

Castellari

Imola, Italia, 1976



RYNO 40



RYNO 50



RYNO 63

CE

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USER AND MAINTENANCE MANUAL

1. DESCRIPTION OF THE GENERAL CHARACTERISTICS OF SCISSORS

1.1. Purpose of the manual

This manual contains the instructions necessary for the correct and safe use of the pruning scissors of the RYNO Series, hereinafter also referred to as "machines", distributed by Castellari S.r.l., of Imola (BO). Before using the machines, it is important to read and carefully follow the instructions in this manual, as the regular operation and durability of the machines depends on the observance of the indicated indications, together with proper maintenance.

NB: This manual is an integral part of the machines, it must always accompany you in every move or resale. We recommend storage in a safe place, of which all possible users must be informed.

1.2. Machine identification

The machines are equipped with an identification plate on which the following data are reported:

- Name of the company responsible for the CE marking and full address;
- Product name;
- Serial number;
- Year of construction;
- Indicators for disposal, marking "CE";
- Obligation to read the manual.
- Product origin

1.3. Machine description and technical data

The machines of the RYNO series are designed to make pruning work easier.

The cutting head consists of a movable blade and a fixed counter-blade joined by pin and nut. The help of the integrated battery (plug-in) allows the action of pruning without any kind of effort.

The fabric sheath is easily attached to the belt and allows the insertion and transport of the machine turned off during the working day, so as not to have to place it on the ground.

Inside the convenient storage case there is also a first maintenance kit consisting of a sharpening stone and clamping keys.

Finally, you will find the battery charger and the QUICK START sheet.

TECHNICAL DATA RYNO 40

Feeding	Electric
Tension	14.4 V
Weight and Length	940 gr – 29 cm
Charger	100-240VAC 50/60HZ 0.5 A
Charging time	1 – 1.5 hours
Cutting capacity	25 mm
Motor power	Watt
Battery	2.5 Ah – 36Wh
Battery Autonomy	3 – 4 hours depending on use

TECHNICAL DATA RYNO 50

Feeding	Electric
Tension	14.4 V
Weight and Length	1.006 gr - 29 cm
Charger	100-240VAC 50/60HZ 0.5 A
Charging time	1 – 1.5 hours
Cutting capacity	32 mm
Motor power	Watt
Battery	2.5 Ah – 36Wh
Battery Autonomy	3 – 4 hours depending on use

TECHNICAL DATA RYNO 63

Feeding	Electric
Tension	21.6 V
Weight and Length	1.296 gr – 34 cm
Charger	100-240VAC 50/60HZ 0.5 A.
Charging time	1 – 1.5 hours
Cutting capacity	40 mm
Motor power	Watt
Battery	2.5 Ah – 54 Wh
Battery Autonomy	3 – 4 hours depending on use

1.4. Subject to which the manual is addressed

This manual is the indispensable guide for all users who, for various reasons, can use or take care of the machines. Below are the possible professional profiles:

User:

Person, entity or company that buys or rents the machines and intends to use it for the uses designed for the purpose. He is responsible for the machines and the training of those around them.

Operator:

Person trained in the use of machines.

It is able to guide the machines through the use of the controls arranged on the control panel, it can only intervene to make simple adjustments. It is not authorized to perform maintenance on the electrical or mechanical system of the machines.

Mechanical maintenance technician:

Specialized technician able to intervene on mechanical parts and transmissions to carry out all the necessary maintenance and repairs. It is not authorized to carry out electrical maintenance on the machines.

Electrical maintainer:

Specialized technician able to operate even in the presence of voltage inside the electronic board or other electronic components.

Intended and unintended uses of machinery

Intended use: The Ryno model battery-powered electric pruner is designed and built for pruning work in agriculture and gardening. It can be used to cut branches of fruit trees, ornamental trees, shrubs, hedges and weeds or cuts of branches of diameter compatible with that indicated under "cutting capacity" reported on the technical data.

No other use is provided unless expressly authorized by the manufacturer.

