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Quick Tension System QTHF

- MANUALE DI ISTRUZIONI ED USO PER: ELETTROSEGA PER CEMENTI CALCESTRUZ-ZI, MURATURA

- SAFETY AND USER MANUAL FOR: ELECTRIC CHAINSAW FOR CONCRETE

- Electric High Frequency
  Code A1M001

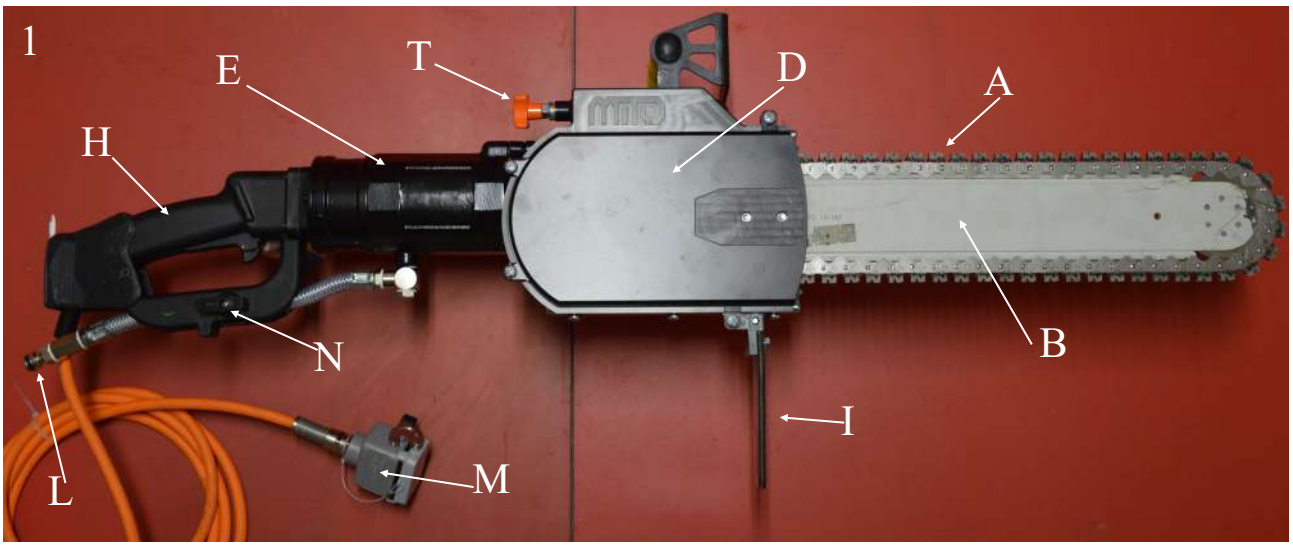
Bonomi *s.r.l. Unipersonal Company*

Head Office: Via Mario Pagano,63
20145 Milano
Italy

Facility: Via dell'Industria 2
14047 Mombercelli
Asti Italy

Phone: +39 0141 955 390

www.bonominet.it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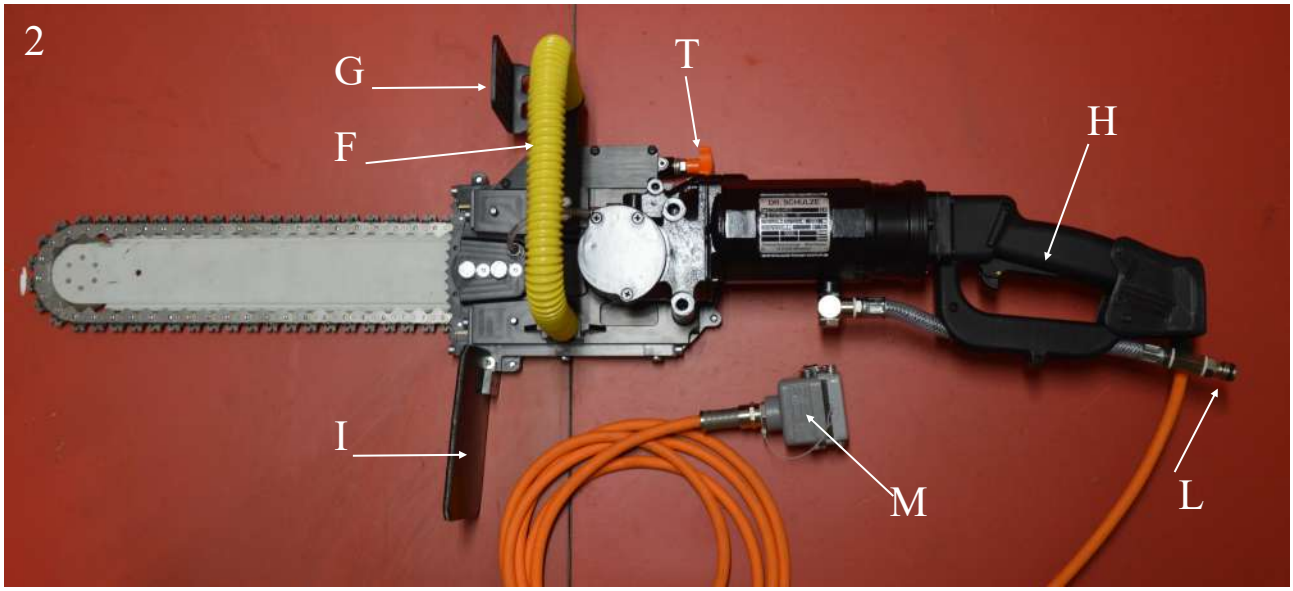
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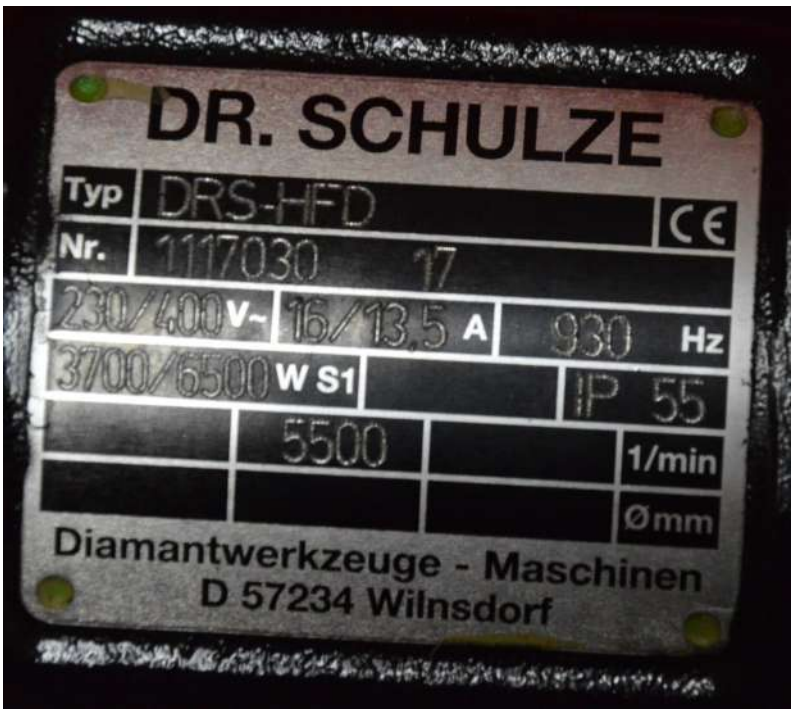

