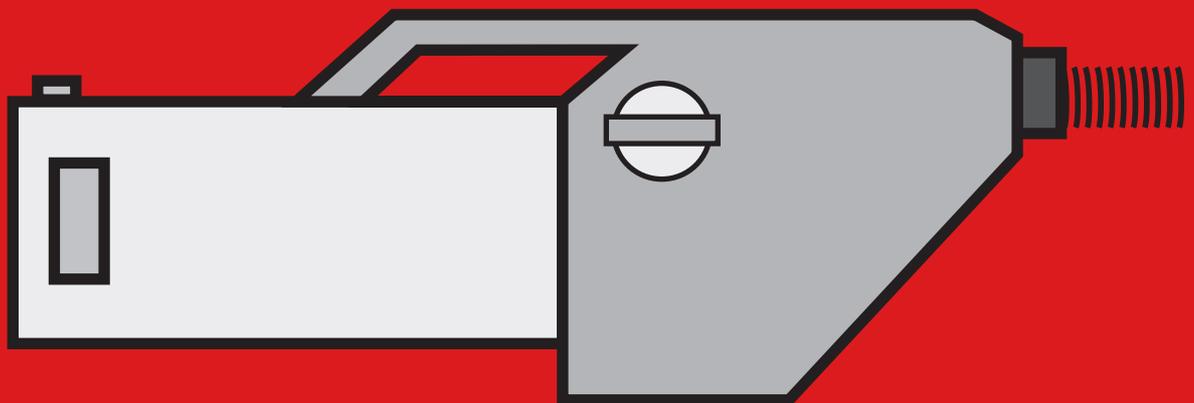
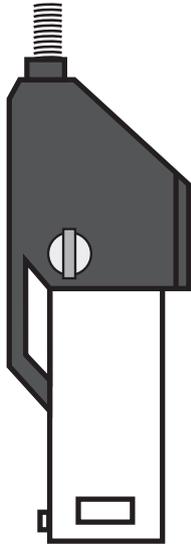
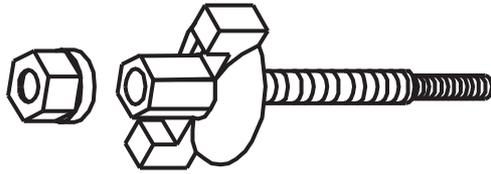


EN SAFETY AND USER MANUAL FOR:
STATIONARY CORE DRILL MOTOR

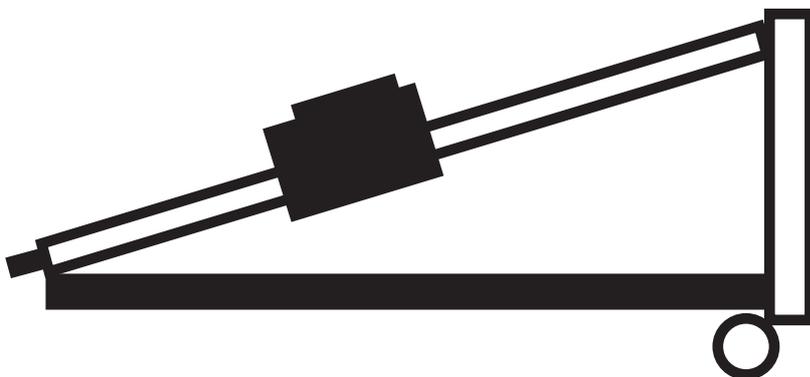
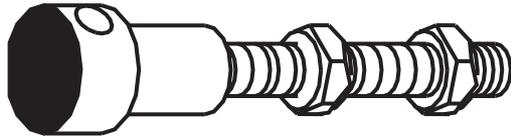