Castellari srl declines any and all responsibility for malfunctions or damage to persons or things due to uses other than those indicated in this manual.

In addition to the above, the following uses are prohibited:

- Use the electronic pruner to cut branches larger than the maximum diameter or very dry branches in a single cut.
- Use the electronic pruning machine in open places with humid climate or in an environment at a temperature not included among those expected.
- Use the electronic pruner without having worn the appropriate PPE required by the type of work to be performed (gloves, shoes and overalls).
- Touch the electronic pruner with damp and/or wet hands.

DANGER:



Cutting risk



Be careful not to use the machine in environments with explosive atmospheres!
Given the use of electrical components do not use in case of bad weather or thunderstorms.



Prohibition of relying on or approaching heat sources



Prohibition of exposure to the sun or hot surfaces

1.5. Protection and safety devices

The machines are equipped with safety devices to protect the operator from the internal mechanical and electrical parts.

Protective casing: Fixed device that prevents direct contact with moving internal parts or dangerous parts of the machines. Protection can only be removed by using security tools. When the machine is running, the protective casing must be properly assembled.

Electronic ignition device: Allows the blade to be opened only after two quick shots on the trigger.

1.6. Risks arising from the use of machinery

1.6.1. Noise risk

The sound level was measured by measuring the emission with machines in motion in accordance with the UNI EN ISO 11201: 2010 standard.

From the values found it is concluded that the operation of the machines does not involve a high noise level.

1.6.2. Vibration risk

The vibration level was measured with machines in motion, in compliance with the UNI EN ISO 5349-2 2015 standard for the evaluation of vibrations transmitted to the HAND-ARM system.

The following value was collected:

