, this increases the power supply. In this case, reduce the feed rate to drill further.

If you need to drill deeper than the effective length of your drill allows, a drill extension can be used as an option.



## Mechanical overload protection

This machine is equipped with a mechanical slip clutch to protect the operator and the machine from excessive torque forces. If the drill suddenly jams in the hole, the safety clutch disengages and the drill spindle stops.

Make sure that the load on the clutch does not exceed max. 3-4 seconds. Unload the machine immediately. Otherwise, the high wear may destroy the safety coupling. Do not continue drilling if the slipping clutch has been triggered, reduce the feed rate immediately and wait until the drill bit has reached the desired speed again.



### Caution!

A worn clutch must be replaced immediately by a specialist at an authorized workshop. Working with a worn slipping clutch can lead to serious injuries.

## Electronic overload protection

There are 2 LED indicators on both our handheld drill motors and our pedestal mount drill motor. If the core drill is in an overload condition, the red LED will illuminate to indicate to the operator that maximum power has been reached. Immediately reduce the feed rate until the red LED goes out.



In addition to the display of the power range, the DKB-352/S-PRO and DKB-502/S-PRO is equipped with an LCD display. Among other things, the amperage is displayed in real time. As soon as the core drill enters an overload condition, the overcurrent symbol and the ALARM warning light up on the display together with the red LED light at the bottom.



If the core drill is in an overload condition for any length of time, the machine will shut down for self-protection and the red LED will remain illuminated. Disconnect the machine from the power supply. Carry out a visual inspection of the machine.

There are 4 lights above the display that indicate the power range in which drilling can be performed optimally.

## Overvoltage protection

The drill motor can absorb short-term voltage peaks of up to max. 260V. Higher voltages can cause irreparable damage. Please note that if the machine is operated with a generator, they do not exceed the maximum specified value.

If the overvoltage protection trips when operating the DKB-352/S-PRO and DKB-502/S-PRO core drill, please check the power source and change it if necessary.

The LCD display of the DKB-352/S-PRO and DKB-502/S-PRO shows, among other things, the voltage in real time. When the motor is in overvoltage condition, the overvoltage symbol lights up on the display together with the ALARM warning. The machine shuts down or cannot be started.

## **Overheating - Thermal protection**

If the temperature of the drill motor becomes too high, the built-in thermal protection switch in the machine responds. At the same time, the yellow LED light illuminates and the motor switches off. If this happens, do not restart the motor immediately. Always allow the motor to cool down first for approx. 2-3 min.

The LCD display of the DKB-352/S-PRO and DKB-502/S-PRO shows, among other things, the temperature in real time. If the motor overheats and the max. working temperature is reached, the heat-up symbol lights up on the display together with the ALARM warning.

## **Carbon brush warning system**

As soon as the carbon brushes have reached the end of their service life, the core drill stops automatically to protect the motor from further damage.

The carbon brush warning system consists of 2 LED lights with one red and one yellow LED. If both the red and yellow lights are on at the same time, you should check the carbon brushes and replace them if necessary. Remember, always replace them in pairs.

## Daily maintenance of the power tool

1. Check that all screws and nuts are well tightened.
2. Check that the water seals are intact.
3. Check if the gearbox is tight or if oil is leaking.
4. Check if the PRCD circuit breaker is working properly.
5. Always keep all accessories and the machine clean and dry.
6. Pay attention to the carbon brushes. If they have reached the end of their service life and/or both LED lights are on, replace them immediately. To replace them, first remove the cover of the carbon brush holder and pull the carbon brush out of the holder. Then insert a new one and close the cover again. Repeat the procedure with the other carbon brush on the opposite side of the core drill.
7. Check the condition of the gear oil after the gear unit has reached approx. 300 working hours. If the gear oil is heavily contaminated, have the gear oil replaced immediately by an authorized service center.
8. After finishing the work, remove the drill bit and then clean the entire machine. Do not forget to lubricate the spindle thread. Keep the power tool out of reach of children and in a dry environment.
9. Insulation resistance measurement. Use a 500V ohmmeter to measure the insulation resistance between L1 (phase), N (neutral) and the housing. The value must not be less than 7 MΩ.

