

# CLIPACORE<sup>®</sup>

*The Boss*



OPERATING MANUAL

## Key Features



1. Clipacore Quick Release Drill Adaptor designed for interchangeable core bits
2. Variable Handle Adjustment on Collar
3. Powerful 2 speed gear box, 1,000 RPM / 2,000 RPM
4. Electronic Soft Start Temperature Control and Current Cut-Off
5. Mechanical Safety Clutch
6. Available in 230v or 110v
7. Quick release extension bar (supplied)

# CLIPACORE<sup>®</sup>

## Important Instructions

Warning notices:



Warning of general danger



Warning of dangerous voltage



Warning of hot surface



Danger of being crushed

During work you should wear goggles, ear protectors, protective gloves, and sturdy work clothes!



Use ear protection



Wear safety goggles



Wear a helmet



Use protective gloves



Wear protective boots



Wear a dust mask

## Technical Data

### The Clipacore Diamond Core Drill

Rated voltage:	230 V ~	110 V ~
Power input:	1700 W	1500 W
Rated current:	8,3 A	14,2 A

Frequency:	50/60 Hz
Max. drilling diameter:	152 mm
Bit holder:	Quick release drill adaptor
Collar diameter:	53 mm
Protection class:	II
Degree of protection:	IP 20
Weight:	ca. 6,8 kg
Interference suppression acc.to:	EN 55014 and EN 61000

*Subject to technical changes!*

Gear	Rated speed	No-load speed Max.	Drilling diameter
I	0 - 1000 rpm	0 - 1500 rpm	152 mm
II	0 - 2000 rpm	0 - 3000 rpm	82 mm

### Supply

Diamond core drill, manual, transport case

### Application for Indented Purpose

The **Clipacore Diamond Core Drill** is indented only for professional use and may be used only by instructed personnel.

## Safety Instructions



Safe use of the tool is only possible if the user had studied the instruction manual and safety instructions completely and is strictly following the instructions contained therein. Additionally, the general safety instructions of the leaflet supplied with the tool must be observed. Prior to the first use, the user should absolve a practical training. Save all warnings and instructions for future reference.



If the mains cable gets damaged or cut during the use, do not touch it, but instantly pull the plug out of the socket. Never use the tool with damaged mains cable.



Prior to drilling in walls and ceilings, check them for hidden cables, gas and water pipes and other media. Check the working area, e.g. using a metal detector. Prior to the start of your work, consult a statics specialist to determine the exact drilling position. If drilling through ceilings, secure the place below, because the drill core may fall downward.



The tool must neither be wet nor used in humid environment.

- Do not use the tool in an environment with danger of explosion.
- Do not use the tool standing on a ladder.
- Do not drill into asbestos-containing materials.
- Do not carry the tool at its cable, and always check the tool, cable and plug before use. Have damages only repaired by specialists. Insert the plug into the socket only when the tool switch is off.
- Modifications of the tool are prohibited.
- Unplug the tool and make sure that the switch is off if the tool is not under supervision, e.g. during preparation and take-down works, at power failures, for insertion or mounting accessories.
- Unplug the tool if it stops for any reason. So you avoid sudden starts in unattended condition.
- Do not use the drill if its shell, switch, cable or plug is damaged.
- Always lead the mains and extension cables as well as the dedusting hose from the tool to the back.
- Electrical tools have to be inspected visually by a specialist in regular intervals.
- The tool may be used only in two-hand operation or with the drill rig.

- Keep the handles dry, clean, and free of oil and grease.
- Do not touch rotating parts.
- Persons under 16 years are not allowed to use the tool.
- During use, the user and other persons standing nearby have to wear suitable goggles, helmets, ear protectors, dust mask, protective clothes and boots.



- **During manual operation, always hold the tool with both hands and be fall-safe. Consider the tool's reaction torque in case of blocking.**
- **Always work with concentration. Always work in a carefully considered way and do not use the tool if you are lacking consideration.**
- **During manual operation, work with a special circumspection when dry drilling with dimensions between 100 and 132 mm!**

For further safety instructions, see the enclosure.



## Electrical Connection

The **The Clipacore Diamond Core Drill** is designed according to protective class II. Prior to putting the tool into operation, check the mains voltage for conformity.

Voltage variations between + 6 % and – 10 % are permissible.

The tool includes a start-up speed limiter to prevent fast expulsion fuses from unindented responding.

Only use extension cables with a sufficient cross-section. A cross-section which is too small could cause a considerable drop in performance and an overheating of machine and cable.

### Recommended minimum cross sections and maximum cable lengths

Mains voltage	Cross section in sq. mm	
	1.5	2.5
110V	20 m	40 m
230V	50 m	80 m

## Additional Handle

For manual drilling, the **The Clipacore Diamond Core Drill** may be used only together with its additional handle which comes with the tools. Place it on the gearing collar from the front and fix it by counterclockwise rotation.

## Switching ON and OFF

### Short-time operation

**ON:** Press the ON/OFF switch

**OFF:** Release the ON/OFF switch

### Long-time operation

**ON:** Keeping the ON/Of switch pressed, push in the arrestor button.

**OFF:** Press and release the ON/OFF switch again.



### Attention!

**Use the arrestor button only during operation with drill rig. Its use during manual operation is not allowed. If the machine stops for any reason or due to power failure, immediately release the arrestor button by pressing the ON/OFF switch.**

The **Clipacore Diamond Core Drill** is equipped with an electronic switch. With this switch the speed can be regulated according to the pressure on the button. Only use the electronic switch when you want to start or stop the machine in order to avoid material splashing around. A permanent use with reduced speed can cause an overload because the motor then gets less cooling air and therefore the machine will be overheated much faster.