Hand-arm vibration level: 1.01 m/s²

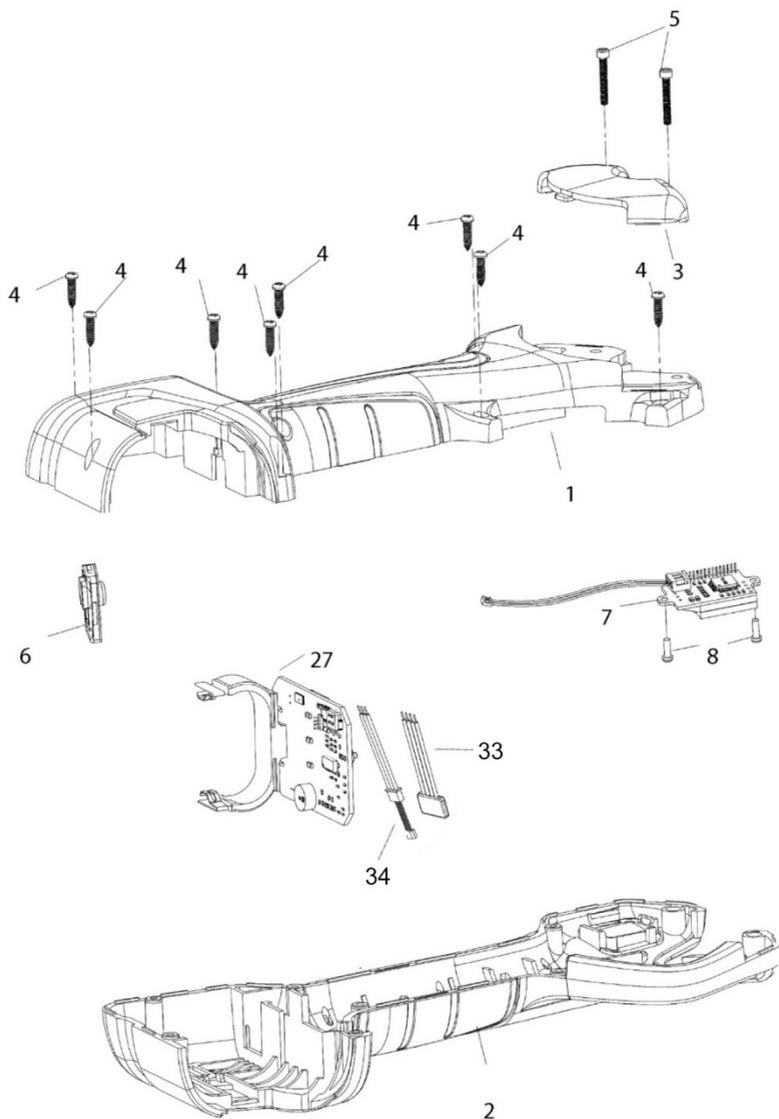
1.6.3. Cut risk

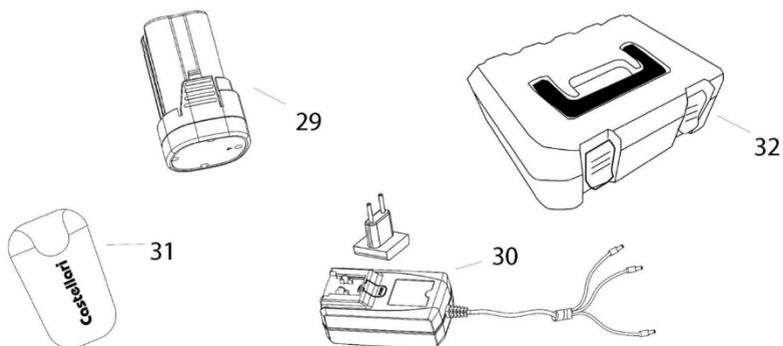
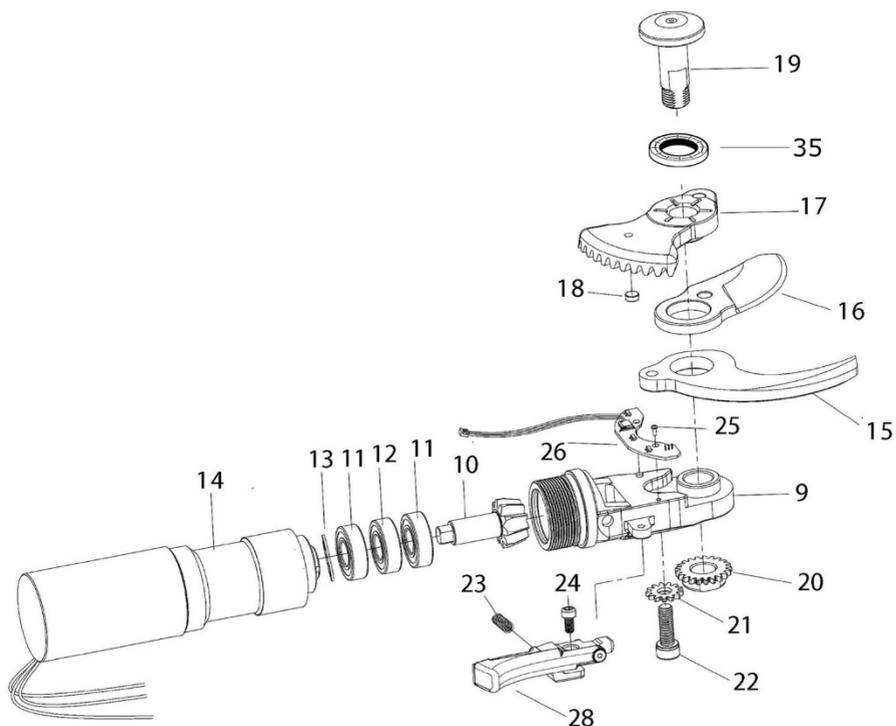


Shear hazard

Although all safety regulations were applied for the construction, it was not possible to eliminate the risk of cutting.