Powered By
Dr Schulze

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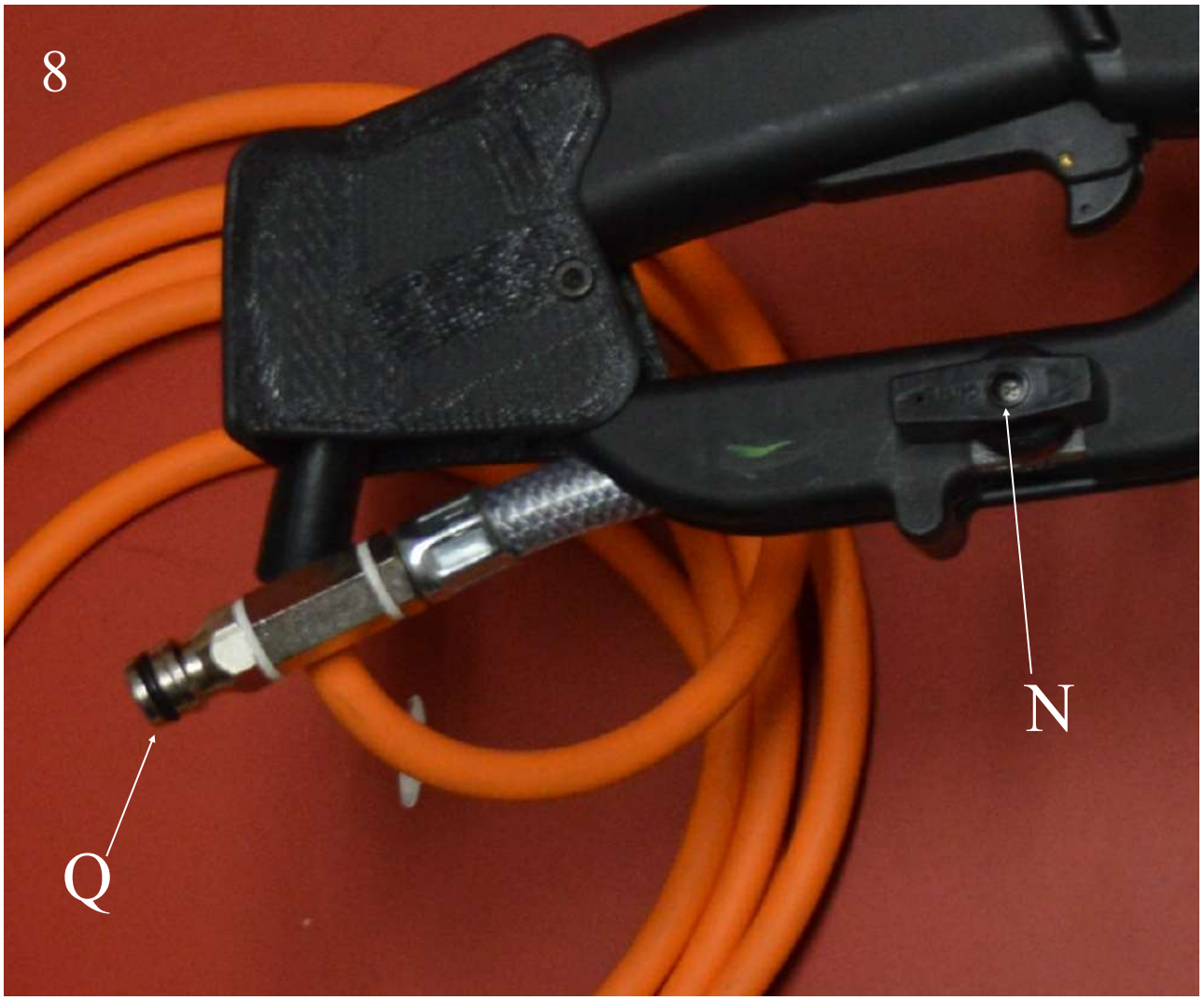