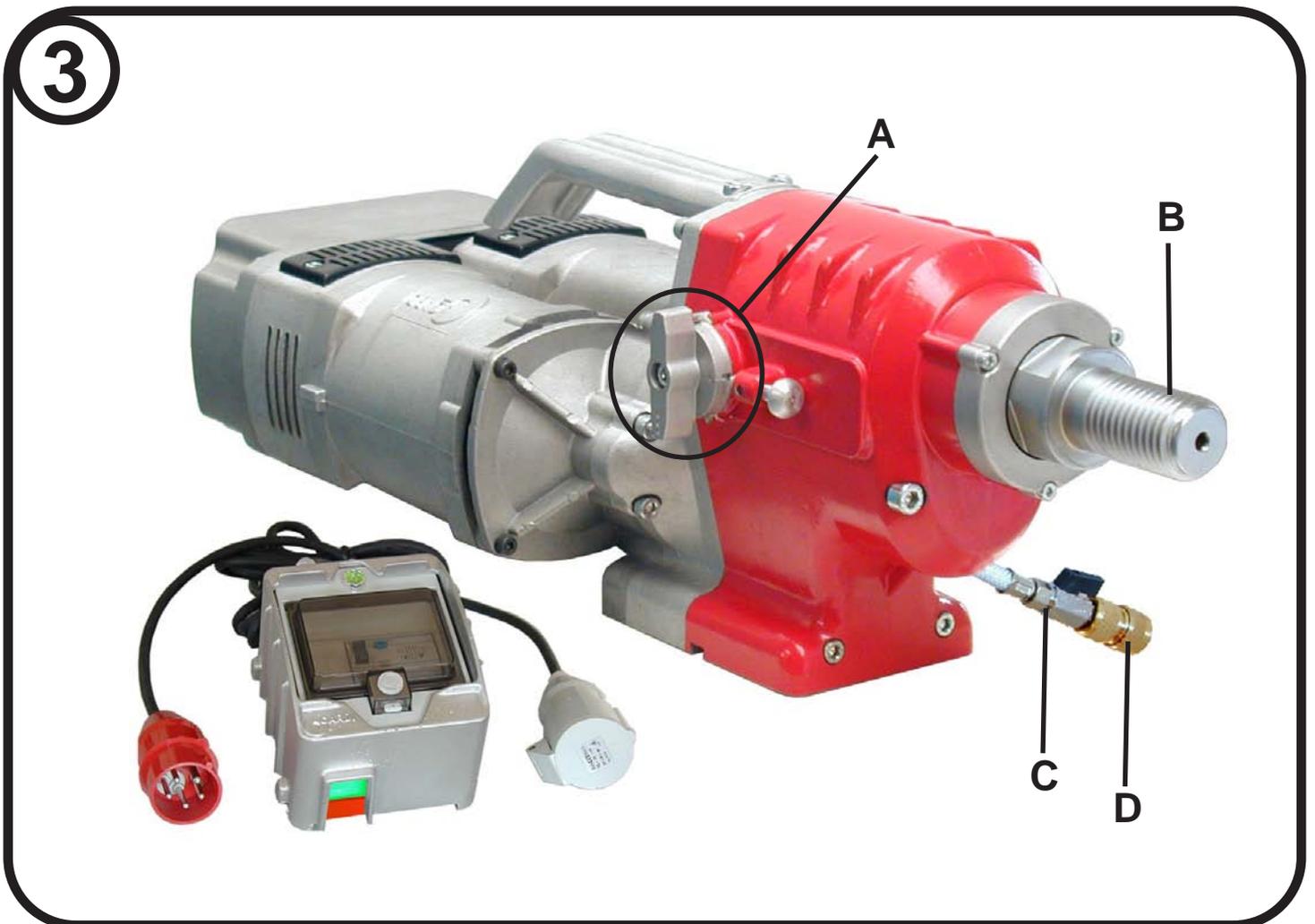
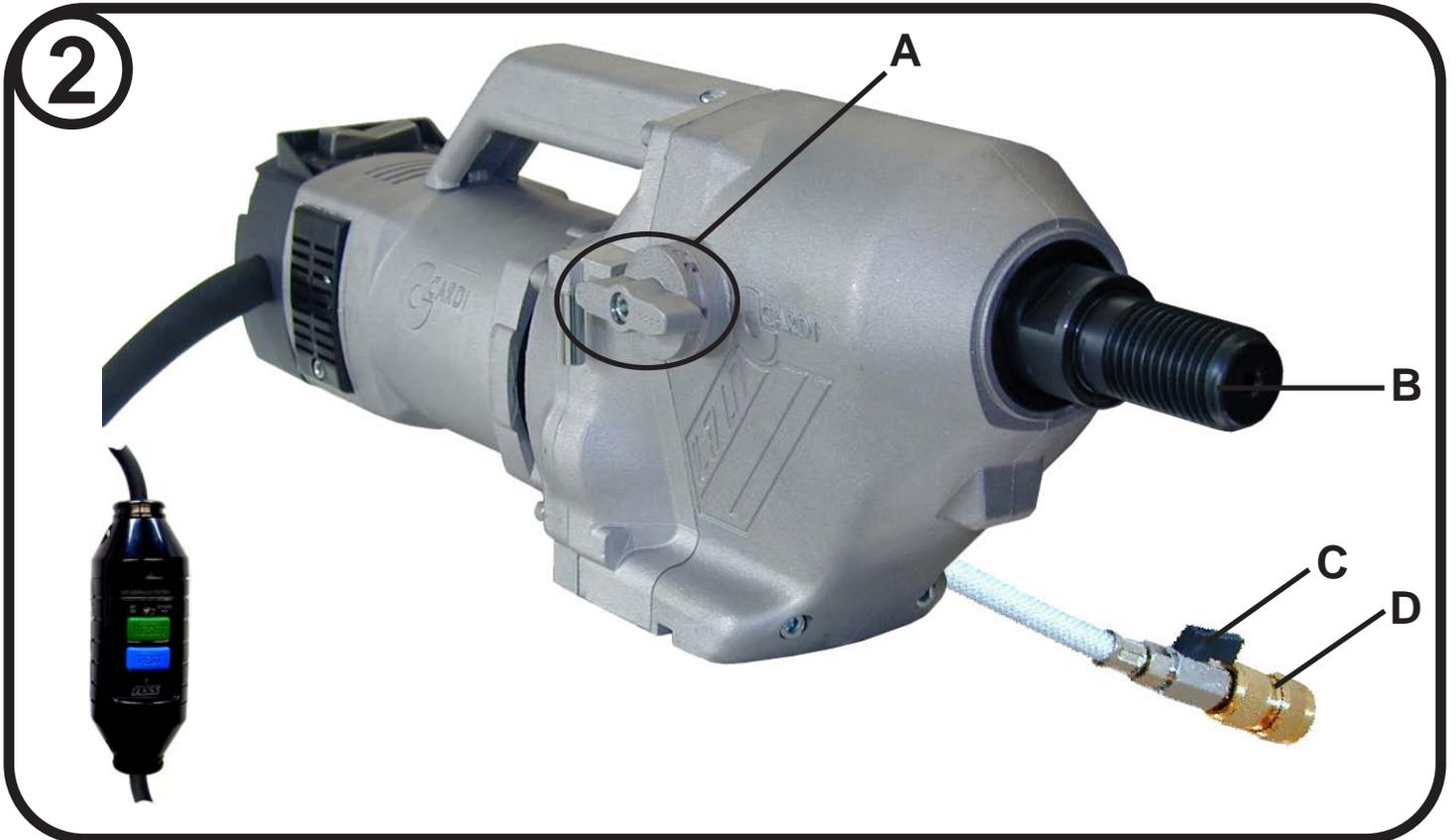
← Z