## Maintenance and inspection plan

Regular inspection according to the maintenance and inspection schedule is urgently required. Shorten the intervals between maintenance if you use the product very frequently.

Maintenance points (regular inspection required)	Each time before use	In the first month or after 25 working hours	In the third month or after 50 hours of work	Every year or after 200 working hours
Leakage from the gearbox seal	√	√	√	√
Leakage from the water seals	√	√	√	√
Mains cable Visual inspection	√	√	√	√
PRCD circuit breaker	√	√	√	√
General function test	-	-	√	√
Concentricity of the drilling spindle	√	√	√	√
Abrasion on the drill spindle	-	-	√	√
Mains switch Function test	√	√	√	√
Drill spindle lubrication	√	√	√	√
Check the water valve for free movement	√	√	√	√
Nuts and bolts	-	-	-	√
Carbon brushes	-	-	-	√
Gear oil	-	-	-	√

# Troubleshooting

If a defect occurs during operation of the core drill, contact a nearby service station or Kernlochbohrer GmbH immediately. Never disassemble the power tool yourself.

Electrical components such as the rotor stator, circuit board, power cable, plug or PRCD circuit breaker, etc. may only be checked and repaired by a certified electrician in accordance with VDE.

Malfunction	Possible cause	Troubleshooting
Drill motor does not work	<p>Mains power supply interrupted or plug not inserted correctly.</p> <p>PRCD is not reset or loose contact on PRCD.</p> <p>Power cord or switch damaged.</p> <p>Rotor stator damaged.</p> <p>Loose contact on carbon brush or brushes are worn.</p>	<p>Plug in another electrical appliance and check the function or check the plug connection.</p> <p>Press the RESET button on the PRCD or replace it.</p> <p>Have it checked and, if necessary, replaced by a qualified electrician.</p> <p>Have them checked and, if necessary, replaced by a qualified electrician.</p> <p>Check if the length of the brush is shorter than 6 mm, replace if necessary.</p>
Leakage from the water seals	Worn water seals	Replace water seals

<p>Drill stuck or jammed</p>	<p>The gears are not engaged or disengaged properly.</p> <p>Slipping clutch worn.</p> <p>High steel content in concrete or very hard material.</p> <p>Gearbox damaged.</p>	<p>Selector lever is not engaged when turned. Turn it to the desired position until it engages.</p> <p>Have clutch friction discs replaced.</p> <p>After switching off the machine, adjust the position of the drill bit slightly with a wrench and tap the tube carefully and gently with a mallet handle until the stuck drill core loosens. Slowly pull out the drill bit and restart the drill.</p> <p>Have the gearbox replaced by a specialist.</p>
<p>Drilling speed is much too slow</p>	<p>End of drill life or segments are not in good condition or broken out.</p> <p>Too much water flow will cause the segments to cut inefficiently.</p> <p>Drill is blunt.</p> <p>High proportion of steel in the concrete or hard drilling material</p> <p>Drilling angle has become misaligned.</p>	<p>Check the drill and the segments and replace them if necessary.</p> <p>Turn down the water valve and reduce the water pressure to decrease the water flow.</p> <p>Re-sharpen the segments.</p> <p>Reduce the pressure on the drill to cut through the steel. Increase it again when it has cut through.</p> <p>Realign the drill angle so that the drill is perpendicular to the cutting surface.</p>
<p>Drilling spindle wobbles</p>	<p>Drilling spindle is worn</p>	<p>Check if the spindle is worn and replace it if necessary</p>

<p>Flying sparks on the collector</p>	<p>There is a short circuit or an interruption at the rotor coil.</p> <p>Loss of effectiveness or loose contact on the carbon brush spring.</p> <p>The commutator is worn out.</p>	<p>Have the rotor checked and replaced if necessary.</p> <p>Clean the spring or adjust its pressure or replace the carbon brushes if necessary.</p> <p>Replace the rotor with a new one.</p>
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## Environmental protection

### Raw material recovery instead of waste disposal!

To avoid transport damage, the device must be delivered in sturdy packaging. Packaging as well as the device and accessories are made of recyclable materials.

The plastic parts of the device are marked according to the material. This enables environmentally compatible, sorted disposal via the collection facilities offered.