1.7. RYNO 40 Components





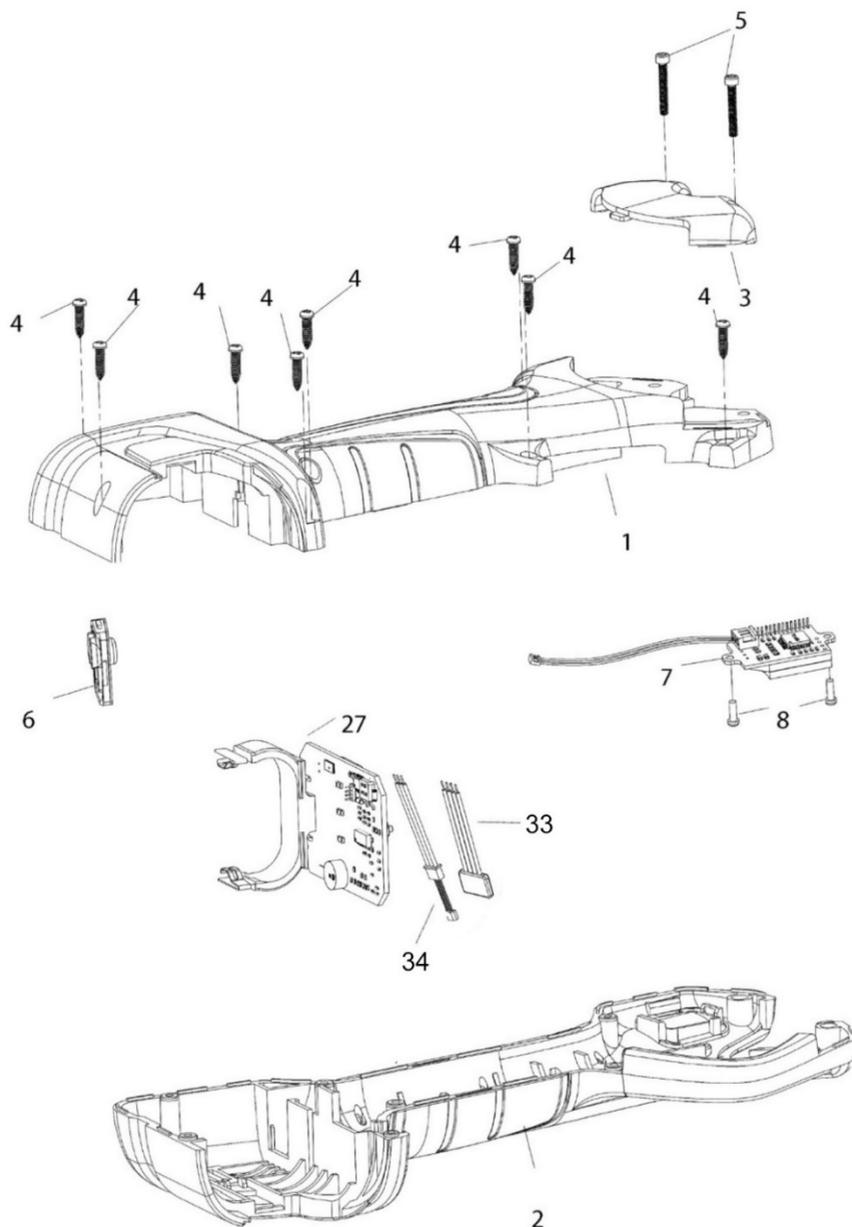


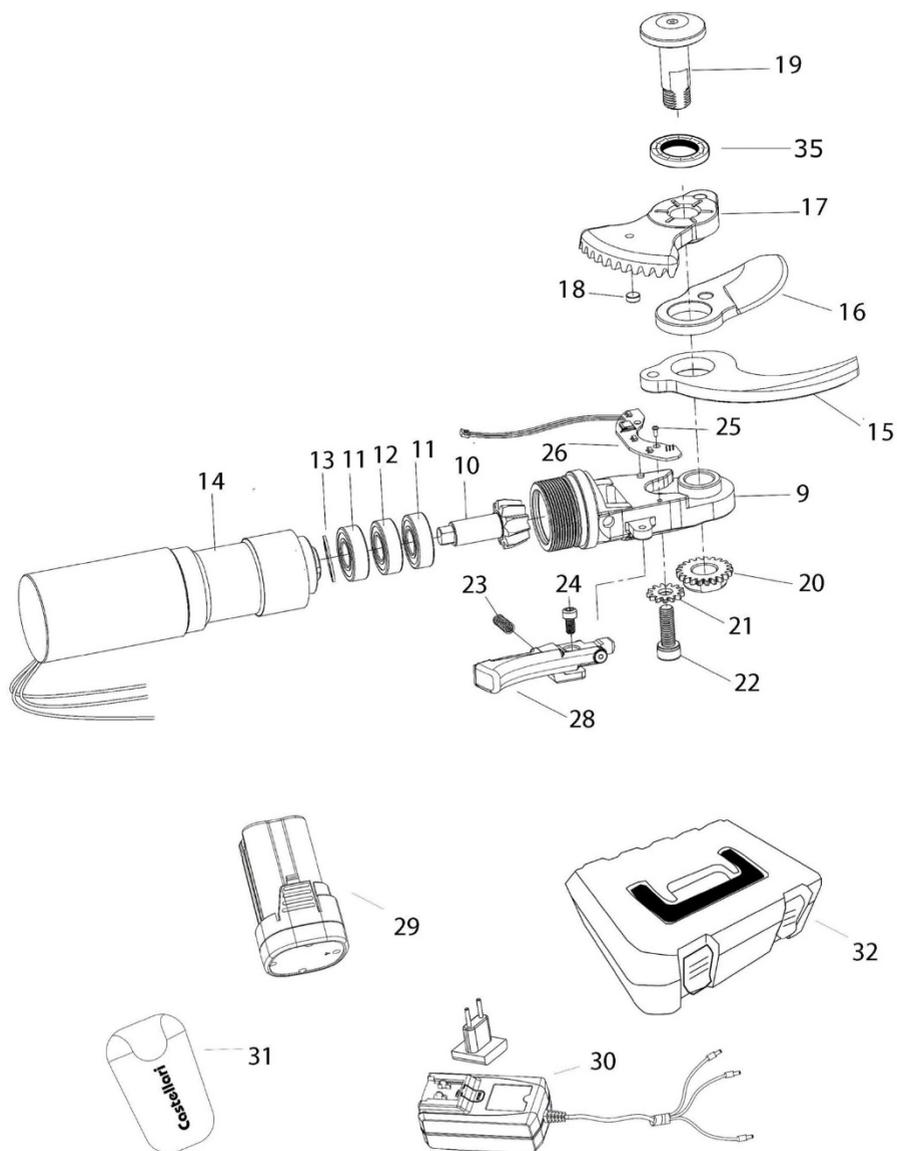
RYNO 40

POS	COD	SET DESCRIPTION	MOQ
1	RY4002	RIGHT CRANKCASE	1
2	RY4001	LEFT CRANKCASE	1
3	RY4003	REMOVABLE UPPER CASING	1
4	RY4004	VITE CARTER M2,3X10 RYNO 40/63	8
5	RY4006	REMOVABLE CRANKCASE SCREW M3X19 RYNO 40/50/63	2
6	RY4035	INTERRUETTORE ON/OFF RYNO 40/50	2
7	RY4037	DISPLAY RYNO 40/50	1
8	RY4005	VITE DISPLAY M2X6 RYNO 40/50	2
9	RY4017	ALUMINIUM HEAD	1
10	RY4007	GEARMOTOR SPROCKET	1
11	RY4008	BALL BEARING 619/9 SPROCKET RYNO 40/50	2
12	RY4009	RADIAL BALL BEARING 619/9 SPROCKET RYNO 40/50	1
13	RY4010	SEEGER Ø 19 PIGNONE RYNO 40/50	1
14	RY4038	MOTORIDUTTORE	1
15	RY4018	CONTROLAMA	2