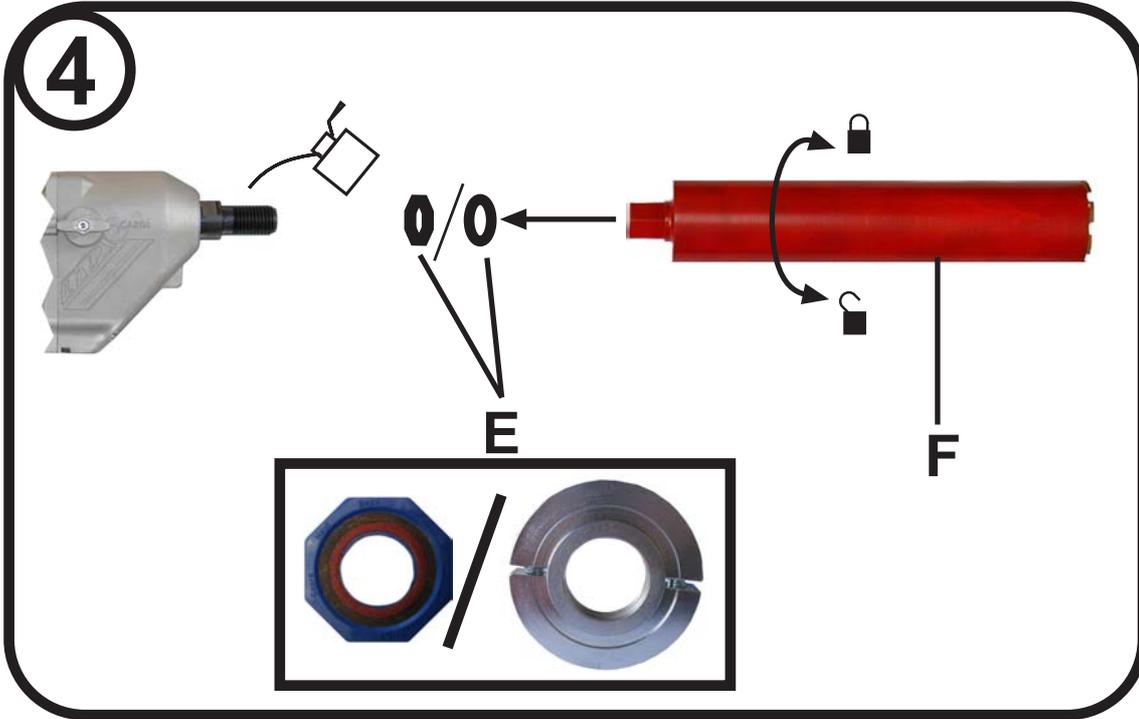


← Y



← X





6

CARDI | CARDI s.r.l.
Via Leonardo Da Vinci, 21
24030 - Pontida (BG) - Italy

T9-500-EL Serie A2

3420 W / 230 V ~ 16 A / 50 + 60 Hz

	n _v /min	n/min	∅ mm
I	230	150	500 + 300
II	400	260	300 + 220
III	570	370	220 + 140
IV	820	540	140 + 35

Senza n... [matricola]

