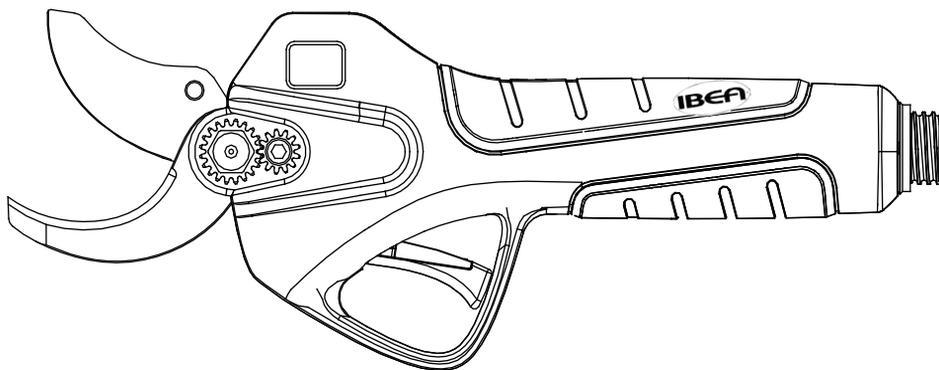




**FORBICI ELETTRICHE
PRUNING SHEARS
SÉCATEUR ELECTRONIQUE
KRATOS 40**



Manuale dell'utente

User manual

Manuel d'utilisation et d'entretien

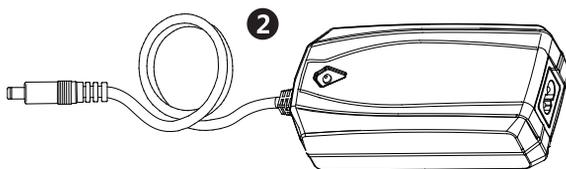
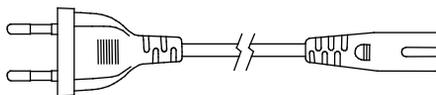
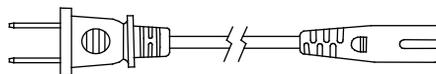
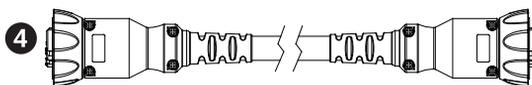
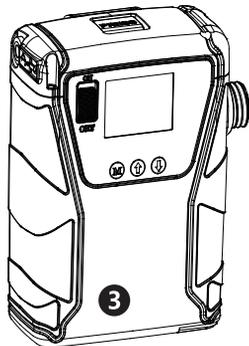
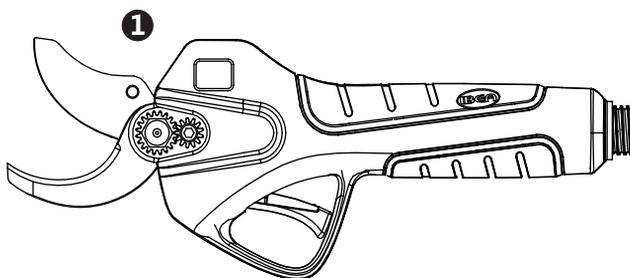
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Dear customer, thank you for choosing an Ibea product. In order to use at best this product, we advise you to read this manual in all its parts and keep it carefully for future reference. If you find any anomalies or malfunctions, do not hesitate to contact Ibea assistance center closest to you.

Packing list

1. Pruning shears
2. Battery charger
3. Battery pack
4. Accessories



■ Product description

This product is a battery electric scissor, consisting of a fixed blade, mobile blade, lithium battery, battery charger, power cable, tool bag and other components. It is designed for pruning and trimming branches with a maximum diameter of 40 mm. Simple and practical to use, it has an efficiency of 8-10 times higher compared to traditional manual scissors. The cutting quality is significantly better compared to manual scissors.

■ Technical specifications

Basic informations of electric	
Rated voltage	43.2 V DC
Lithium battery	43.2 V - 2,5 AH
Charger input voltage	AC 110V ~ 220V
Battery charging time	2 - 2.5 hours
Battery working time	7 - 9 hours (depending on the use)
Motor rated power	240 W
Max power	1.296 W
Weight	860 g (battery excluded)

Battery charger	
Input voltage	110-240 V ~ 50/60 Hz
Output voltage	50.4 V
Rated output voltage	108 W

Cutting range (Max)	
Cutting diameter	40 mm
Operating temperature	14°F~149°F / -10°C~65°C



Please read the precautions and instructions for use carefully. Failure to comply with the safety rules can cause electric shocks, fires, burns and other accidents.