16	RY4019	OLD	2
17	RY4020	RACK WITH MAGNET	1
18	RY4021	MAGNETE Ø 5X2 RYNO 40/50/63	3
19	RY4022	BLADE PIN	1
20	RY4023	DICE	2
21	RY4024	TOOTHED WASHER RYNO 40/50/63	2
22	RY4025	SCREW M5X12 FIXING COUNTERBLADE	3
23	RY4033	TRIGGER SPRING RYNO 40/50/63	5
24	RY4032	VITE GRILLETTO M3X6 RYNO 40/50/63	5
25	RY4026	CIRCUIT SCREW M2X4 RYNO 40/50/63	5
26	RY4027	CIRCUIT CHART	1
27	RY4034	ELECTRONIC BOARD RYNO 40/50	1
28	RY4041	TRIGGER WITH MAGNET RYNO 40/50	1
29	RY4036	BATTERY 14,4V RYNO 40/50	1
30	RY4044	BATTERY CHARGER RYNO 40/50	1
31	RY4046	Sheath RYNO 40/50/63	1
32	RY4045	RYNO CASE 40/50/63	1
33	RY4039	TEMPERATURE SENSOR RYNO 40/50	1
34	RY4040	SENSORE DISPLAY RYNO 40/50	1
35	RY4028	BEARING FOR BLADE PIN RYNO 40/50/63	5