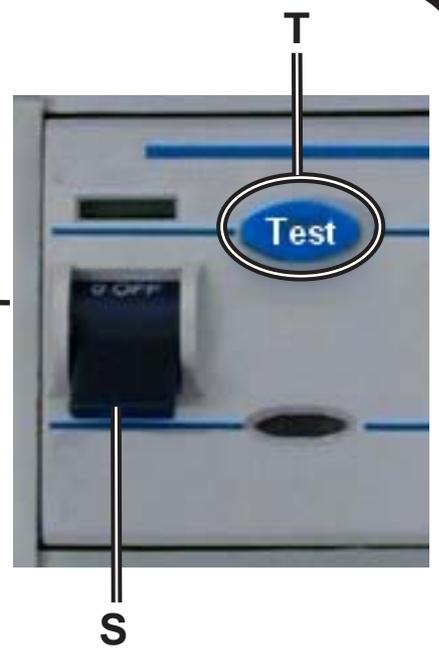
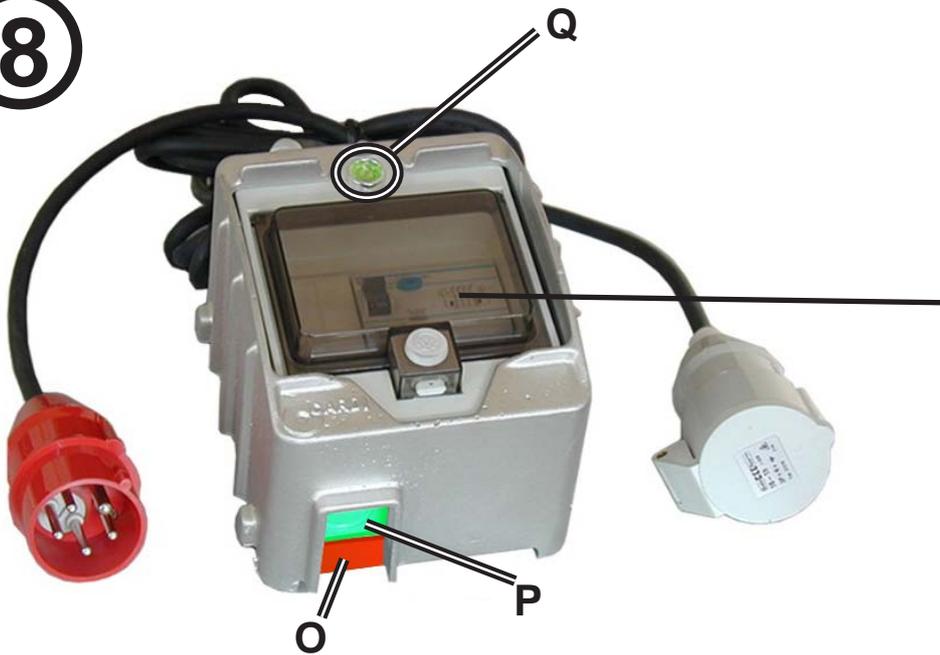
Made In E.U. 2008    **CE**



7



8



SEZIONE MINIMA DEI CONDUTTORI PER CAVI DI PROLUNGA
MINIMUM WIRE SIZE FOR EXTENSION CABLE
MIN. ADERDURCHMESSER FÜR VERLÄNGERUNGSKABEL
SECÇÃO MINIMA DE CABO
EXTENSION DEL CABLE
SECTION DU CONDUCTEUR POUR CORDON PROLONGATEUR
MINIMUM STØRRELSE PÅ FORLÆNGERKABEL
ΕΝΑΧΙΣΤΟ ΜΕΤΕΘΟΣ ΑΓΩΓΩΝ ΓΙΑ ΚΑΛΩΔΙΑ ΠΡΟΕΚΤΑΣΗΣ
MINIMALE DOORSNEDE ADERS VERLENGSNOER

AMPERE (A)	LUNGHEZZA - LENGTH - LÄNGE - LARGURA - LARGO LONGUEUR - LÆNGDE - ΜΗΚΟΣ - LENGTE					
	7,5 m	15 m	25 m	30 m	45 m	60 m

5,1 ÷ 7	2,5 mm ²					
7,1 ÷ 10	2,5 mm ²	4 mm ²				
10,1 ÷ 16	4 mm ²	4 mm ²	4 mm ²	6 mm ²	6 mm ²	6 mm ²
16,1 ÷ 22	4 mm ²	4 mm ²	6 mm ²	6 mm ²	6 mm ²	-

Caratteristiche dei cavi di prolunga: 3 CONDUTTORI (1 fase + 1 neutro + terra) per motori monofase 5 CONDUTTORI (3 fasi + 1 neutro + terra) per motori trifase	Características cables: con 3 CABLES (2 polos+tierra) para motores mono-fase con 5 CABLES (3 polos+neutral+tierra) para motores tri-fase
--	--