Do not use pruners on rainy days. Do not expose the tool to water jets.



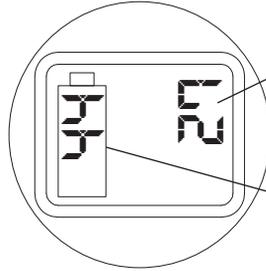
Do not put your hands near the cutting areas of the pruners during use.



Pruners must never come into contact with electrically charged equipment.

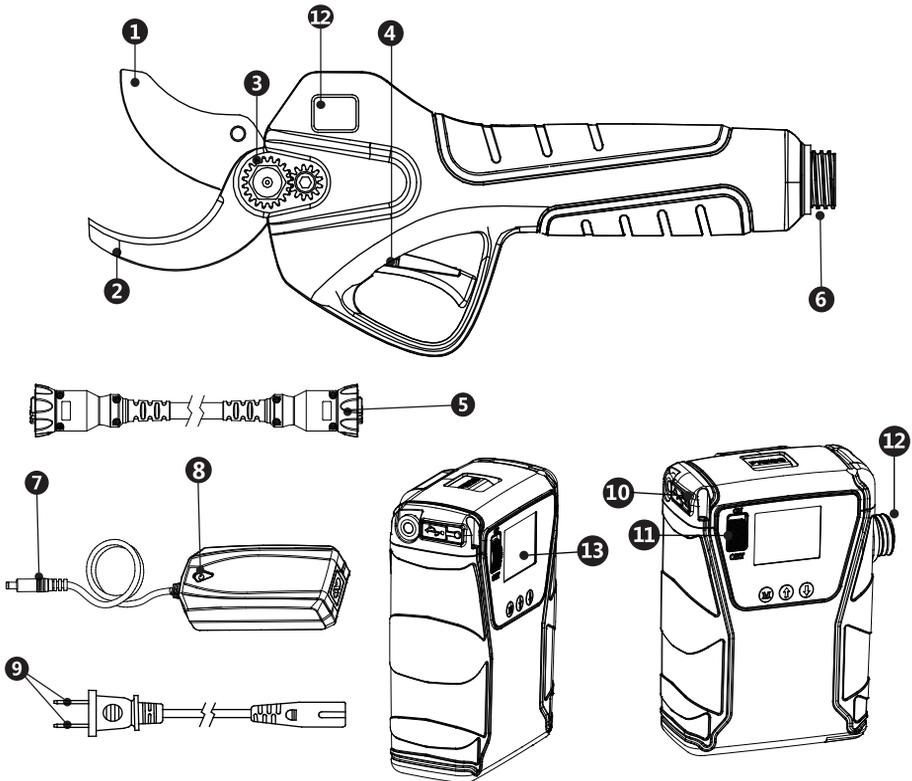
■ Product components

1. Movable blade
2. Fixed blade
3. Latch pin
4. Trigger
5. Fixed power cord
6. Power input connector
7. Charger AC plug
8. Charger LED light indicator
9. Charger output plug
10. Battery charging jack
11. Battery power switch
12. Battery output connector
13. Battery display



For 2 sec. display shows the total n. of cuts, later appears the n. of cuts from the beginning of session.

Battery level



■ Error reports

In case of any fault, please handle it according to the prompt code on the display screen.

Fault prompt on the display screen:

When using this product, if the following code appears on the screen, repair or handle it according to the corresponding fault prompt.

Meanings of shears alarms				
Alarm content	The board LED flashes several times	The buzzer of the card sounds several times	Error code indicated on the display	More instructions
No error	0	0	E00	
Current sensor error	2	6	E02	
MOSFET failure	3	6	E03	
Hall blade sensor failure	4	3	E04	
Overcurrent protection	5	5	E05	
Opening blocked / rotor blocked	6	3	E06	
Phase error	7	4	E07	
Overcurrent / Undercurrent	8	1	E08	
Overheating MOS/chip	9	6	E09	
Communication error	10	2	E10	
Bit error	10	7	E10	
EEPROM error	11	6	E11	
Phase detection failure	12	4	E12	
Programming error	13	6	E13	
Scheduled maintenance	15	5	E15	
Battery error	16	9	E16	
Communication error between board and batteries	17	10	E17	