Install New Chain

10

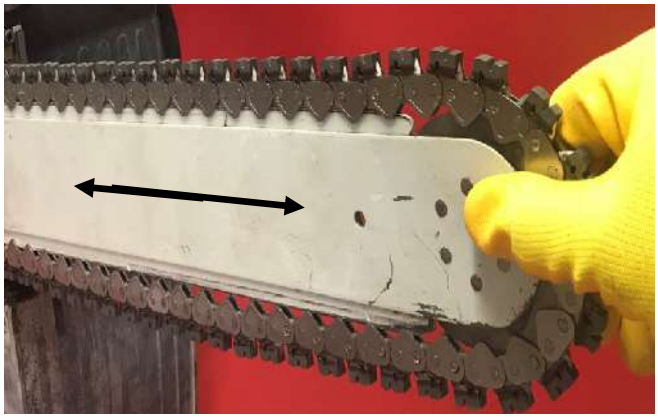
10/A

10/B

10/C

10/G

10/H



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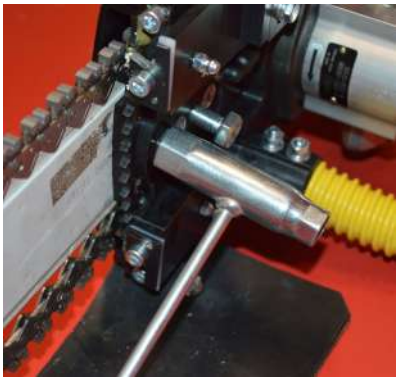
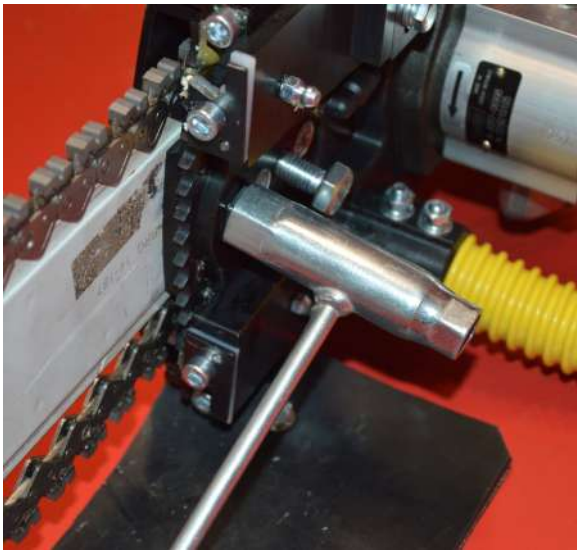