#### For EU countries only

Do not dispose of power tools in household waste! According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, used power tools must be collected separately and recycled in an environmentally friendly manner.



## Noise/Vibration

The noise of this power tool is measured according to DIN 45 635, part 21. The sound pressure level at the workplace can exceed 85dB (A); in this case, sound protection measures for the operator are required.

### Wear hearing protection!



Hand/arm vibration is typically lower than 2.5m/s<sup>2</sup>. Measured values determined according to EN 61 029.

The specified vibration level represents the actual applications of the power tool. However, if the power tool is used for other applications, with deviating application tools or insufficient maintenance, the vibration level may deviate. This can significantly increase the vibration load over the entire working period.

For an accurate estimation of the vibration load, the times when the unit is switched off or running but not actually in use should also be taken into account. This can significantly reduce the vibration exposure over the entire work period.

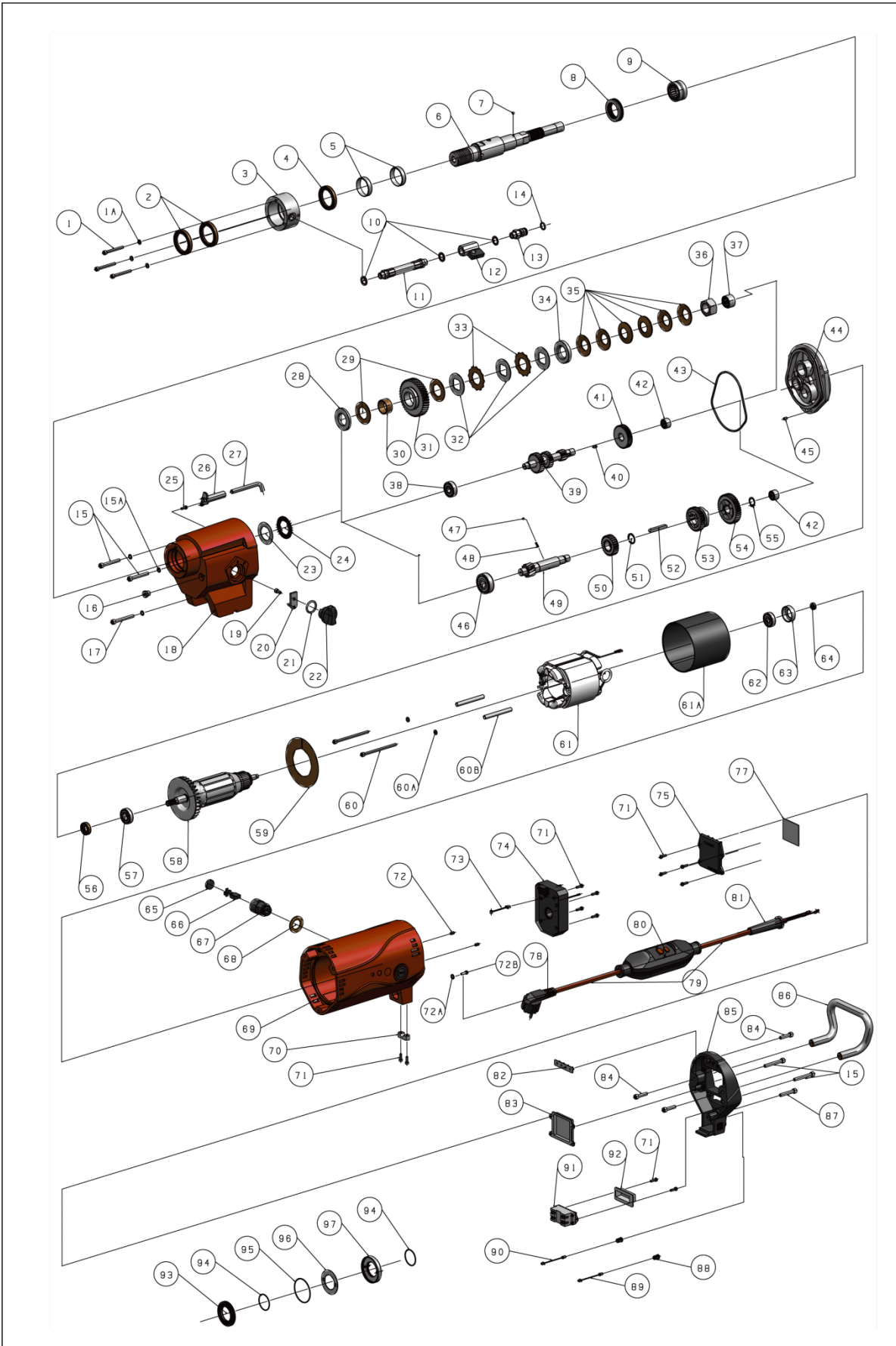
Establish additional safety measures to protect the operator from the effects of vibration, such as: Maintenance of power tool and insert tools, keeping hands warm, organization of work procedures.