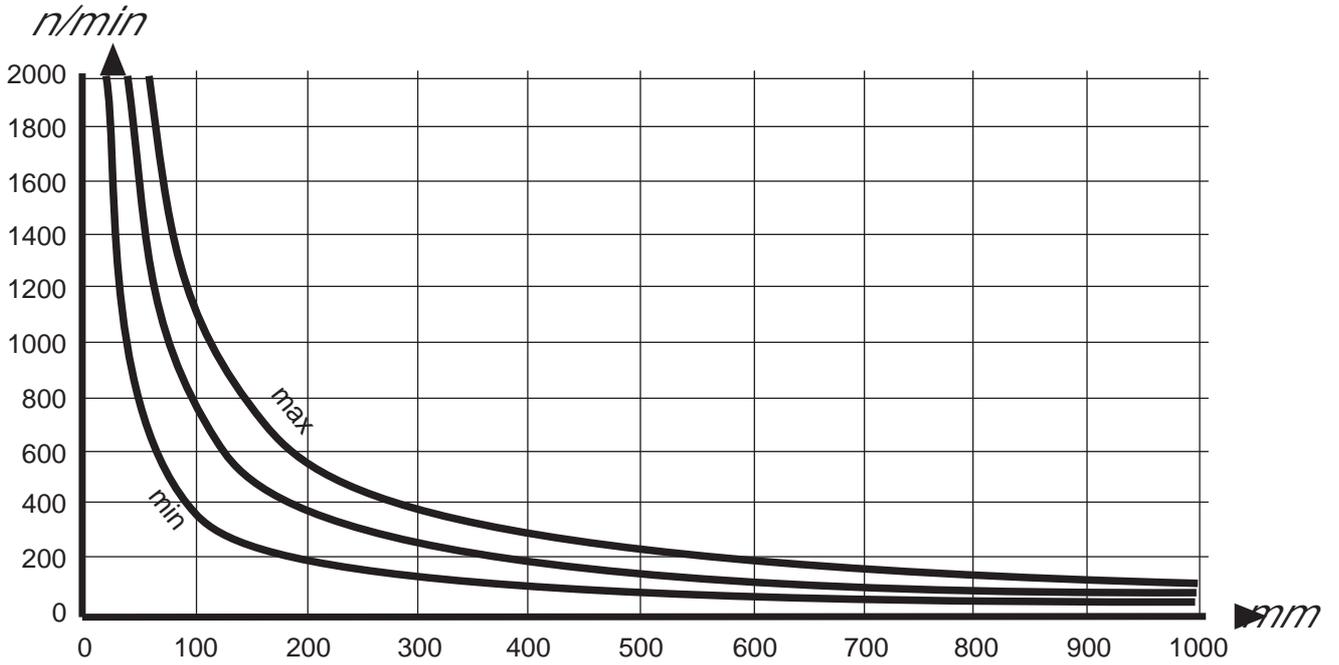
Extension Cable: 3 WIRES (2 Pole + Ground) for single phase motors. 5 WIRES (3 Pole + Ground + neutral) for three phase motors.	Forlængerkabel: 3 LEDERE (2 poler + jord) for enkeltfaset motor 5 LEDERE (3 poler + jord + neutral) for trefaset motor.
---	---

Vergrößerungskabel: 3 ADRIG (2 Pole + Erde) für Einphasenmotoren 5 ADRIG (3 Pole + Nulleiter + Erde) für Dreiphasenmotoren	Καλώδιο προέκτασης: 3 ΑΓΩΓΟΙ (2 πόλοι + γείωση) για μονοφασικούς κινητήρες 5 ΑΓΩΓΟΙ (3 πόλοι + γείωση + ουδέτερος) για τριφασικούς κινητήρες
--	--

Características dos cabos: Com 3 CABOS (2 polos + terra) para motores mono-fasicos. Com 5 CABOS (3 polos + neutro + terra) para motores tri-fasicos.	Verlengsnoer: 3-aderig (2 polen plus aarde) voor eenfasemotoren 5-aderig (3 polen plus aarde plus neutral) voor driefasemotoren
--	---

Le cordon prolongateur doit être : 3 CONDUCTEUR (2 Pole + Terre) pour moteurs monophasé. 5 CONDUCTEUR (3 Pole + Terre + neutral) pour moteurs trifasé.	
--	--

11




 VELOCITA' IDEALE
 OPTIMAL SPEED
 EMPFOHLENE U/min
 VELOCIDAD IDEAL
 VITESSE IDEALE
 VELOCIDADE IDEAL
 IDEELLE HASTIGHED
 ΒΕΛΤΙΣΤΕΣ ΣΤΡΟΦΕΣ
 OPTIMALE SNELHEID

Your CARDI core drill motor (figure 1, Z) is an electric tool that must be used mounted to a proper drill stand (X) which must be fastened by an anchoring system (Y). These three parts together make a diamond core drill (X+Y+Z), suitable to drill into stone-like materials (reinforced or not reinforced concrete, bricks, stone...) using a core bit. Your core drill motor conforms with its related regulations. The diamond core drill conforms with the regulations if the stand and the anchoring system conform with their related regulations.

General safety rules

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) powertool.

SAVE THESE INSTRUCTIONS

1) Work area

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

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.**
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.**
- c) **Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.**
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.**
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.**

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.**
- b) **Use safety equipments: always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.**
- c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.**

- d) **Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.**
- e) **Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery and long hair can be caught in moving parts.**
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.**
- h) **Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.**

4) Power tool use and care

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

5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.**

Additional safety rules for diamond drills

-  Always wear safety goggles
-  Always wear safety gloves
-  Always wear ear protection
-  Always wear safety shoes
-  Always wear dust mask

- follow the instructions given by the stand manufacturer for mounting your core drill motor to the stand;

Instructions before use



Read carefully the data reported on the data plate of your core drill and on the *Technical Data* sheet that you will find in the package together with your product.

In the following text, figures are identified by numbers, details inside the figures by letters. Figures are depicted on the first pages of this user manual.

Your core drill motor is suitable to be a part of a diamond core drill that conforms with the related regulations if the drill motor is mounted to a proper drill stand fastened by a proper anchoring system.

Power supply

Earth (Ground)

- the metallic parts of you core drill motor are connected to the earth.
- make sure that the socket and possible extension cords and multiple sockets have the earth connection and that your electrical system is properly connected to the earth.