10/L

Install new Guide Bar

11

11/A



11/B1

11/B

11/C

11/C1

11/D

Install New Sprocket

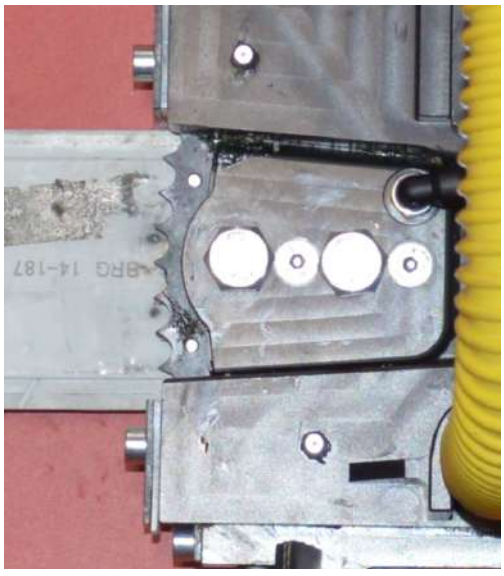
12

12/A

12/B

12/C

12/D

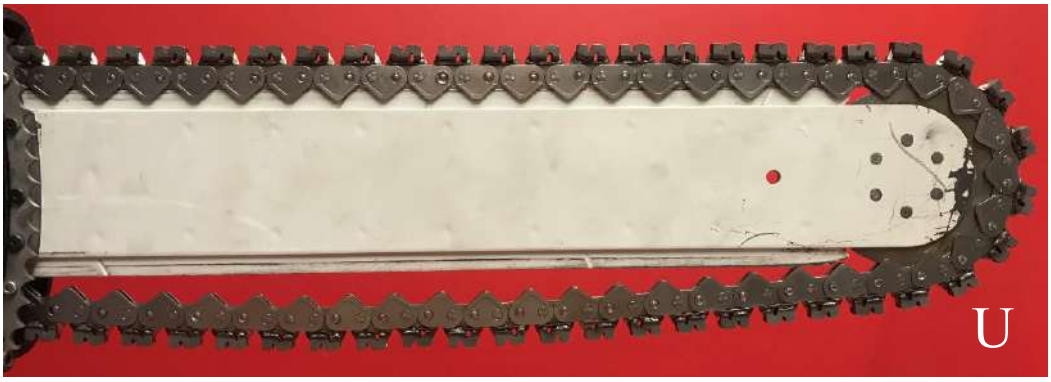


CHAIN TENSION SUGGESTED

PLEASE The chian have a direction of cutting respect it

VERY BAD

- Chain derails
- Bad cutting
- Life short
- Sprocket Life
- Snap chain



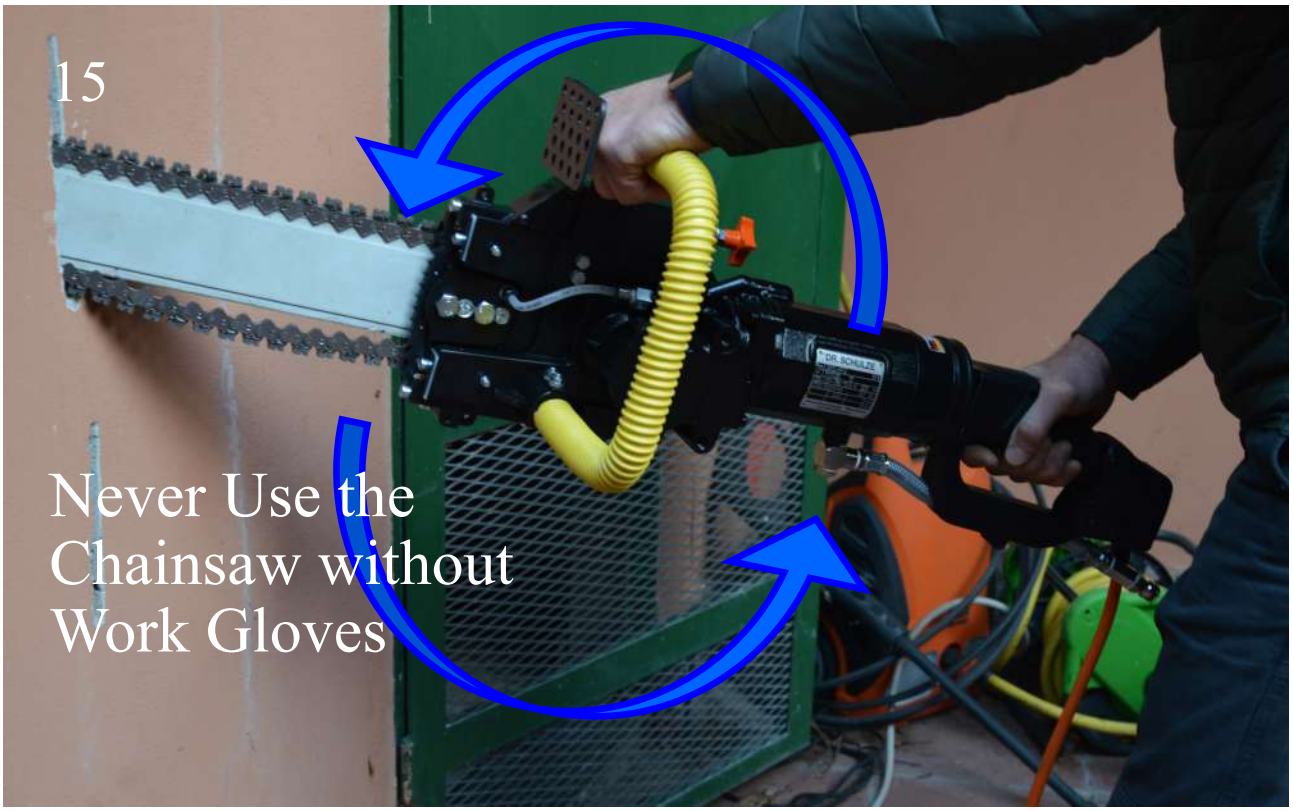
BAD

- Bad cutting
- Life short
- Sprocket Life
- Snap chain

PERFECT

QT knob

Very easy to controll the corect tension of the chain for cutting. Please educate Yourself on this new cutting system


15
Never Use the
Chainsaw without
Work Gloves


16
Never Use the
Chainsaw without
Work Gloves


17
Never Use the
Chainsaw without
Work Gloves


18
Never Use the
Chainsaw without
Work Gloves

13

13/A

13/B

13/C

QTE

Your MITO electric chainsaw is an electric power tool designed to perform straight cuts into concrete, reinforced concrete, stone, using the proper diamond chain and bar. The product needs sufficient clean water to operate and cool bar and chain through the water inlet system. Powerful and lightweight, this product is designed to perform finishing jobs by professional cutters and any kind of contractors. Follow general contractor, local and national regulations how to dispose of slurry generated during operating the saw.

Operator needs to be properly trained.

Warning read al safety precautions and instruction. Please keep these safety precautions and instruction for the future

Do not use this product to cut wood, plastic or other materials not listed above.

Do not use bars and chains different from the ones defined in this user manual.

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

1) General safety precautions

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) power tool.*

SAVE THESE INSTRUCTIONS

1) Security of employment

a) ***Keep working area clean and well lit. Cluttered and dark areas invite accidents.***

b) ***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.*

c) ***Keep children and bystanders away while operating a power tool.*** *Distractions can cause you to lose control.*

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.**

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 gear: always wear eye protection. *Safety equipment such as dust mask, non-skid safety shoes, gloves, hard hat, and 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 wrenches 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.*

d) ***Do not overreach. Keep proper footing and balance at all times****. This enables better control of the power tool in unexpected situations.*

e) ***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.*

f) ***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.*

g) ***Use auxiliary handles supplied with the tool.*** *Loss of control can cause personal injury.*

4) ***Power tool use and care***

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. 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 electric power tool if the switch does not turn it on and off or is damaged. *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 electric 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 electric 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, 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 edges do jam and are easier to control.*

g) 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.

h) Use the power tool, accessories and tools 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***

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

6) ***Particular information***

a) This diamond chain saw is only intended for industrial use and may only be operated by trained personnel.

b) Proper use extends only to the sawing of rock, concrete and masonry. *The saw must not be used for cutting pure metals. For the cutting of ductile iron pipes special chains are available in the specialist trade*

c) For operation the relevant regulations must be observed

d) Power tools must regularly (approx. 6 months) be checked on safety by a specialist according to BGV A3.

e) Never deposit the chain saw until the chain has come to a complete stop. *The rotating chain can get into contact with the surface whereby you may loose control of the chain saw.*

f) ***Do not operate the chain saw while you carry it.*** *Your clothes can be captured by accidental contact with the diamond chain.i*

g) *f a disc saw is used for cutting, care must be taken that the thickness of the cutting blade matches to the diamond chain. Never use a disc* saw with a conventional cutting disc for cutting. The narrow saw groove produced in this case leads to a jamming of the diamond chain and can lead to dangerous kickback.