## Warranty

In accordance with our general terms and conditions of delivery, a warranty period for material defects of 12 months applies in business transactions with companies (proof by invoice or delivery bill). Damage caused by natural wear and tear, overloading or improper handling shall remain excluded from this. Damage caused by material or manufacturer defects will be remedied free of charge by repair or replacement. Complaints can only be accepted if the unit is sent to the supplier unassembled. Wear parts, such as rotor-stator, printed circuit board, bearings, water seals, oil seals, etc. are not covered.

# Exploded view

DKB-352/S-PRO and DKB-502/S-PRO



No.	Designation	Quantity	No.	Designation	Quantity
1	Hexagon bolt M5x45	3		Spur gear Z27-M1.5	1
1A	Flat dial (Φ5xΦ9x1)	3	51	Constant part ring D20	1
2	Skeleton oil seal ring AS40x52x7	2	52	Key 6x6x45	1
3	Water collection ring	1	53	Pinion Z32-M1.5	1
4	Oil seal AS40x52x7	1	54	Stirred Z40-M1.5	1
5	What erring shaft sleeve Φ38xΦ40x10	2	55	Outside Φ16x1	1
6	Spindle shaft	1	56	Rotary shaft seal AS15x26x7	1
7	Steel ball 3/16"(Φ4.762)	1	57	Deep groove ball bearing 6002Z(Φ15xΦ32x9)	1
8	Axial bearing	1	58	Rotor unit (230V or 120V)	1
9	Needle bearing NK30/20	1	59	Air conductor	1
10	Washer for mounting BS/AI2.7 (12.7x19x1.5)	3	60	Hexagon bolt M5x90	2
11	Hose G1/4"	1	60A	Washer 5.3	2
12	Water valve switch G1/4"	1	60B	M5 Insulating bush	2
13	Water valve coupling G1/4"	1	61	Stator cpl.(230V)	1
14	O-Ring (Φ16xΦ3,1)	4			
15	Hexagon bolt M6x45	4	61A	Stator insulating bushing	1
15A	Flat nose pliers (Φ6xΦ10x1)	3	62	Deep groove ball bearing 6200Z(Φ30xΦ30x9)	1
16	Oil plug with gasket M10x1	1	63	Rubber ring	1
17	Hexagon bolt M6x50 with washer (Φ6xΦ10x1)	1	64	Magnetic ring(Φ14xΦ7x5,5)Class2	1
18	Gearbox housing	1	65	Carbon brush cover	2
19	Hexagon bolt M5x10	1	66	Carbon brush	2
20	Gear stick	1	67	Carbon brush holder	2
21	O-ring (Φ6xΦ3)	1	68	Insulating washer	2
22	Selector lever	1	69	Motor housing	1
23	Thrust washer AS3047	1	70	Cable clamp	1
24	Axial needle roller bearing NTB3047	1	71	Hexagon socket screw M4x12	12
25	Hexagon bolt M4x10	1	72	Grub screw with cone point M5x10	2
26	Oil spray nozzle body	1	72A	Serrated lock washers external teeth M4	1
27	Oil spray nozzle Φ8x1	2	72B	Phillips half round head screw M4x6	1
28	Support washer (Φ26.1xΦ47x5)	1	73	Temperature sensor cable	1
29	Copper friction disc (Φ26,4xΦ47x1,5)	2	74	Motor circuit board(230V)	1
30	Copper gear sleeve (Φ26xΦ30x15)	1			
31	Spindle helical gearbox Z42 -M1,75-Right -hand	1	75	LCD CIRCUIT BOARD(230V)	1
32	Thrust washer (Φ26,25xΦ47x1,5)	2			
33	Clutch disc (Φ26,4xΦ51,3x1,5)	2	77	LCD protection film	1
34	Thrust ring (Φ26,1xΦ47x7,3)	1	78	Mains plug (230v)	1