■ Battery screen functions description

Single cells voltage

C1 C2 C3 C4 C5 C6
3.8V 3.8V 3.8V 3.8V 3.8V 3.8V
C7 C8 C9 C10 C11 C12
3.8V 3.8V 3.8V 3.8V 3.8V 3.8V

Cutting times at present

 
1000 times
Total cuts
30000 times



Maintenance cycle
300000 times

Recharge cycles

115

Battery capacity at present

 75%

■ Charging the battery

It is recommended to charge new battery before the first use of the electric pruner. To charge the battery, ensure the battery power switch is in OFF position. Plug the battery charger output into the battery charging jack, plug the charger into a power socket and the switch to ON position. The LED indicator on the battery will turn RED during charging and turn GREEN when the battery is fully charged. The battery takes about 2 hours to obtain full charge. A fully charged battery can sustain 6-8 hours of continuous pruning operation.

■ Operation

1. Connect the Pruner to the power cord (as shown in Figure 1).
2. Connect the power cord to the battery (as shown in Figure 2).
3. Put the battery on your waist.
4. Turn on the power switch.
5. Pull the trigger two times continuously and quickly to start the Pruner, so that you can start working normally with the Pruner.
6. If the branches are small in diameter and you want to speed up the cut, set the blades opening at 30 mm instead of 40 mm. To do this proceed as follows: keep the trigger pressed for 2 seconds, until you hear an acoustic signal. To restore the previous setting, repeat the procedure.

CAUTION

If the battery switch is in the ON position and you do not use the pruner or run unloaded cuts for the duration of 10 minutes, the machine may go into STAND-BY mode. Press the **M** button on the battery to turn the machine back on. The STAND-BY function could also be activated for continuous cuts of thin branches. The STAND-BY function is essential for safeguarding the battery in the event the operator forgets to turn off the battery at the end of the work.

Figure 1

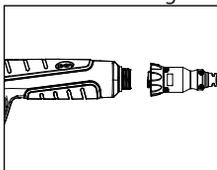


Figure 2

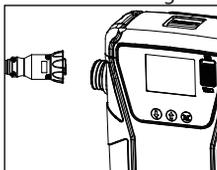
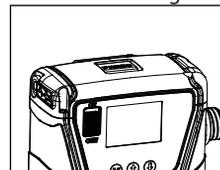


Figure 3



■ Packing up

1. Press the trigger and hold for a few seconds and then release, the blade will close and will not open .
2. Switch off the battery. disconnect the power cord from battery.
3. Tidy up, clean up and pack the pruner into the tool box.

■ Operations and maintenance for battery

1. Do not charge the battery in environments with temperatures below 0 ° C or above of 45 ° C.
2. Make sure that the battery switch is in the OFF position before connecting the charger on power. Then put the switch in the ON position.
3. Use only the charger supplied with the scissors. The use of chargers that do not correspond to the specifications on the plate may cause fire.
4. Objects such as keys, coins, rings, screws and any other conductive object must be stored away from the battery when it is not in use.
5. Do not disassemble the battery.
6. Do not cause short circuit in the battery.
7. Do not use the battery near heat sources.
8. Do not burn or immerse the battery in liquids.
9. Do not charge the battery near an open flame or in direct sunlight.
10. Do not insert nails, step on or force the battery. Don't shock her.
11. Do not use the battery if damaged or deformed.
12. Do not weld on the battery.
13. Do not reverse the battery charging polarity.
14. Do not connect the battery to external chargers or cigarette lighters in cars.
15. Do not connect the battery to machines other than this electric scissor.
16. Avoid direct contact with the lithium cells of the battery.
17. Do not insert the battery in the microwave oven.
18. Do not use batteries that show leaks.
19. Keep the battery out of the reach of children.
20. Do not use or store the battery in direct contact with sunlight (or in a vehicle under the sun). This causes overheating and shortens the battery life.
21. Do not use the battery in electrostatic environments.
22. Do not use the battery if it is corroded, smelly or with an unusual appearance.
23. If skin or clothes come into direct contact with battery fluids, wash and clean immediately with water.
24. Recharge the battery every 3 months when not using the electronic scissors.
25. When the battery is running out of charge, the reduction of the cutting diameter it is to be considered normal.