2) Safety rules for your chainsaw

2.1) Earth (Ground)

a) the metallic parts of your chainsaw earthed. **Make sure that the power supply is properly earthed.**

b) make sure that the socket, extension cords and multiple sockets you use, have the earth connection.

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.

2.2) Water supply: Safety rules

a) Connect the frequency converter FU6U via the plug-in nipple (25) to the water supply. The ball valve must at any time be on the side of the water supply. Now connect the FU6U with the chain saw via a water hose with a length of approx. 4,2 m (length of the cable).

b) **Attention: water pressure max. 3 bar. Water may only be connected to ball valve, as otherwise a damage on the casing may appear by upcoming water pressure.**

c) Please use a GARDENA coupling as the connecting piece to the machine and the frequency converter. This can be obtained from a garden center or builders' merchant made of plastics. A water coupling of brass of high quality can be received directly from Bonomi.

d) Use only clean water, as dirty water will considerably disturb the heat exchange on the cooling surface and thereby the motor can be totally damaged.
Else the seals wear out very quickly.

2.3) Checks and precautions to avoid structural damage and damage to a building

a) Before operating, talk to the construction manager or the planner in order to make sure that cutting doesn't:

b) damage the structure of the building and change the structural characteristics of the construction;

c) damage any water or gas pipeline or any electric mains.

d) Particularly care if presence of gas pipeline, cutting iron sparks is present and can be a comburent for the gas

2.4) Checks and precautions to avoid damage caused by the fall of the cut out work piece

a) before operating, make sure that the possible falling of the cut out work piece doesn't make any damage. In any case, secure the area where the work piece can fall and signal the danger;

b) if the possible fall of the cut out work piece can damage anybody or anything, make sure to have a proper system in place to secure it safely.

2.5) Fastening the work piece and size of the work piece

c) if you are operating on a block 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.

2.6) Suitable Bars and Chians

d) Use bars and chains for wet cutting. Bars and chain for concrete, reinforced concrete, stone, are suitable for your product. Your product is not suitable to cut wood, plastics, metals (except reinforcing bars in concrete).

Use only bars and chains provided by Bonomi or authorized dealer.

2.7) Bars and Chains not to be used

Do not use bars and chains other than the ones prescribed by Bonomi. Do not use chains for wood, tungsten carbide chains or chains for masonry. Chains for wood or masonry generate a kickback effect when plunging: for this reason this kind of chainsaws are equipped with specific safety systems not present in your concrete chainsaws.

2.8) Protective devices

Before operating make sure to wear all safety devices listed below:

Always wear safety goggles

Always wear safety gloves

Always wear ear protection

Always wear safety shoes

2.9) Other safety directions

a) Keep handles (pointed with H and F in figures 2) dry and clean. Make sure there is no oil or grease on them. Greasy or wet handles can lead to lose control of the chainsaw.

b) Make sure to firmly grip the product using both hands on handles (fig. 5). Firmly hold the product with both hands till the chain has come to a complete stop.

c) When storing or transporting the product make sure the protecting cover is on the bar (B) and chain (A).

d) When operating, keep proper footing and balance for a full control of the product. Improper footing and balance, operating on ladders or on unstable structure can lead to serious injury or death.

e) When operating do not excessive stretch out your arms and do not perform cut higher than your shoulders. Arms stretched too far out or cuts above shoulder height can lead to loss of control of the chainsaw.

f) Keep the chain sharp (see "Operating tips" paragraph).
A not dull chain leads to an excessive feed by the operator and this can lead to lose control of the product.

g) Do not use the product if the cover (D), the front panel (G), the slurry protector (I) or any other protection devices is damaged or not properly working. Those devices prevent to get in contact with moving parts and to protect the operator from slurry and debris.

h) Do not use the product if chain and/or bar are damaged.

i) When performing vertical cuts, do not operate using the product upside down (fig. 18). Water and debris can hit the operator and can wrongly flow over the product leading to a possible danger. **For this reason do not perform overhead cuts!!!**

j) **Do not place the bar and chain in a previously made cut performed with a narrower chain (less than 6 mm).** This can lead to a kickback.

k) **Do not force the bar, during cutting, to torsion effort**

l) **Do not force the bar, during cutting, to bending effort**

m) **Never get your hand near the rotating chain.**The chain can touch your hand during a kickback.

n) **Always hold the machine in a firm grip with both hands. Bring your body and arms in a position in which you can control the rebound forces.** The operator can control the rebound and reaction forces by appropriate precautions.

3) Checks before operating

3.1) Earth (Ground) check

Make sure the power supply is properly earthed;

Warning: proper earthling is important for your safety. If not sure, ask a qualified electrician for a check.