35	Belleville washer	6			
36	Hexagon nut M22xP1.5 Class 10	1	79	Mains cable (230V/3x1,5)	2
37	Drawn cup needle roller bearings HK2016 (Φ20xΦ26x16)	1			
38	Deep groove ball bearing 6201Z (Φ12xΦ32x10)	1	80	PRCD(230V)	1
39	Ritzelwelle (M1,5/Z25-M1,5/Z20-M1,5/Z12)	1			
40	Key 4x4x10	1	81	Power cable gland	1
41	Helical gear Z35-M1.25 (DMP-352)	1	82	Power indicator cover	1
	Helical gear Z45-M1.25 (DMP-500)	1	83	LCD cover	1
42	Drawn cup needle roller bearings HK1412 (Φ14xΦ20x12)	2	84	Hexagon head screw M6x25	3
43	O ring (Φ114xΦ3.1)	1	85	Motor tail cover	1
44	Gearbox cover plate	1	86	Motor handle	2
45	Clamping pin Φ5x8	1	87	Hexagon bolt M6x35	1
46	Deep groove ball bearing 6302Z (Φ15xΦ42x13)	1	88	LED socket	2
47	Steel ball 5/32" (Φ3,969)	2	89	Red LED	1
48	Compression spring (Φ3,9xΦ0,6x22,5)	1	90	Yellow LED	1
49	Gearshift shaft (Z12-M1.75-Left)	1	91	Switch	1
50	Stirred Z27-M1.5	1	92	Switch collar	1
51	Constant part ringΦ20	1	93	Anti-Loss Clamp	1
52	Key 6x6x45	1	94	O-Ring(Φ32xΦ1,5)	2
53	Pinion Z32-M1.5	1	95	O-Ring(Φ49xΦ1,5)	1
54	Stirred Z40-M1.5	1	96	Anti-losing washer	1
55	Outside Φ16x1	1	97	Anti-losing socket	1

# EC Declaration of Conformity

The manufacturer/marketer  
Kernlochbohrer GmbH  
Geigersbühlweg 52  
72663 Großbettlingen  
hereby declares that the following product

Product name: Core drill

Type: DKB-202/H-PRO,  
DKB-202/P-PRO,  
DKB-352/S-PRO,  
DKB-502/P-PRO

complies with all relevant provisions of the applied legal regulations (hereinafter) - including their amendments in force at the time of the declaration. The sole responsibility for issuing this declaration of conformity lies with the manufacturer. This declaration refers only to the machine in the condition in which it was placed on the market; parts added and/or interventions made subsequently by the end user are not taken into account.

The following legislation has been applied:  
Machinery Directive 2006/42/EG  
EMC Directive 2014/30/EU

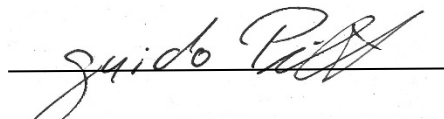
The following harmonized standards have been applied:

EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
EN 60745-1:2015	Hand-held motor-operated electric tools Safety - Part 1: General requirements
EN 60745-2-1:2010	Hand-held motor-operated electric tools Safety - Part 2-1: Particular requirements for drills and impact drills
EN 55014-1:2006 +A2:2011 Emission limits	Electromagnetic compatibility - Requirements for Household appliances, power tools and similar electrical equipment - Part 1:  Part 1: Emission of interference
EN 55014-2:1997	Electromagnetic compatibility - Requirements for +A2:2008 Electric power tools and similar apparatus Part 2: Immunity - Product family standard
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic currents
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current $\leq 16$ A per phase and not subject to a special connection condition

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

Kernlochbohrer GmbH  
Geigersbühlweg 52  
72663 Großbettlingen

Location: Großbettlingen  
Date: 17.05.2023

  
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Guido Pillat, Chief Executive Officer