■ Blade tightening



For all these operations you must disconnect the pruning shears

Notice! It is possible to have a slight movement in the direction of blade closure. This movement is normal and may be caused by the gap between the rack and pinion teeth.

■ Lubrication



For all these operations you must disconnect the pruning shears

Lubricate blades twice a day using Ibea specific lubricant.

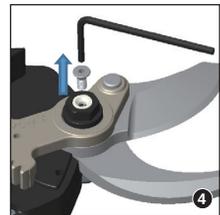
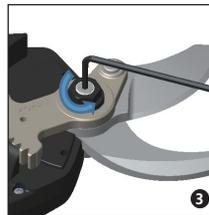
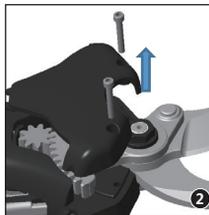
■ Replacing the blades

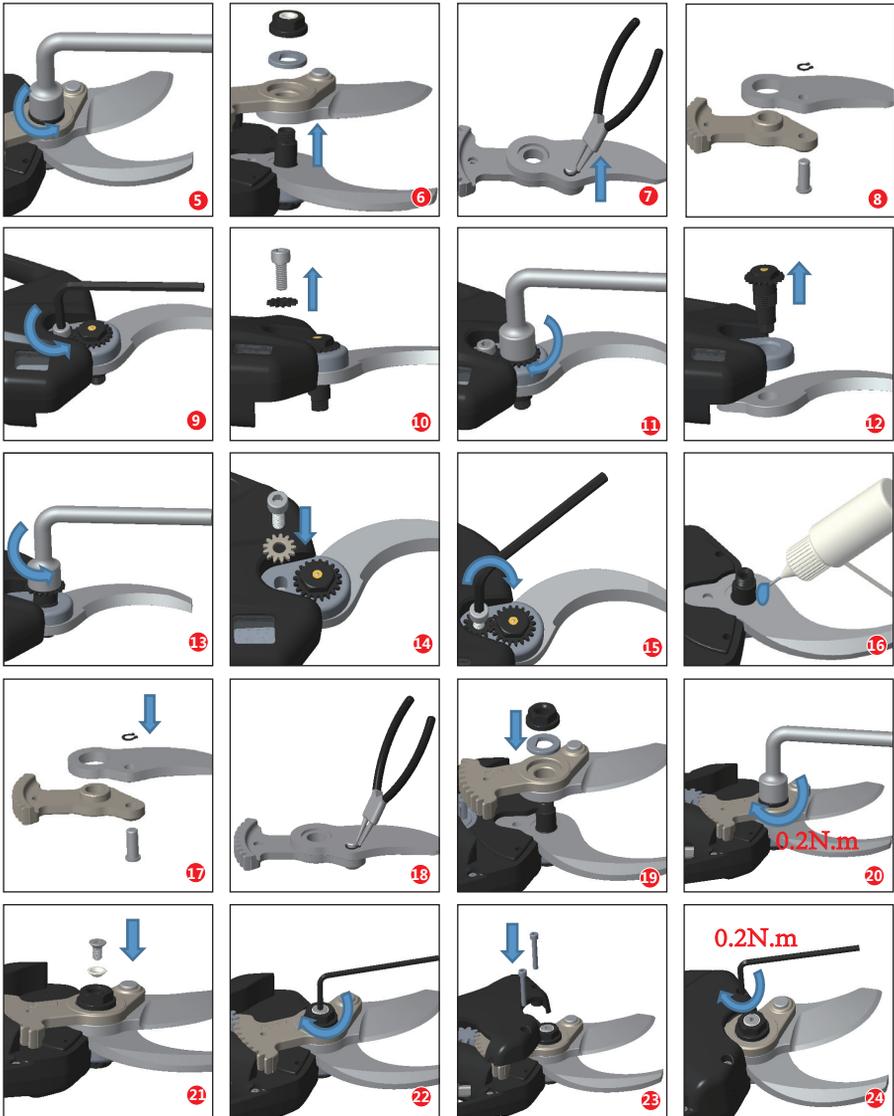


Please cut off the power source of the shears before operation.