3.2) Electrical connection

a) when you have to operate far from a power supply, 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;

b) 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;

c) follow the chart shown in performance data sheet annexed to this manual, for the choice of the right section of the conductors;

d) 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 performance data sheet annexed to this manual, considering the total length of the extension cords;

e) remember that the more an extension cord is long the more the voltage drop is high and the worse is the operation of your product. Don't use extension cords if you have to operate too far from the power supply.

f) Do not switch on the chain saw as long as it is located in the workpiece. Only begin to move the chain in the cut when the chain has reached full speed. Otherwise the chain can be blocked, rebounds from the workpiece or causes a kickback

3.3) Electrical conection

a) <u>230 volt</u>:

Connect the MITO via the frequency converter FU6U and via the adapter cable (M fig n°2) only on a properly earthed shockproof socket (n° 23). If required use only high quality extension cords with sufficient cross section.
Up to 100m length - 3G2,5 quality, e.g. H 07BQ-F or H 07RN-F.

a) **430 volt:**
Connect the MITO via the frequency converter FU6U only on a properly earthed shockproof socket (n° 23). If required use only high quality extension cords with sufficient cross section.
Up to 100m length - 4G2,5 quality, e.g. H 07BQ-F or H 07RN-F

Take care that the extension cord is not rolled up on use for reaching a sufficient heat removal. Consider that the MITO takes the maximal power from the electrical mains. Therefore do not connect other users to the concerning fuse, as the mains and the fuse will then be overloaded. Please take care that the MITO is only connected to an earthed 16A CEE socket. If you operate the machine at a higher assured socket, you risk in case of any fault the total burning of the electronic. According to the relevant regulations machines in the commercial sector may be operated only by means of a building power distribution system. Ensure that a residual current circuit breaker of type B, or B + is integrated, since an FI type A can fail in the event of a fault. By the high leakage current the machine can electrify when touched, if the ground line is not connected correctly. In this case absolutely disconnect the mains plug immediately and check the ground wire

MITO and FU6 can be used at a generator or a transformer provided by the construction site, if following conditions are kept:
-operating voltage within +5% and –10 % to nominal voltage
-integrated automatic voltage controller with start amplification
-frequency 50 – 60Hz; max. 65 Hz
-AC voltage, power output at least:
230V – 4kVA
400V – 11kVA
Do not use any other devices at the generator/transformator at the same time. The switching on and off of other devices can cause undervoltage and / or over voltage peaks that can damage the machine.

3.4) Change between 230V and 400V

- **If you change the operation mode of the MITO chain saw between 230V~ and 400V~3P the frequency converter FU6U has to be disconnected for approx. 2 minutes in order to discharge the intermediate circuit and re-initialize the controller**.

3.5) Connection to a water supply

a) Connect the frequency converter FU6U via the plug-in nipple (5) to the water supply. The ball valve must at any time be on the side of the water supply. Now connect the FU6U with the chain saw via a water hose with a length of approx. 4,2 m (length of the cable).

b) **Attention: water pressure max. 3 bar. Water may only be connected to ball valve, as otherwise a damage on the casing may appear by upcoming water pressure.**

c) Please use a GARDENA coupling as the connecting piece to the machine and the frequency converter. This can be obtained from a garden center or builders' merchant made of plastics. A water coupling of brass of high quality can be received directly from Bonomi use only clean water, as dirty water will considerably disturb the heat exchange on the cooling surface and thereby the motor can be totally damaged. Else the seals wear out very quickly.

d) In order to clean the mono rail and chain after completion of the work, the diamond chain saw must be operated at idle speed with maximum water flow for at least 10-20 sec.

e) **Attention: Under full load there are at least 1 l of water per minute required. For cooling and cleaning the bar / chain during the operation of the chain saw, we recommend a larger water flow - see section 2.1 Technical data. Open the ball valve after use, so that the cooling gap can empty. This is mainly required in the cold season - danger of frost.** Connect the water hose to the quick hose

4) Bar, chain and Sprocket

4.1) How to use the bar

a) the bar (B) needs to be periodically flipped over in order to wear out eavenly on both sides;

b) the bar wears out. Usually you need to replace it every 2 to 3 times you replace a chain;

c) a correct chain (A) tension allows a longer bar life. See paragraph *4.2* .

4.2) How to use the chain

Chains usage lead to chain stretching;

a) **An optimal chain tension reduces chain and bar wear and increases productivity and safety.**

b) Check chain tension before use and stop periodically during operation to make sure the chain tension is correct;

c) An excessive tension leads to higher friction, reducing cutting performance and increasing bar and chain wearing;

d) A loose chain reduces cutting performance and can lead to the chain to disengage from the bar;

e) Follow steps in paragraph *4.3) Mounting and replacing bar and chain* to set the correct chain tension;

f) Check the chain more frequently when the chain is new since new chains have higher chain stretching.

g) your electric chainsaw machine is equipped with a rapid tensioning system called Quick Tensioning which greatly facilitates the chain tensioning manoeuvres and thanks to this the chain can work with the correct tension without the aid of particularly complicated mechanical manoeuvres, simply by operating the knob shown in figure 1, T

h) Pay close attention to the use of this easy and immediate tensioning system and perform tension tests before cutting in order to get used to the tension system

i) Never perform the tension by turning the knob shown in figure 1, T during the cutting

j) The tensioning of the chain must be carried out with the guide bar pulled out of the cut and with the chain stopped. Once the ideal tension has been reached, as showed on image U,V,Z, page 9 of this manual, activate the electric saw motion to check if the tension reached is maintained. If the tension is optimal, as described in point 4.2, you can continue with the cutting operations.

k) The correct maneuver is: Remove the guide bar from the cut, stop the engine visually check the conditions of extension of the chain with respect to the guide bar, (the correct chain tension is shown in figures U, V, Z in page 9) operate, if necessary, the tensioning operation of the cutting chain by acting on the knob of fig. 1, T.