Warning: for your safety, it is important that the whole system (electrical system, extension cords, sockets etc.) is connected to the earth. If you are not sure, ask a qualified electrician for a check.

Extension cords

- when you have to operate with your core drill motor far from an electrical socket, you can use an extension cord. If you use it make sure that the section of the cord is suitable and that the cord is provided with ground conductor;
- the extension cord (made up of cable, plug and socket) must be suitable for outdoor use. It is better if the cord is made of rubber and it is H07RN-F;
- follow the chart shown in figure 10 on this manual for the choice of the right section of the conductors;
- if you use more than one extension cord make sure that every cable in every extension cord has a section not lower than the value shown on the chart in figure 10, considering the total length of the extension cords;
- remember that the more an extension cord is long the more the voltage drop is high and the worse is the operation of your core drill. Don't use extension cords if you have to operate too far from the electrical socket.

Preliminary operations

In order to prepare your core drill to operate, follow these steps. Before proceeding with the preparation make sure that the plug is disconnected from the electricity network.



- follow the instructions given by the stand manufacturer for fastening the stand to the material to be drilled;

Follow these instructions:

- if you want to operate in wet mode, connect the hosepipe to the core drill motor as explained in the *Water insertion* paragraph. Make sure that the water valve is shut;
- if your core drill is equipped with a gear change (figure 2 A), see the data plate on your core drill motor as shown in figure 6. Identify the right rotating speed according to the diameter of the core bit you are using. Select the required gear change position just when the motor is at standstill;
- refer to the following paragraph *Diamond core bit mounting and replacement* in order to mount the core bit to your core drill.

Safety systems

Your core drill motor is equipped with one of the safety device listed here:

For single phase core drill motors: PRCD (portable residual current device, assembled on the cord, also known as GFI)

- your core drill motor is equipped with a safety portable residual current device (PRCD) assembled on the cord. This device is shown in figure 7;
- never use core drill without PRCD;
- before starting to work make sure the PRCD works properly. In order to do so, plug the core drill motor in and press the green button Reset (M): a red led will light up (L) showing that electricity is available to the core drill. Than press the blue button Test (N) that tests if the device works properly. When you press it the circuit breaker inside the PRCD should cut the power off leading the switch automatically to go to the off position and the red led to go off;
- if, when working, the PRCD cuts the power: stop working, set the switch on OFF position and bring your core drill to an authorized service centre in order to remove the causes of the electrical dissipation.

For twin motors core drill motors: portable electric safety device box

- the core drill motor is equipped with a portable electric safety device box which includes: one or more sockets, a residual current circuit breaker and a special socket into which you can plug your core drill motor. This device is shown in figure 8;
- the box can be plugged into a 5-pin socket with neutral pin (3 phases + neutral + earth). In this case you provide the motor with the all power it needs. Do not plug your core drill motor into a 4 pin socket (without neutral);
- the box can also be connected to a single phase network using the device R. In this way the maximum power the motor can have is the maximum provided by the electric network.
- never use your core drill motor without the safety device box;
- before starting to work make sure the box works properly: connect the box to the electric network, the led Q should light up, showing electricity inside the device. Than move the residual current device switch lever (S) to the on position ("I"). In order to test the device press the test button (T): the residual current device (S) should automatically go to the off position ("0");

- once you checked that the device works properly, switch the S lever to ON, and press the button (P) what gives power to the sockets. On the contrary, the button O cuts power to the sockets;
- if, when working, the residual current device goes off, cutting power to the machine: stop drilling, turn the ON/OFF switch off (figure 5.2) and eliminate the cause of dispersion asking to an authorized service centre.
- on the rear of the twin-motor core drill motor are located two lights shown in figure 5.2 with I. When both lights are on the two electric motors are working properly. If one light is off, means that the corresponding motor has a problem, for example the motor brushes are worn. When a light goes off stop drilling and bring ask an authorized service centre to fix the problem.

ON/OFF switch

Refer to figure 5.1 and 5.2 in order to understand how to use the on/off switch:

- single phase core drill motors use the switch shown in figure 5.1;
- twin-motor core drill motors use the switch shown in figure 5.2;



Warning: for your safety, you must get familiar with the switch in order to understand how you can switch the machine off in case of emergency.

Connection to a water supply

Wet drilling needs insertion of water into the core drill motor. Refer to figure 2.

- use only the water pipe provided with your core drill motor. The water pipe includes also a valve (C) and a quick hose connector (D);
- the maximum pressure of incoming water is 4 bar;
- use just clean water;
- prevent water from entering the electric motor or other electrical components;
- check at regular intervals that none of the water system components are damaged. Check in particular the valve (C), the quick hose connector (D) and the pipe.

Checks and precautions to avoid structural damage and damage to the plant

Before starting any drilling activity, talk with the construction manager or the planner in order to make sure that the drilling doesn't:

- make any damage to the structure of the building and doesn't change the structural characteristics of the construction;
- damage any water or gas pipeline or any electric mains.

Checks and precautions to avoid damage caused by the fall of the core

- before drilling, make sure that the possible falling out of core from the other side of the hole doesn't make any damage. In any case, bound the area where the core can fall and signal the danger;
- if the possible fall of the core can make damage, make a system that holds the core when drilling is completed.