When the entire length of the moving blade no longer coincides well with the fixed blade, or if the blade after grinding is still not clean after cleaning, it is recommended to replace the blade. The replacement steps are as follows:

1. For safety, please power off before replacement and remove the battery.
2. Follow the steps below to replace the blade.
3. After the replacement, clean it, connect the battery, check the power and close the blade.





■ Cleaning and disinfecting the cutting head

The cutting head can be cleaned to remove any residue (dust, dirt, etc.). For this operation it is recommended to use a clean cloth with non-abrasive and non-corrosive detergents. It is also possible to disinfect the cutting head to prevent any disease spreading on the wood. To do this, we recommend to avoid the use of corrosive products that could also damage the device. Don't hesitate to contact us so that we can assist you in selecting your products.

■ Operation precautions



When the device is running, always keep your hands away from the cutting head.

■ Usage and Care for Pruning Shear

1. Do not cut branches beyond specified diameter indicated, do not cut hard items such as metals, stones or any other non-plants materials. If the blades are worn or damaged, please replace them.
2. Keep the pruning shear clean; use a clean cloth to clean the pruning shear, battery and charger (do not use any abrasive or solvent-based cleaning agent) use a soft dry brush to clean the dust off the pruning shear head.
3. Do not immerse the pruning shear, battery or charger in any liquid.
4. Follow instructions as given for proper use of the pruning shear, do not use the pruning shear when the tool itself, battery or charger are damaged.
5. Do not use the pruning shear if it could not operate or shut down properly. Send for servicing immediately. It is dangerous to use the pruning shear when the tool could not operate or shut down properly.
6. Please ensure the pruner is powered off during any adjustment, replacing accessories or storage. This protective measure aims to reduce the risk of accidental pruner activation.
7. Please ensure the blades are closed when not in use, storage of the pruning shear must keep out of reach of **CHILDREN**, do not allow any person, who is not familiar with the pruner, to use the tool without instruction. It is dangerous to use the pruning shear without proper training and understanding.
8. The use the pruning shear must comply with instructions stated in this manual and methods of use as well as taking in consideration of the working environment and nature of work undertaken. The use of the pruning shear not within its stated capability and specifications is dangerous.
9. Remove all dirt from the moving and fixed blades after each use, thereafter apply lubricant on the blade side where both moving and fixed blade contact. This will ensure the blades are maintained in good conditions and reduce resistance during use, prolonging the pruner and blades lifespan.
10. At the end of the work, always remove the battery and store the machine in a safe place, out of the reach of children. The company declines all responsibility for damage to things or people.

■ Safety Notes

Warning! Please read all instructions carefully, not complying with instructions may lead to electric shocks, fire or other serious damage!

■ Workplace Safety

1. Keep work area clean and bright, messy and dimmed workplace may cause accidents.
2. Do not use the pruning shear in explosive, inflammable or humid environment.
3. Keep **CHILDREN** and bystander away before operating the pruning shear to avoid accidental injury due to distraction.

■ Electrical Safety

1. Pruning shear battery socket must be compatible with the power cable plug, do not modify the socket and the plug.
2. Do not expose the pruning shear to rain, humid environment, water or any other moisture that will risk electrical shock.
3. Do not misuse the power cord. Do not lift or pull up the pruning shear by the power cord. Keep the pruning shear away from heat, oil, sharp edges or moving parts.

■ Irregularity Measures

1. In the event the pruning shear is not able to cut through an object, release trigger immediately, the moving blade will return to its open position automatically.
2. In the event the pruning shear is cutting through a particularly hard branch, release the trigger immediately, the moving blade will return to its open position automatically.
3. In the event the battery is not charging properly, please check if the charger is the one provided with the package during purchase. Next ensure that the supplied voltage to the charger has the same rating as the specifications on the charger.
4. In the event of electrical or mechanical malfunction, power **OFF** immediately.
5. Operating without following instructions may result in battery fluid leakage. Do not touch the leaked battery fluid. In the event of accidental contact with battery fluid, clean with clear water immediately. If the battery fluid comes in contact with the eyes, wash with clear water and ask for medical assistance. Fluid from leaked battery may cause irritations or burns.

■ Human safety



Use suitable clothing and protective shoes with non-slip soles.



Use protective gloves.



Use protective glasses.