l) Since the operation is very simple, it is recommended to avoid the over tension of the chain, the excessive tension of the chain is not recommended before starting the cut and can reduce the chain life

m) The equipment allows tensioning and give up the chain with a simple screwing or unscrewing operation of the indicated knob, **it is therefore the operator's responsibility to realize that excessive tension can cause damage to the equipment as well as to people**

n) We invite any operators to take good knowledge of the use of this easy system that on the one hand is very effective in terms of operator fatigue and cutting times on the other hand if used with abuse can induce the chain to work in conditions of overload and permanently damaging it, **thus creating a dangerous condition.**

4.3) Mounting and replacing bar and chain

a) Before mounting or replacing the bar (B) or the chain (A) make sure the chainsaw is unplugged (M). Do this operation in a safe place, use protective gloves and place the product on a stable surface.

Installing Chain (A) See figure 10, page 10, and follow these steps:

a) Unscrew and remove the side cover screw (11/A)

b) Remove the cover (11/B);

c) loosen the 11/A nut on the back of the machine the guide bar will be released and can slide back and forth,

d) Using the, tension knob (T). Return the sprocket to the initial position 11/C,

e) Push the guide bar towards the sprocket 11/D in order to create the necessary space for inserting the chain,

f) Easily extract the old chain,

g) Insert the new chain on the guide bar 10/A and wind the chain around the guide bar head bearing10/B, to have the chain saving at the back of the sprocket 10/C,

h) Install the chain on the sprocket proper position 10/C, **please note** the reverse chain made specifically for this machine has a sense of cutting, see fig Y page 9, make sure not to install the chain in the opposite direction, the assembly of the chain,

i) in the wrong direction compromises the functionality of the same as well as damage it irreparably,

j) Push the guide bar by positioning the chain in a manual tension position, see page 6, fig 10/G and 10/H.

k) Screw and fix on the back of the machine body the 2 nut showed on 11/A and secure the guide bar and the cover to the machine body. Operate with the knob, T as indicated in 10/L and tension the chain respecting the indications given in the previous point 4.2

l) Installing Guide Bar (B) see figure 11, page 7, and follow these steps.

m) Unscrew the nut on the back of the machine 11/C and remove the cover. The guide bar will be released and removable 11/D

n) Using the tension knob (T), bring the sprocket back to its initial position as shown in fig (11/C E 11/C1) on page 7)

o) Replace the new bar by positioning it in the predetermined position of the machine body itself.

p) Temporarily tighten the nut on the back, 11/A making sure that the position of the bar is adequate to insert also the new chain

q) Proceed with the greasing of the machine using the special greasers on the back of the machine fig 12/D

r) continue the positioning and tensioning operations of the chain as indicated in the previous points

4.4) Mounting and replacing the sprocket

The back sprocket wears out and needs to be periodically replaced; replacement takes place usually every 2 to 3 chain replacements. See figure 12:

Before starting, make sure the chainsaw is unplugged (M).

f) Make sure to be in a safe place when performing this operation. Place the chainsaw on a stable surface;

g) unscrew and remove the side cover screw (11/A);

h) remove the side cover (D) of the chainsaw

i) Remove the elastic spring, from the pinion itself (12/A) (12/B) ;

j) Clean the housing area of the shaft, leaving a veil of oil,

k) Replace the old sprocket with a newone

l) Proceed backwards by fitting the new sprocket, the washer, as shown in figure 12/F

m) Proceed accordingly with the operations described previously of replacing the chain and or the guide bar.

5) Frequncy converter

- The electric motor of the diamond chain saw MITO is controlled by the water-cooled frequency converter FU6U.
- Operate the frequency converter only with a type B residual current circuit breaker. Please wait

approximately 20 s before the machine is started after switching on the main switch.

- In the event of a fault or power failure, switch off the main switch and check the cause (fuse). Before switching on again, switch of the main switch for 60s.

- **Always keep the connectors clean and tight and secure. Water or moisture in the connector may cause serious damage to the electronics. Do not use water jet or high pressure cleaners to clean the converter and the machine. Max. Water pressure 4 bar.**
- Status and error outputs are showed to the user via an LED attached to the frequency converter.

- **Status display**

  - If there is a status change the **green LED** on the side of the converter flashes/shines. The number of pulses after a longer break allows the assignation of the status according to following chart:

Status code	Meaning	Measure
red permanent on	Low voltage	- Increase wire cross section (extension cord) - Check supply cable (cable interrupted) - Use a generator with more power
red 1x pulse	Over temperature motor	- Increase water flow (cooling of motor or converter is too low; water temperature is too high) - Check hose connection Never use waste water for cooling!
red 2x pulse	Over temperature frequency converter	
red 4x pulse	Overcurrent	- motor stops, motor has been used in the overload range - Check motor cable and plug connection for damages (short circuit)
red 5x pulse	Overload	- Reduce machine load, motor is operated in the overload range
red 6x pulse	Encoding error	- Check plug contacts of machine and frequency converter for dirt and damages - Update frequency converter (encoding unknown)
red 7x pulse	Over current power modul	- Check motor cable and connectors for damages (short circuit)

- **Failure display**

- If a failure occurs the **red LED** on the side of the converter flashes/shines. The number of pulses after a longer break allows the assignation of the status according to following chart:

Status code	Meaning	Measure
green off	Frequency converter without voltage supply	- Switch on main switch - Use adapter calbe type FU06543 - Check supply cable (cable interrupted) - Check mains voltage (fuse)
green flashing	Intermediate circuit is charged	- Wait
	Frequency converter waits for machine	- Connect machine - Check connectors of machine and converter for dirt and damages
	Service intervall exceeded	- Bring converter to service station
green on	Frequency converter ready	- Converter can be used

- Status display changes its status automatically. Fault signals will be deleted when the machine is restarted (if the cause of defect has been removed).