Core bit choice

The maximum and minimum core bit diameter is reported on the data plate on your core drill motor. Do not use core bit with different diameter from the one prescribed.



Warning: for your safety do not use different core bits from the ones prescribed for your specific application

The core bit is different depending on the material to be drilled: consult your dealer about the correct core bit for your application. The not suited core bit or a core bit not sharp can overload the motor leading to: damage to the motor, long drilling time and excessive diamond segments wearing.

Diamond core bit mounting and replacement

Follow these directions, refer to figure 4:

- before mounting or removing the core bit (F) always unplug the core drill motor;
- lubricate the core bit and the core bit spindle thread in order to make easier, after use, to remove the core bit;
- if you your core bit connection doesn't match the core bit spindle (ex. 1/2 G), use a proper adapter available among CARDI accessory;
- if available interpose a quick release device (E) between the core bit spindle and the core bit (as shown in figure 4);
- before starting to drill make sure that the core bit is firmly screwed on the core bit spindle.

Stand



Warning: for your safety, make sure that the drill stand you are using is compatible with the diameter of the core bit and that it is compatible with the power of your core drill motor, shown on the data plate.

The minimum number of bolts you must use to fasten your drill motor is written on the *Technical Data* sheet.

Fastening the work piece and size of the work piece

- if the work object is a block and not part of a structure, fasten it in order to prevent its movement;
- prevent the work piece from shifting, moving or falling when you are cutting.

Environmental conditions

- don't expose the machine to rain, ice or snow;
- prevent water or any other liquid from coming into contact with the electric parts of your machine;
- do not use the core drill in explosive atmospheres, for instance in presence of inflammable liquids, gas or dust. The electric core drill motor produces sparks which can ignite dust or smoke.

Overhead drilling (ceiling drilling)

You can perform overhead drilling (upward) when the core drill is used in the dry mode. Overhead drilling is allowed in the wet mode ONLY if you use proper water collecting devices in order to avoid water coming into contact with any electrical parts. These devices are available as CARDI accessories.



Warning: the possible drop of the core can be dangerous. Watch out!

Operating instructions

After having followed the instructions given in the previous paragraph *Preliminary operations*, follow these operating instructions:



Warning: do not touch any moving parts of your diamond drill when operating.

- switch on the core drill motor, keeping the core bit not in contact with the material to be drilled. After this operation, using the moving system of the stand, move the carriage with the core drill motor and the rotating core bit closer to the material and, pressing lightly, drill about 1 cm into the material. This operation is very important because, if correctly carried out, leads to a perfect centring and makes drilling easier. In any case, refer to the directions provided by the manufacturer of the drill stand;
- if you want to operate in the wet mode, open the valve (the valve is open when the handle is parallel to the water stream). The water should come out from the centre of the core bit.
- after the centring operation, increase the forward speed. On one hand, a too low forward speed leads to polishing of diamond sectors, decreasing their drilling capacity. On the other hand, a too high forward speed, leads to a quick segments wear.
- when drilling, make sure that the rotation axis of the core bit doesn't move and avoid any possible movement of it. When the core bit rotation axis moves, the friction between the wall of the hole and the core bit leads to a considerable power loss. This happens for example when the stand is not firmly fastened to the material to be drilled.
- if you can not continue drilling, you can make a new hole around the old one (over-drilling), keeping the same rotation axis. The diameter of the new hole must be at least 15-20 mm bigger than the diameter of the old one;
- drilling materials containing wood, cork, rubber, foam polystyrene can lead to problems moving forward the core bit. If you have this kind of problems, pull the core out of the hole and remove all materials listed before that don't allow the core bit to go on and then continue with drilling operations;
- in case the electric power goes off, set the switch to the OFF position, in order to prevent the machine from accidentally self starting;

Once the hole is completed, you should:

- switch the motor off, keeping the water flowing;
- using the moving system of the stand, pull the core bit out;
- stop the flow of water;
- do not touch the core bit after performing a drill. The core bit can be very hot and cause severe burns;

Mechanical clutch and core bit jamming

- be ready to turn the switch of your core drill motor off, in case of a core bit jamming;
- your CARDI core drill motor is equipped with a safety mechanical clutch that comes into operation in case of sudden stop of the core bit rotation. Despite your drill is equipped with this device, you must always be watchful and be ready to switch off the motor.

- in case of jamming, after having switched the motor off, try to unclamp the core bit using an hexagonal spanner hocking on the core bit connection;
- alternatively you can use a chain spanner, paying attention not to damage the core bit.



Warning: do not try to unclamp the core bit with the motor is on, or helping yourself with the motor.

Electronic devices

Your core drill motor is equipped with a CARDI multifunction electronic device that includes a soft-start and an electronic clutch;

- the soft-start allows the motor soft-start, reduces current peak that occurs when you switch the motor on, helps you when you begin drilling, allowing gradual core bit rotation and avoiding jerks at your arm, and allows you to use your core drill connected to the household electric outlet equipped with automatic switch;
- the electronic clutch makes sure that the current absorbed by your core drill, proportional to the motor load, is below the safety upper limit and, in case the current absorbed exceeds the limit, cuts off power to the motor, preventing damage. When the overload is over, the device gives back power to the motor that begins working again;
- if the electronic clutch operates frequently means that the core drill is not used properly. Possible causes can be a not suitable forward speed, an excessive friction between the core bit and hole wall or an excessive drilling depth.

