

**DK26, DK28, DK32, DK34**

OPERATING INSTRUCTIONS.....4

**WEKA Elektrowerkzeuge**

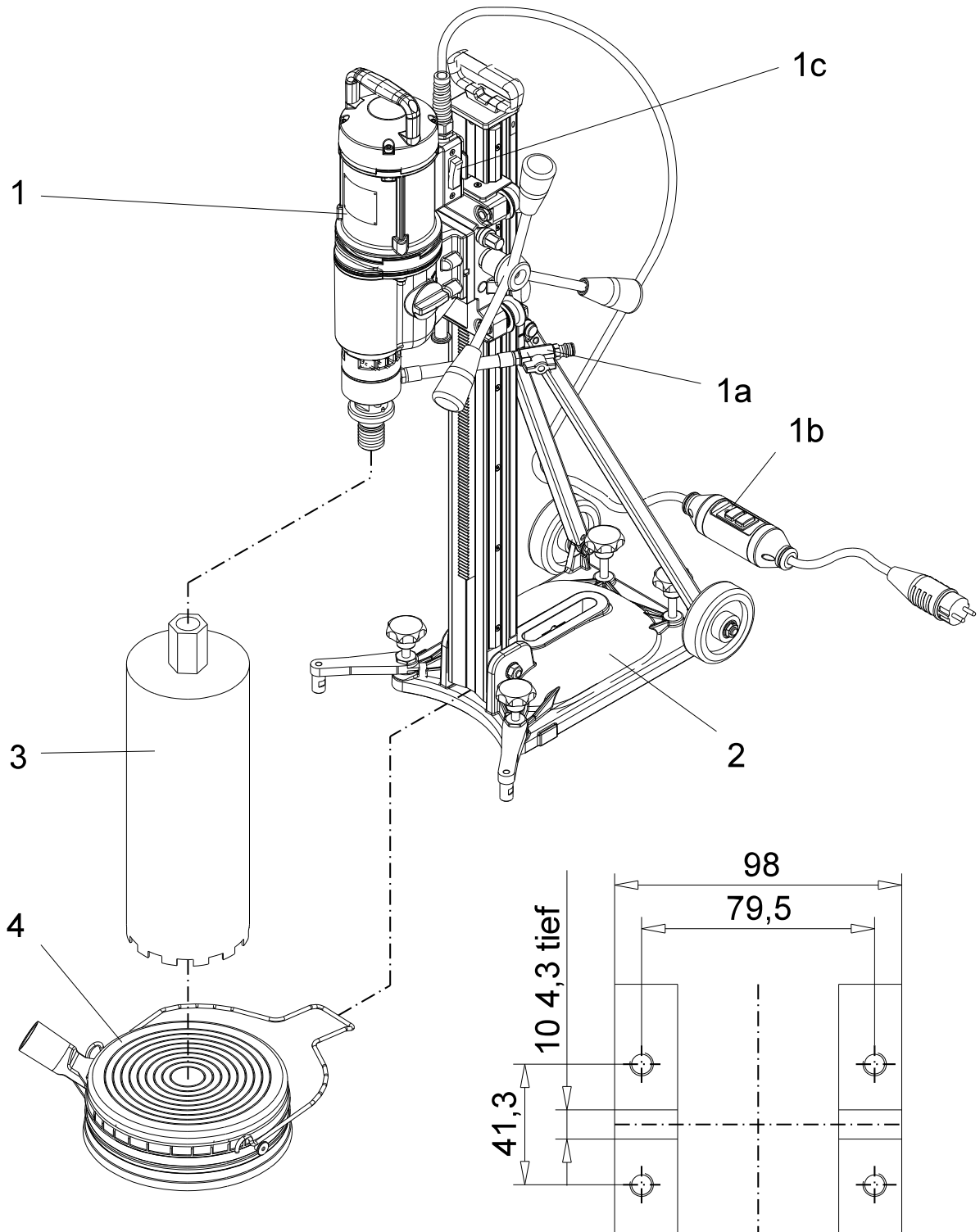
Auf der Höhe 20, D 75387 Neubulach

Telephone: +49 7053 96816-0, Telefax: +49 7053 3138

Internet: [www.weka-elektrowerkzeuge.de](http://www.weka-elektrowerkzeuge.de)