6) Operating instructions

6.1) Follow those steps:

To perform a cut, after having carefully read the paragraphs above and having checked grounding:

a) with unplugged chainsaw, make sure the chain is correctly tightened;

b) plug the chaisaw in;

c) make sure the PRCD-GFI works properly according*;*

d) press the green Reset button (Q) on the PRCD-GFI: the red light (S) will light up, showing that power is available;

e) connect the chainsaw to a power supply as shown in paragraph *3.4) Connecti to a water supply*;

f) Turn on the valve (P) letting water in;

g) Firmly hold the saw with both hands as shown in figure 5;

h) Make sure the chain is not in contact with anything and then switch on the saw (O). In order to avoid an unintentional start, the switch is equipped with a *lock off* system. This means that you need to follow two steps (I and II) to switch on the chainsaw as shown in figure 3 and 4;

6.2) Cutting methods

a) Lay out the cut with a marker: the cut must be straight;

b) To start, plunge the nose of the cutting bar straight into material till you reach the desired cutting depth. Keep the bar perpendicular to the wall;

c) Rock the saw when cutting (figure 15). This leads to leverage effect that makes cutting easier.

d) Do not apply too much feed force. A good feed force leads to best cutting performance, excessive feed force leads to lower RPM and lower performance;

e) Do not perform non-straight cuts and do not tilt side by side the chainsaw: these would lead to motor overload and damage bar and chains;

f) To stop, release the switch (O);

g) **Warning**: the chain keeps running for some seconds after the switch has been released;

h) Close the water valve (N);

6.3) Horizontal cuts

n) You can perform either horizontal or vertical cuts. When cutting horizontally make sure the work piece does not press on the bar: use the product as shown in figure 17. Do not use the product with handle downward as shown in figure 16. When cutting an opening such as a window perform first horizontal cuts and then vertical ones.

6.4) Cutting reinforced concrete

o) When cutting reinforced concrete rock the saw as shown in figure 15 in order to keep cutting concrete. This avoids that the segments gets polished reducing cutting effectiveness;

6.5) Re-Sharpening the segments

p) If you experience reduced cutting effectiveness for polished segments, re-sharpen the segments using a sharpening stone (not included). Make sure the stone is properly fastened: see stone manufacturer directions. Perform re-sharpening with water, cutting a 1" cut in the sharpening stone.

Warning: do not perform re-sharpening holding the stone by hand or your feet.

7) Maintenance – Service - Warranty

7.1) Cleaning, maintenance and lubricating

At the end of the working day, perform the following operations:

Warning: do not clean you chainsaw with water jets or high pressure cleaner;

Warning: remove bar and chain before proceeding with the following operations.

a) Blow compressed air on the motor, with the motor running in order to remove slurry. Use protective goggles when doing it.

a. **Warning:** unplug the chainsaw before proceeding with the following operations.

b) Check the power cable and extension cords for damages. If damaged, contact a Bonomi authorized service center for replacement.

c) With bar and chain off and after having disassembled the cover, remove the slurry from the chainsaw and add grease (11/M)

d) Oil the chain tensioning system;

e) spray, rotating the guide bar head bearing, with the suggested spray grease as shown in fig 13/A, 13/B, 13/C pag.16

f) Dry bar and chain;

g) Oil bar and chain;

h) keep your product clean and dry, in particular its handles;

i) never use solvents or other harsh chemicals to clean your product;

j) 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.

k) after use put your saw in a dry, safe and inaccessible place to children place.

l) 7.2) Service

m) Some components of your chain saw wear. It depends on how long you used the product and how heavy was the work. Bring your product to an authorized Bonomi service center for a check after 6 months if heavily used or every year if regularly used. Wearing parts are: bar, chain, back sprocket, brushes, rotor, power cables, switch, sealing rings, bearings, and lubricants.

n) any repairs must be carried out by Bonomi authorized service personnel only. Ask your dealer for the list of the Bonomi authorized service centers.

o) Use original Bonomi parts only.

p) your core product serial number is stamped on the machine or printed on the data plate as shown in figure 7

q) No components of your Bonomi product (except bar, chain and back sprocket) can be replaced by the user. Replacement must be carried out by Bonomi authorized personnel only.

r) **Bonomi Service Centers:** Ask your dealer for a Bonomil service centers address list.

7.3) Bonomi Warranty – 12 months

According to current European Directives, the manufacturer must provide a 12 month warranty on the product..

Some countries may vary. Check with your local Distributor.

If your chainsaw is not functioning properly or has faulty workmanship or flaws in material within 12 months from the date of purchase Bonomi will replace, free of charge for the owner, defective components or, at Bonomi discretion, the whole product, if:

The product has been purchased within 12 months: invoice or delivery certificates are needed to prove this;

The product has not been misused. The product must have been used properly according to the directions provided in this user manual;

no unauthorized people have operated on the product;

This warranty does not apply if malfunctioning is caused by worn out parts.

8) Operators Training

The product is easy to use, however a brief training allows better safety and performance.

Bonomi and some authorized distributors provide, free of charge, training sessions at their locations.

9) Package Contents

The chainsaw package includes, wrench and:

- User Manual.
- Wrench
- Documents: Data sheet, Exploded view drawing and spare parts list.

Save these instructions for future consultation

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 2017
This manual is subject to modifications without notice.