1. Do not wear loose clothing or jewelry that could get caught in the parts in movement.
2. Maintain attention, don't get distracted, use common sense during use tool. Do not use the tool if excessively tired or under the effect of drugs, drugs, alcohol or other substances.
3. Do not use the scissor in rainy weather.
4. The tool is designed for pruning branches, do not use on hard or wood other items.
5. If the blade is stuck, do not try to unlock it before putting the battery switch in the OFF position.
6. Before starting the pruning work, make sure that they are not present in the branches hidden objects or cables of various kinds.
7. During use, firmly grasp the tool with one hand and hold the blade at least 15 cm away from the other hand and the rest of the body.
8. Do not use the tool near flammable liquids or gases to avoid the risk of fire or explosion.
9. The wear of the blade must be checked at regular intervals. Sharpen the blades if necessary. Blunt blades overload the tool. Damage resulting from use with blades in poor condition are not covered by warranty.
10. Don't try to repair the tool yourself. Always go to service centers authorized in case of need for repairs. All maintenance operations and repair, not described in this manual, must be performed by a service center.
11. Prevent accidental activation. Make sure that the switch is in position OFF when the tool is connected to the battery and when the tool comes handled or transported. Transport the tool with the switch in position ON and your finger on the trigger can cause danger of accidental actuation.
12. Remove all keys and repair tools before turning on the switch. A wrench attached to moving parts can cause injury.
13. Don't go out of balance. Maintain the correct body balance in each situation. This allows better control of the tool in case of events unexpected events.

CE DECLARATION OF CONFORMITY

Translation of the original text

GB

The Company
IBEA s.r.l.



Via Milano, 15/17 - 21049 Tradate (VA) ITALY

DECLARES THAT THE MACHINE

Denomination:	Electric pruner
Type:	Kratos
Model:	Kratos 25 - Kratos 40
Year of construction:	2019

IS IN CONFORMITY WITH THE RELEVANT COMMUNITY HARMONISATION LEGISLATION:

DIRECTIVE 2006/42/CE	Machinery Directive
DIRECTIVE 2014/30/UE	Electromagnetic Compatibility
DIRECTIVE 2014/35/UE	Low Voltage Directive

Reference to the relevant harmonized standards used or references to other technical specifications for which conformity is declared:

UNI EN ISO 12100:2010	EN 60745-1:2009
EN 55014-1:2017	EN 60335-1:2012
EN 55014-2:2015	EN 60335-2-29:2012
EN 61000-3-2:2018	EN 62233:2008
EN 61000-3-3:2013	EN 61960-3:2017

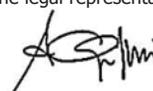
Authorized person to set up the technical documentation:

Name:	Ing. Alberto Griffini
Residence:	Via Milano, 15/17 - 21049 Tradate (VA) ITALY

This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

Tradate, 01 December 2019

The legal representative



Warranty

This machine has been conceived and manufactured through the most modern productive techniques. The manufacturer guarantees its products for a period of 24 months from the date of purchase except for professional continuous service products, used for work on behalf of third parties, for which the warranty is 12 months from purchase date.

WARRANTY CONDITIONS

The guarantee is recognized from the date of purchase. The construction company replaces defective parts free of charge in the material, workmanship and production. The warranty does not cover the replacement of the machine.

The technical staff will take care of the problem within the time limits granted by organizational needs and, in any case, in the shortest possible time. No delay will give rise to requests for damages nor to the request for extension of the guarantee itself.

To request warranty service, you must show, to authorized personnel, the warranty certificate stamped by the dealer, completed in all its parts and accompanied by the purchase invoice or receipt or other returned document fiscally mandatory and proving the date of purchase.

The guarantee lapses in case of:

- No obvious maintenance
- Incorrect use or tampering with the product
- Use of unsuitable lubricants
- Use of non-original spare parts or accessories
- Repair work carried out by unauthorized personnel

The manufacturer excludes from the warranty all parts subject to normal wear and tear of operation.

Any damage caused during transport must be immediately reported to the carrier, under penalty of forfeiture of the guarantee.

The manufacturer is not liable for any direct or indirect damages caused to people or things, from machine failures or resulting from forced suspension prolonged use of the same.

The images in this manual are for illustrative purpose only and may differ from the actual appearance of the product. The information contained in this manual are subject to change without notice.

Scheda prodotto / Product sheet / Fiche produit

Modello / Model / Modèle.....

S/N.....

Rivenditore / Retailer / Détaillant.....

Data / Date.....



Made in Italy

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