Email: [weka@weka-elektrowerkzeuge.de](mailto:weka@weka-elektrowerkzeuge.de)

# DK26, DK28, DK32, DK34



Maße - Getriebefuß

# SYMBOLS

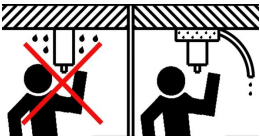
## Auf der Maschine - On the machine



Betriebsanleitung vor Inbetriebnahme sorgfältig durchlesen!  
Please read operators manual carefully before putting the machine into operation!  
Notice d'utilisation à lire attentivement avant la mise en service de la machine!  
Leggere la manuale di istruzioni con attenzione prima dell'utilizzo della macchina!  
¡Estas instrucciones se deben leer atentamente antes de poner en marcha la máquina!  
Voor de ingebruikneming gebruiksaanwijzing a.u.b. zorgvuldig doorlezen!  
Læs betjeningsvejledningen omhyggeligt inden maskinen tages i drift!  
Läs noggrannat igenom denna anvisning innan maskinen tas i bruk!  
Les nøye gjennom instruksjonen i denne manualen!  
Lue tarkasti tämä ohje ennen koneen käyttöönottoa!  
Instrukcja obsługi, prosimy dokładnie przeczytać przed uruchomieniem maszyny!  
Перед вводом в эксплуатацию внимательно прочесть справочник по эксплуатации!  
Před uvedením do provozu si pozorně přečtěte návod k obsluze!



Tragen Sie beim Arbeiten mit dieser Maschine einen Gehörschutz.  
Wear ear protection when working with this machine.  
Portez un protège-oreilles lorsque vous travaillez avec cette machine.  
Durante il lavoro con questa macchina indossate una protezione dell'udito.  
Utilice una protección de los oídos durante los trabajos con la máquina.  
Draag bij het werken met deze machine gehoorbescherming.  
Husk at bruge lyddæmpende ørebeskyttelse hvis De arbejder med maskinen.  
Använd hörselskydd vid användning av denna maskin.  
Bruk hørselsvern ved bruk av maskinen.  
Koneen kanssa työskennellessä on aina käytettävä kuulosuojaimia.  
Podczas wykonywania prac za pomocą tego urządzenia nosić środki ochrony słuchu.  
При работе с этими машинами используйте противозумные наушники.  
Při práci na tomto stroji používejte ochranu sluchu.



Überkopfboren nur mit geeigneter Wasserfangeinrichtung.  
Overhead drilling only with appropriate water-collecting ring.  
Perçage au-dessus de la tête uniquement avec des collecteur d'eau.  
Trapanazione sopratesta deve essere effettuata solo con dispositivo di raccolta dell'acqua.  
Perforación de techos solamente se debe efectuar con instalación de recolección de agua.  
Alleen bovenhands booren met geschikte wateropvangvoorziening.  
Boring over hovedet må kun foretages med egnede indretning til opfangning af vand.  
Borring över huvudet får ske endast med vattensamlingsanordning.  
Over hodet kjerneboring må kun utføres med egnet vannsamlingsring.  
Yli pään poraus on oltava oikeat vedenkeräilylaitte.  
Wiercenie nad głową można wykonywać wyłącznie z odpowiednimi urządzenie do wyłapywania wody.  
Вертикальное бурение «вверх через голову» только при соответствующем оснащении для водосбора.  
Při řezání ve výškách nad hlavou používejte vhodné zařízení k odsávání vody.



Dieses Produkt entspricht den geltenden EU Richtlinien.  
This product is in accordance with applicable EC directives.  
Ce produit est conforme aux directives CE en vigueur.  
Il presente prodotto è conforme alle vigenti direttive CEE.  
Este producto cumple con la directiva CE vigente.  
Dit product voldoet aan de geldende CE richtlijnen.  
Dette produkt er i overensstemmelse med gældende CE-direktiv.  
Denna produkt överensstämmer med gällande EG-direktiv.  
Dette produktet er i overensstemmelse med EU direktiver.  
Tämä tuote täyttää voimassa olevan Cedirektiivin vaatimukset.  
Produkt ten jest zgodny z odpowiednimi dyrektywami EC.  
Этот продукт соответствует действующим директивам ЕС.  
Tento výrobek odpovídá platným směrnicím EU.