Drilling deeper than the core bit length

If you want to make a hole deeper than the core bit length proceed as follows:

- drill till the end of the core bit;
- pull the core bit out of the hole and remove the core;
- place a proper core bit extension between the core bit and the core drill thread;
- insert the core bit in the hole and proceed drilling.

Maintenance - Service - Warranty

Periodic maintenance

- at the end of the work, after having removed the core bit, blow compressed air inside the rotating motor in order to remove dust and powder. Do this operation wearing protective goggles;
- before starting any other cleaning, maintenance or lubrication operation make sure that the core drill motor is unplugged;
- keep lubricate the core-bit shaft thread;
- keep your core drill clean and dry, in particular its handles;
- never use solvents or other harsh chemicals for cleaning your core drill motor;
- after use put your core drill in a dry, safe and inaccessible to children place;
- gears are lubricated by lubricating oil and grease which are suited for any external temperature. You don't have to check the oil level or to fill it up.
- always unplug the core drill motor during check or replacement;

- never unplug the core drill motor by pulling the cord;
- inspect often the feeding cable and extension cords, making sure that they don't have any damage like cuts, abrasions or live conductors. If you find a damage, ask a CARDI authorized service centre for replacement;
- do not use the core drill motor with damaged components or with malfunctions, in particular when the switch doesn't work properly. In these cases, ask to a CARDI authorized service centre for replacement.

Service

- after 250 hours of work, bring your core drill motor to a CARDI authorized service centre for periodical check;
- any repairing must be carried out by CARDI authorized service personnel only. Ask your dealer for the list of the CARDI authorized service centres;
- your core drill motor's serial number is stamped on the machine or printed on the data plate as shown in figure 9;

Use original CARDI spare parts only.

Warranty

Your product is under CARDI warranty for 12 months, starting from the date of purchase. This warranty is against faulty workmanship, flaws material and design problems. The warranty covers free components replacement, manpower needed for replacement and wearing materials such as oil and lubricants if intact before the repairing operation. The warranty doesn't cover the replacement of:

- components of the product replaced or modified by people not authorized by CARDI;
- components damaged by carelessness, not suitable use or overloaded;
- components of products from which safety devices have been removed;
- worn wearing parts replaced during repair.

This warranty does not apply to products that have been damaged by carelessness like water entering the core drill, lack of periodic cleaning and maintenance, damage of the threaded components or the spindle etc.

The life of wearing parts is variable depending on the working time and the kind of work they are used for. Examples of wearing parts are: cables, switches and plugs, brushes, commutators, clutch plates, ball and roller bearing not in oil, sealing rings, transmission spindles, filters, etc.

If during repairing under warranty, a wearing part is worn and this can affect the safety and the operation of your product, the customer is asked to pay for the replacement of these components not under warranty. If the customer refuses this, no repairing operation will be carried out.

The warranty covers free replacement of components which are defective due to wrong manufacturing or assembly, if the product is brought to an authorized service centre and if:

- the product is together with a purchasing document stating when the product has been purchased. Valid purchasing documents are invoices or delivery certificates;
- maintenance operations have been carried out every 250 working hours, replacing the worn wearing parts;
- no unauthorized people have operated on the product;
- the product has not been misused and it has been used accordingly with the directions given in this user manual;
- all safety directions have been followed.

Your CARDI product is not under warranty if:

- the product has been serviced by people not authorized by CARDI.
- damage is due to incorrect use and/or carelessness. Dents due to drops or strokes will be considered evidence of carelessness;
- damage has been caused by mechanical or electrical overload;
- damage has been caused by water, mud or any other liquid entering the product.

When your product is under warranty, in some cases, like if the CARDI authorized service personnel think the repairing is too expensive to be carried out, the free substitution of the product is possible. In addition, the substitution under warranty is provided after two fruitless reparation attempts and after the authorization of a CARDI service manager. In case of substitution, the customer is, usually, requested to pay for the worn wearing parts of the replaced product.

User-replaceable components

No components of your CARDI product can be replaced by the user. Replacement must be carried out by CARDI authorized personnel only.

CARDI service centres - Address list

Ask your dealer for a CARDI service centres address list.

Package contents

For the list of contents refer to the *Spare Parts List*, specific for your model, located in the package together with this manual.

WARNING:
THE MANUFACTURER DECLINES ALL RESPONSABILITY
IN CASE OF NO RESPECT OF THE ABOVE WRITTEN
"SAFETY AND OPERATING INSTRUCTIONS".

Products to the end of their life.



The symbol on the left, that you can find on the product or on its packaging indicates that this product may not be treated as household waste. At the end of its life the products must be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Be sure that this product is disposed correctly. You will help prevent potential negative consequences for the environment and human health. For more detailed information about what to do when your product doesn't work and is not fixable, contact the dealer where you did purchase the product.

Your product has been introduced new on the market after August 13th 2005.

This manual is subject to modifications without notice.



CARDI s.r.l.

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