## Changing Gears

The **Clipacore Diamond Core Drill** is equipped with a 2-gear gearing. Select the speed according to the drilling diameter.

Use the gear selector to change to next higher or lower gear.

If gear changing is too heavy, slightly turn the working spindle to ease gear changing.

Switching the tool on and off for a moment may also help to ease gear selection.



### Warning!

- **Never apply force, and change the gear only when the tool is running down.**
- **Never use tools, such as hammers or pliers to change the gear.**

## Drilling

Dust which occurs during your work is hazardous to health. That is why it is advisable to use a dust extractor and to wear a dust mask on dry drilling.

In case the core bit gets jammed, do not try to release it by switching the drill on and off. This would cause premature wearing of the safety clutch. Switch the drill off immediately and cautiously pull the tool out of the borehole.

In case the bit gets jammed, DO NOT try to release it by switching the tool on and off. This would cause premature wearing of the safety clutch. Switch the tool off immediately and unfix the drill bit by turning to the left or right using an appropriate open-end wrench. Cautiously pull the tool out of the borehole.

## Core Bits

Use only appropriate drill bits for the material to be drilled in. You can protect your tool by using only well balanced drill bits without deformation. Make sure that the diamond segments have sufficient cutting clearance towards the bit body.

### Changing Core Bits



**When you use or sharpen the machine, it might heat up enormously. You could burn your hands or get cut or ripped by the segments. Therefore, always use protective gloves when changing the drill bit.**

Core bits can be interchanged by releasing the quick release clip from the core adaptor and simply sliding off the core bit from the end of the drill adaptor (factory fitted). Always ensure the holes align on the Drill adaptor and Core adaptor before inserting the quick release clip.

## Overload Protection

To protect the user, motor and drill bit, the **The Clipacore Diamond Core Drill** is equipped with a mechanical, electrical and thermal overload protection.

- Mechanical:** In the event of a sudden jamming of the drill bit, the machine's kickback is limited to a reaction torque controllable by the operator by means of a slip clutch.
- Electrical:** In case of overload due to too large feed force, the electronic will cut OFF the machine. After discharge and switching ON you can continue drilling again.
- Thermal:** In case of permanent overload, a thermocouple protects the motor against destruction. In that case, the tool switches off and can only be restarted after a certain cooling-down period (approx. 2 minutes). The cooling-down time depends on the temperature of the motor winding and ambient temperature.

## Safety Clutch

The slip clutch served for compensation of shocks and overload. To keep its functionality, it should not slip for more than 2 seconds. In case of excessive wearing, it can be replaced by an authorized service centre.

## Care and Maintenance



**Before the beginning of the maintenance - or repair works you have to disconnect plug from the mains.**

It is a must to unplug the tool before starting any service or repair works. Repairs may be executed only by appropriately qualified and experienced personnel.

After every repair, the unit has to be checked by an electrical specialist. According to its design, the tool requires a minimum of care and maintenance. However, the following maintenance works and component checks have to be performed in regular intervals:

- Clean the drill after completion of your work. The ventilation slots must always be clean and unclogged. Make sure that no water gets into the tool during cleaning.
- After approx. 250 hours of operation, the carbon brushes must be checked and, if necessary, be replaced by an authorized specialist (use only original carbon brushes).
- Once per quarter of a year, an electrical specialist should check the switch, cable and plug.

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. The service team will gladly answer questions concerning our products and their accessories.

## Environmental Protection



Raw material recycling instead of waste disposal

To avoid damages in transit, the tool is supplied in a sturdy packing. The packing as well as the tool and its accessories are made of recyclable materials which enable environmentally friendly and sortwise disposal by the local reception points.



#### **Only for EU countries**

Do not dispose of electric tools together with household waste material!

In observance of European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

## **Noise Emission**

The indication of noise emission is measured after EN 62841-2-1. The level of acoustic pressure on work site could exceed 85 dB (A); in this case protection means must be used.



#### **Wear ear protectors!**

The typical hand-arm vibration is below 2.5 m/s<sup>2</sup>.

Measured values determined according to EN 62841-2-1. The declared vibration emission level represents the main applications of the tool. However, if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

## **Dust protection**

Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful. Contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders. Certain kinds of dust are classified as carcinogenic such as oak and beech dust especially in conjunction with additives for wood conditioning (chromate, wood preservative). Material containing asbestos must only be treated by specialists.

- Where the use of a dust extraction device is possible it shall be used.
- To achieve a high level of dust collection, use industrial vacuum cleaner (category M) for wood and/or minerals together with this tool.
- The work place must be well ventilated.
- The use of a dust mask of filter class P2 is recommended.

## **Warranty**

According to the general supply conditions for business dealings, suppliers have to provide to companies a warranty period of 12 months for redhibitory defects. **(To be documented by invoice or delivery note).**

Damage due to natural wear, overstressing or improper handling are excluded from this warranty.

Damages due to material defects or production faults shall be eliminated free of charge by either repair or replacement.

Complaints will be accepted only if the tool was returned in non-dismantled condition to the manufacturer or an authorised service centre.

## **Declaration of Conformity**

We declare under our sole responsibility that the product described under “Technical Data” is in conformity with all relevant provisions of the directives 2011/65/EU, 2014/30/EU, 2006/42/EC

including their amendments and complies with the following standards:

EN 62841-1

EN 62841-2-1

EN 55014-1

EN 55014-2

EN 61000-3-2

EN 61000-3-3

Technical file (2006/42/EC) at:

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