### In der Bedienungsanleitung - In the operators manual



Sicherheitshinweis, bitte besonders beachten!  
Security advise, please take special care!  
Instruction de sécurité, à respecter particulièrement, s'il vous plait!  
Indicazione di sicurezza, considerare specialmente, per favore!  
Estas llamadas de atención se deben atender especialmente!  
Gelieve veiligheidsvoorschrift aandachtig te bestuderen!  
Sikkerhedsanvisning. Udvis størst mulige forsigtighed!  
Säkerhetsförslag, var extra försiktig!  
For din egen sikkerhet, vennligst vær ekstra forsiktig!  
Turvallisuuohje, ole hyvä ja noudata erityistä huolellisuutta!  
Wskazówka bezpieczeństwa, prosimy zachować szczególną ostrożność!  
Уделить особое внимание указаниям по технике безопасности!  
Bezpečnostní pokyny – dodržujte mimořádně pozorně!

# EN OPERATING INSTRUCTIONS - DIAMOND CORE DRILL DK26, DK28, DK32, DK34

Please read these instructions carefully before starting up the machine!

In the WEKA diamond core drilling machine you have an outstanding quality product with which you will be very satisfied, provided you use it properly.

## 1. GENERAL SAFETY PRECAUTIONS



**WARNING! Read all safety precautions and instructions.** Failures in the compliance with these safety precautions and instructions can cause electric shock, fire and/or heavy injuries.

Please keep these safety precautions and instructions for the future.

The term “electric tool” used in the safety precautions corresponds to mains operated electric tools (with mains cord) and to battery operated electric tools (without mains cord).

### 1) Security of employment

- a) **Keep your working area clean and well illuminated.** Disorder or unilluminated working areas can cause accidents.
- b) **Do not work in explosive ambiances with the electric tool, in which there are flammable liquid, gases or dusts.** Electric tools generate sparks which can inflame the dust or vapors.
- c) **Keep children and other persons away from the electric tool while using it.** When being distracted, you can lose the control on the device.

### 2) Electrical safety

- a) **The mains plug of the electric tool must fit into the socket. The plug must not be changed in any kind. Do not use adapter plugs together with earthed electric tools.** Unmodified plugs and fitting sockets reduce the risk of electric shock.
- b) **Avoid body contact with earthed surfaces, like tubes, heatings, cookers and fridges.** There is a higher risk of electric shock when your body is earthed.
- c) **Keep your electric tool away from rain or wetness.** The infiltration of water into an electric tool increases the risk of an electric shock.
- d) **Do not divert the cord from its intended use from carrying or hanging up the electric tool, or for pulling the plugs from the socket. Keep the cord away from heat, oil, sharp edges or moving device parts.** Damaged or tangled cords increase the risk of an electric shock.
- e) **If you work outside with your electric tool, only use extension cords that are appropriate for outside use.** The use of a extension cord which is appropriate for outside use reduces the risk of an electric shock.
- f) **If the use of the electric tool in humid areas is inevitable, use a ground fault circuit interrupter (GFCI).** The use of a GFCI reduces the risk of an electric shock.

### 3) Personal safety

- a) **Be attentive, pay attention to what you do and go to work with the electric tool with reason. Do not use an electric tool when you are tired or under the influence of drugs, alcohol or pharmaceuticals.** One moment of carelessness while using an electric tool kann cause serious injuries.
- b) **Wear personal protective equipment and always goggles.** The wearing of personal protective equipment, like dust mask, skid-proof shoes, protection helmet or hearing protection, depending on the kind and use of the electric tool reduces the risk of injuries.
- c) **Avoid unintended start up. Make sure that the electric tool is switched off before connecting it to the mains and/or the battery, picking it up or carrying it.** When you have your finger on the switch while carrying the electric tool or connect the device to the mains when it is switched on, this can cause accidents.
- d) **Remove adjusting tools or wrenches before switching on the electric tool.** A tool or wrench which is located on a turning device can cause injuries.
- e) **Avoid abnormal posture. Care for safe standing and keep the balance anytime. Do not work on a ladder.** Thus you can control the electric tool better in unexpected

situations.

- f) **Wear suitable clothing. Do not wear wide clothing or jewelry. Keep hair, clothing and gloves away from moving parts.** Wide clothing, jewelry or long hair can be caught by moving parts.
- g) **If there is the possibility to assemble a dust exhauster and collecting device, make sure that these are connected and used correctly.** The use of a dust exhauster can reduce dangers by dust.
- h) **Do not fall in false sense of security due to familiarity with the electric power tool after frequent use and do not disregard the safety requirements of electric power tools.** Careless behaviour can cause severe injury within fractions of a second.

#### 4) Use and handling of the electric tool

- a) **Do not overload the device. Use the appropriate electric tool for your work.** With the appropriate electric tool you work better and saver in the declared range of performance.
- b) **Do not use an electric tool whose switch is damaged.** An electric tool which can not be switched on and off is dangerous and has to be repaired.
- c) **Unplug the plug from the socket and/or remove the battery before carrying out instrument settings, exchanging accessories or put the device aside.** This safety measure avoids the unintended start of the electric tool.
- d) **Keep unused electric 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.** Electric tools are dangerous if they are used by inexperienced persons.
- e) **Maintain electric tools with care. Check if movable parts function correctly and do not jam, if parts are broken or damaged in that way, that the function of the electric tool affected. Have damaged parts repaired before using the device.** Many accidents originate from bad maintained electric tools.
- f) **Keep the cutting tool sharp and clean.** Carefully maintained cutting tools with sharp edges do jam less and are easier to guide.
- g) **Use electric tool, accessory, operation tools, etc. according to these instructions. Thereby consider the conditions of employment and the work to be done.** The use of electric tools for others than the intended task can result in dangerous situations.
- h) **Keep handles and grip surfaces dry, clean and free of oil and fat.** Slippery handles and grip surfaces do not allow a safe use and control of the electric power tool in unforeseen situations.

#### 5) Service

- a) **Have your tool only repaired by qualified personnel and only with original spare parts.** Thus it is assured that the safety of the electric tool is being obtained.

#### 6) Safety precautions for drilling machines

- a) **If water is required for drilling drain off the water from the working area or use a water collecting system.** These precautions keep the working area dry and reduce the risk of an electric shock.
- b) **Operate the electric power tool at the insulated handle surfaces if the cutting tool can hit hidden current lines or the own power cable of the electric power tool.** Contact between the cutting tool and a live cable can apply voltage to metal parts of the electric power tool an cause an electric shock.
- c) **Wear hearing protection while using drilling machines.** The effect of noise can cause hearing loss.
- d) **If the cutting tool blocks, stop the feed and switch off the electric power tool.** Check the reason of blocking and remove the cause for blocking cutting tools.
- e) **If you want to switch on a diamond core drill whose drill bit sticks in the workpiece, check if the cutting tool can revolve freely before switching on.** If the cutting tool is clamped, it possibly will not turn, may cause an overstress of the tool or cause the diamond core drill to come loose from the workpiece.

- f) **If attaching the drill stand at the workpiece by means of dowels or screws, make sure that the used anchorage is able to hold the machine during operation securely.** If the workpiece is not resistant or porous the dowel can be removed whereby the drill stand separates from the workpiece.
- g) **When fastening the drill stand on the workpiece by means of vacuum pump make sure that the surface is smooth, clean and non-porous.** Do not mount the drill to laminated surfaces such as on tiles and coatings of composites. If the surface of the workpiece is not smooth, flat or sufficiently secured, the vacuum plate can loosen from the workpiece.
- h) **Make sure that the vacuum power is sufficiently safe before drilling.** If there is insufficient vacuum power the vacuum plate can loosen from the workpiece.
- i) **Never perform overhead drilling when the machine is attached only by vacuum plate.** In case of loss of the vacuum, the vacuum plate detaches from the workpiece.
- j) **Make sure that persons and working area on the opposite site are protected if you drill through walls and ceilings.** The drill bit can overlap the borehole and the drill core can fall out of the drill bit on the other side.
- k) **For overhead drilling always use a water collecting system prescribed by the manufacturer. Make sure that no water seeps into the tool.** The penetration of water into the power tool increases the risk of electric shock.

## 2. PARTICULAR SAFETY PRECAUTIONS - Please note!

This core drill is only intended for professional use and may only be operated by trained personnel. Proper use extends only to the drilling of rock, concrete, asphalt and masonry.

For operation, the relevant regulations must be observed.

Power tools must regularly (approx. 6 months) be checked for safety by a specialist.

Vertical drilling (overhead drilling) only with suitable protective equipment (e.g. water collecting device).

After any interruption to your work, only switch the core drilling machine on again, after you made sure that the drill bit can rotate freely. When drilling through iron reinforcements, use a greater initial pressure and the next lower gear.

If the drill blocks, do not try to loosen it by switching the machine on and off. Switch the machine off immediately and try to loosen the drill bit by turning right and left using a suitable wrench. Carefully remove the machine from the borehole.

**Make sure that you do not drill a hidden water pipe or live cable. In case of doubt always check the drilling area by means of a detector.**

**It is strictly to pay attention that water does not get into the motor.**

**Never operate the machine without the accompanying PRCD (machines without PRCD: Never operate the machine without an isolating transformer).**

## 3. INTENDED USE

DK26/28/32/34 are diamond core drills which are operated only when fixed in a rig KS30 / KS50 (2) (rig-controlled). This core drill is only intended for professional use and may only be operated by trained personnel. Proper use extends only to the drilling of rock, concrete masonry and asphalt.

By the addition of water through the diamond drill bit (3) via the ball valve (1a) the drilled material is flushed away and the tool cooled (wet drilling). The drilling tool, the diamond drill bit (3), is a hollow drill (tube) which is fitted with soldered-on or welded-on segments impregnated with diamonds.

The machine may not be used for a different purpose or with a different tool.

If necessary, the flushing water is extracted through a water collecting ring (4) by means of an all-purpose suction unit.



**ATTENTION: Avoid wet drilling upwards (overhead drilling). If it is indispensable use absolutely a perfect, all right and functioning water-collecting ring.**

### 3.1 Specifications

Machine type		DK26	DK26L	DK26 S	DK32 / DK28	DK32S	DK34
Nominal voltage	V	230/110	230/110	230	230/110	230/110	230/110
Nominal current	A	12,3/24,6	12,3/24,6	12,3	15/30	15/30	15/30
Nominal power	W	2600	2600	2600	3200	3200	3200
Power output	W	1870	1870	1870	2300	2300	2300
Nominal frequency	Hz	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60
Speed (full load)	1/min	320/630/980	245/480/760	460/910/1420	230/460/720	300/590/930	150/300/470
Speed (no load)	1/min	550/1070/1630	420/820/1250	770/1500/2300	420/820/1250	550/1070/1630	250/510/800
Drill $\varnothing$ in concrete	mm	40 - 250	50 - 310	30 - 170	55 - 350	40 - 250	80-400
Weight	kg	11,9	11,9	11,9	11,9	11,9	12,9
Tool fixture	1 1/4" UNC						

\* Holes with diameters over 250 mm can only be established with particularly stable rigs and the use of heavy duty dowels for fastening

<b>Operating data DK26</b>				
Position/speed	1/min	1/320	2/630	3/980
Drill $\varnothing$ concrete	mm	125 - 250	65 - 130	40 - 80
Water volume approx.	l/min	1,5 - 2,0	1,0 - 1,5	0,8 - 1,2
<b>Operating data DK26L</b>				
Position/speed	1/min	1/245	2/480	3/760
Drill $\varnothing$ concrete	mm	150 - 310	75 - 150	50 - 100
Water volume approx.	l/min	1,6 - 2,2	1,1 - 1,6	0,9 - 1,3
<b>Operating data DK26S</b>				
Position/speed	1/min	1/460	2/910	3/1420
Drill $\varnothing$ concrete	mm	85 - 165	40 - 85	30 - 55
Water volume approx.	l/min	1,6 - 2,2	1,1 - 1,6	0,9 - 1,3
<b>Operating data DK32 / DK28</b>				
Position/speed	1/min	1/230	2/460	3/720
Drill $\varnothing$ concrete	mm	165 - 350	80 - 160	55 - 105
Water volume approx.	l/min	1,7 - 2,4	1,1 - 1,6	0,9 - 1,3
<b>Operating data DK32S</b>				
Position/speed	1/min	1/300	2/590	3/930
Drill $\varnothing$ concrete	mm	125 - 250	65 - 130	40 - 80
Water volume approx.	l/min	1,5 - 2,0	1,0 - 1,5	0,8 - 1,2
<b>Operating data DK34</b>				
Position/speed	1/min	1/150	2/300	3/470
Drill $\varnothing$ concrete	mm	250 - 400	125 - 250	80 - 160
Water volume approx.	l/min	2,0 - 2,5	1,5 - 2,0	1,2 - 1,6

### 3.2 Scope of delivery

Diamond core drilling machine (1) with ball valve and plug-in nipple (1a), PRCD (GFCI) circuit-breaker (1b) and operating instructions.

### 3.3 Noise emissions and vibration (EN 62841)

The typical A-rated sound pressure level is 96 dB(A).

The typical A-rated sound level is 110 dB(A).

Uncertainty K = 3 dB

The typical rated acceleration is 2.5 m/s<sup>2</sup>.

## 4. PREPARATION

Satisfy yourself that the machine has not been damaged in transit. Check that the nominal voltage is the same as the voltage indicated on the rating plate.

### 4.1 Electrical connection

According to the European standards EN62841-1 and EN62841-3-6, the electrical connection of diamond core drills with water supply must be operated via a residual current device (RCD, PRCD) and to a properly earthed socket.

In accordance with these regulations, the DK26/28/32/34 is fitted with an inline protector (PRCD) (1b) mounted in the cord.

This contains both, RCD protection and undervoltage tripping.

The PRCD must be switched on using the ON key after the power plug has been inserted into the socket outlet. In the event of a voltage drop, the PRCD will switch off and must then be switched on again once the power supply has been reestablished.

The rated current, i.e. the fault current at which the PRCD switches off, is 10 mA.



**The PRCD must not lie in water. It must be checked for perfect functioning always before starting the work. Never operate a diamond core drilling machine without RCD or PRCD directly from the mains system (machines without PRCD: Never operate the machine without an isolating transformer).**

### 4.2 Water connection

Connect the water to the water supply via the plug-in nipple.

**Attention: max. water pressure 3 bar.**

Please use a GARDENA coupling as the connecting piece to the machine. This can be obtained from a garden center or builders' merchant.

Use only clean water, as dirty water will cause the seals to wear very quickly.

### 4.3 Assembling at the drill rig



**The safety and operating instructions for the drill rig being used are to be strictly observed.**

The DK26/28/32/34 is fastened at the gear foot (see illustration) with 4 M8 screws on the rig (2). Choose screws which have a length of thread engagement of at least 15 mm. Place the machine only in a stable rig which has precise guides free from clearance. Ensure that the machine axis is absolutely parallel to the upright column. Only use rigs with sufficient stability.

### 4.4 Mains switch (1c) and integral over current protection

After having switched on the motor starts softly. If the machine is being overloaded, the motor electronic switches over to the pulsating operation for showing the operator the overload. If the force is then not reduced, the motor switches off after a few seconds. After switching the machine off and on again, the motor starts again softly.

Before switching the machine on again, ensure that the drill bit can be turned easily and is not jammed in the drill hole.

The motor electronic can temporarily be used on 260 Volt (resp. 140 Volt on 110 Volt machines). Higher voltages however can cause irreparable damages. Please note that when operating the machine via a generator, this does not generate higher voltage peaks.

### 4.5 Gear change

The DK26/28/32/34 has a 3-speed gear.

Never use force to switch over, and only switch over when the machine is decelerating or has stopped. Always select the appropriate speed for the drill diameter (see table and rating plate on the machine).

## 4.6 Friction clutch

The integrated friction clutch protects operating personnel, the machine and the tool against high mechanical overloads.

**Please ensure that the release time of the clutch is not more than 3 - 4 seconds, because otherwise wear and heat will increase rapidly.**

## 5. PUTTING INTO OPERATION

### 5.1 Diamond drill bit

The tool fixture of the DK26/28/32/34 consists of a thread 1 ¼" UNC, respectively of a combination of 1 1/4" male and G1/2" female. Only use suitable high quality diamond tools.

Use sharp tools and ensure that the diamond segments are sufficiently larger than the inner and outer diameter of the drill bit tube.

Apply water-resistant grease to the tool thread so that the tool can be easily loosened.

Ensure that the radial run out at the diamond segments of the drill bit is no greater than 1 mm (eccentricity).

Only use suitable wrenches for changing the core bit. Thereby hold the drilling spindle with another wrench.



**Never use a hammer or something similar to open the core bit. If necessary elongate the wrench.**

### 5.2 Drilling



**The safety and operating instructions for the drill rig being used are to be strictly observed.**

Since the rig is not included in the delivery, only a few important features are noted here.

**Please adhere to the operating instructions for the drill rig.**

### Fixing methods

Dowel fixing, bracing.

The most common method of fixing is dowel fixing. Use metal dowels if at all possible. The diameter of the dowels must be at least 12 mm.

Set the volume of water at the ball valve (1a) so, that the waste material is completely flushed from the drill hole. If drilling mud forms round the drill hole, you are not using enough water.

Use force as required. If you do not, the diamonds will tend to "polish". In this case the rate of advance will fall constantly until cutting finally stops.

Sometimes the segments can be resharpened again by using an SiC grindstone.

Take care that the drill bit does not vibrate, otherwise the diamonds can be tugged out their bond.

When drilling through iron reinforcements, use a greater initial pressure and the next lower gear.

If the drill blocks, do not try to loosen it by switching the machine on and off. Switch the machine off immediately and try to loosen the drill bit by turning right and left using a suitable wrench. Carefully remove the machine from the borehole.

In order to avoid too high physical burden the diamond core drill and drill rig are to be assembled and carried separated from each other.

## 6. MAINTENANCE



**You must remove the mains plug from the supply socket before beginning any maintenance or repair work.**

Clean the machine with a dry or moist cleaning-rag and not with a jet of water. Make sure that no water gets into the motor or the switch box. Ensure that the ventilation slots are always clean. Clean and grease the tool thread, too.

Damaged PRCs and plugs have to be repaired or exchanged exclusively in an authorized repair station ([www.weka-elektrowerkzeuge.de](http://www.weka-elektrowerkzeuge.de)).

A damaged cable has to be replaced by a special prepared cable that can be purchased in an authorized repair station.

## 6.1 Oil bath gear

The gear oil should be changed after the first 100 hours of operation. Ensure that this work is carried out in a specialist workshop.

ATTENTION: If gear oil escapes, stop the machine immediately. Leakage of oil damages the gear.

## 6.2 Water connection

If water escapes from the overflow hole on the water connection ring (item 91), the rotary shaft seals (items 131 + 133) must be replaced immediately. This should only be done in an authorised specialist workshop.

## 6.3 Carbon brushes

The carbon brushes should be examined for wear after about 300 hours in operation, and replaced if necessary. As with all other work on the motor, this should only be carried out by an electrician.

## 7. GUARANTEE

We will guarantee the WEKA core drilling machine for 12 months from the day of delivery. During this period we will rectify material and production defects free of charge. This warranty does not cover normal wear and tear, overloading, non-compliance with the operating instructions and intervention by unauthorized persons or the use of parts from other companies.

## 8. DECLARATION OF CONFORMITY

Description: Diamond core drill - for drilling holes in concrete, stone and masonry  
Type: DK26, DK28, DK32, DK34 (and versions)  
from serial no.: 0115001

We hereby declare under our sole responsibility that this product conforms with the following standards: EN55014-1, EN55014-2, EN61000-3-2, EN61000-3-3, EN 62841-1, EN 62841-3-6 in accordance to the regulations of directive 2006/42/EG, 2011/65/EU and 2014/30/EU.

WEKA Elektrowerkzeuge  
Auf der Höhe 20  
D 75387 Neubulach

Neubulach, 22.07.2016  
Wilhelm Wurster, Owner



## 9. RECYCLING



According to the European regulation 2002/96/EG we have to take back old machines for departing them by substance and for recycling (see sign on name plate). Please make sure that the old tool does not get into the unsorted municipal solid waste, but that they are given back to us, resp. abroad to our distributors.

Original instructions - Subject to change without notice 0716