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1.8. RYNO 50 Components



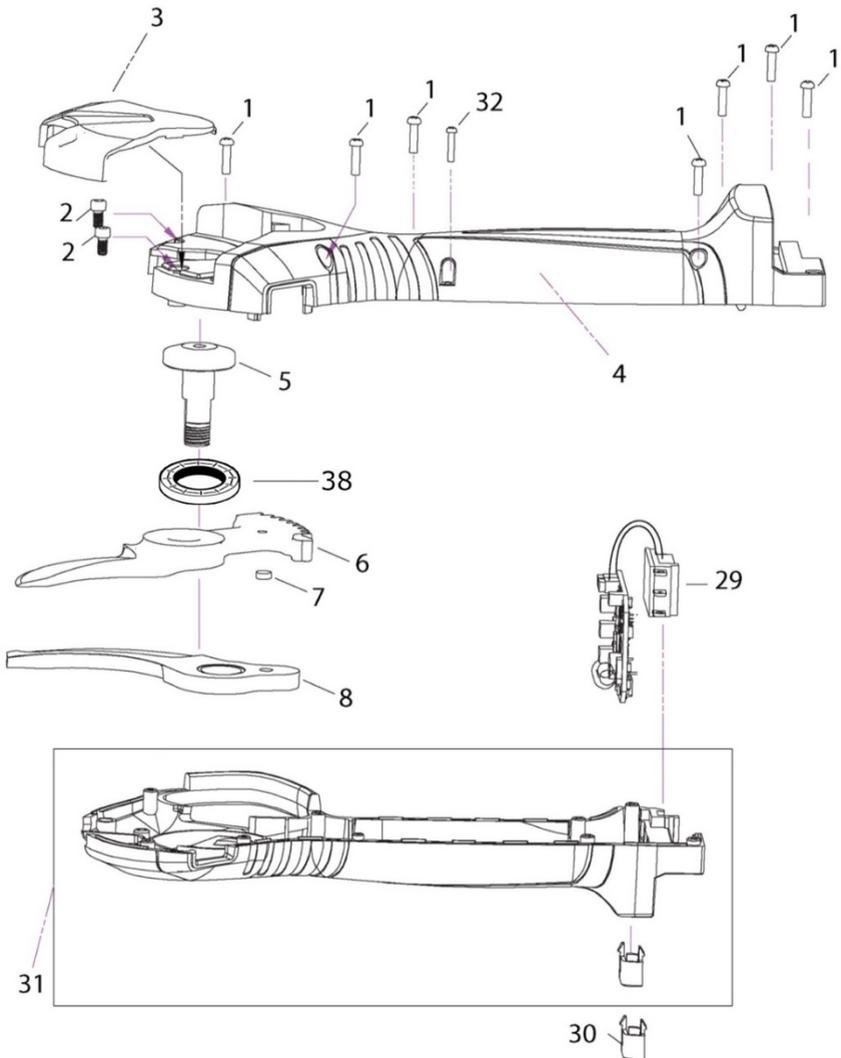


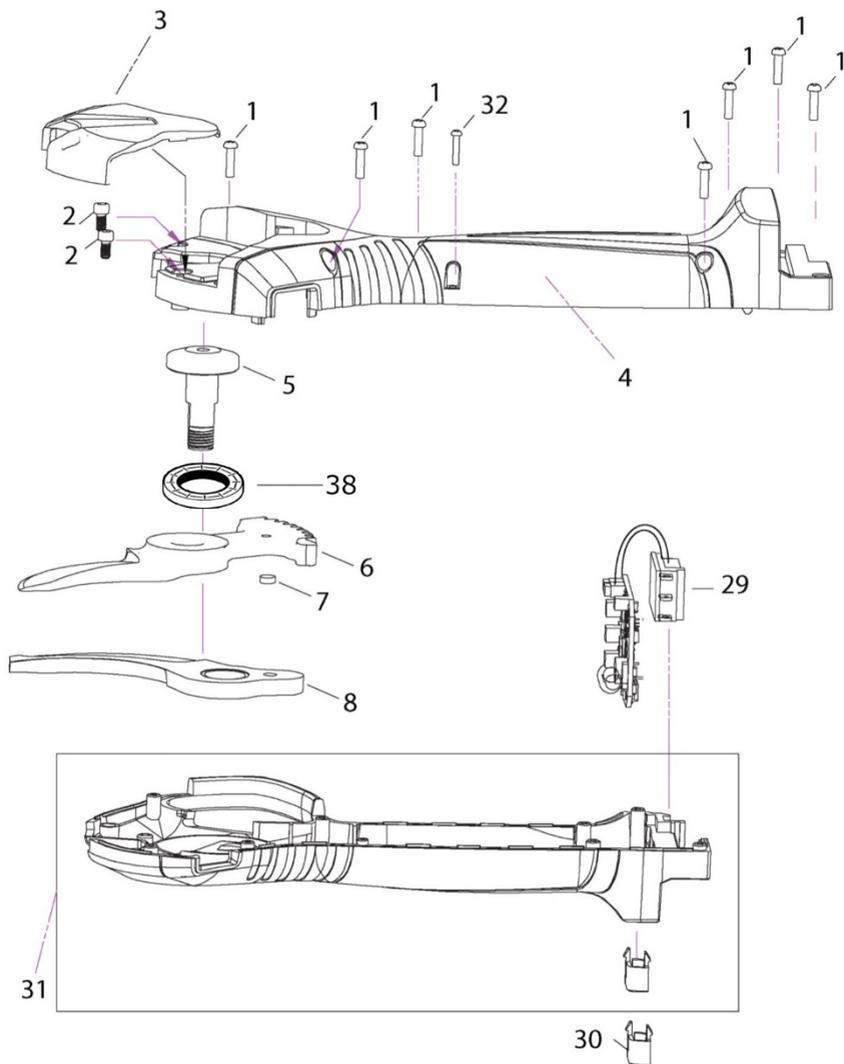


RYNO 50

POS.	COD	SET DESCRIPTION	MOQ
1	RY5001	RIGHT CRANKCASE	1
2	RY5002	LEFT CRANKCASE	1
3	RY5003	REMOVABLE UPPER CRANKCASE	2
4	RY5004	FAST CARTER M2.6X10	8
5	RY4006	REMOVABLE CRANKCASE SCREW M3X20 RYNO 40/50/63	2
6	RY4035	INTERRUTTORE ON/OFF RYNO 40/50	2
7	RY4037	DISPLAY RYNO 40/50	1
8	RY4005	VITE DISPLAY M2X6 RYNO 40/50	2
9	RY5011	ALUMINIUM HEAD	1
10	RY5012	GEARMOTOR SPROCKET	1
11	RY4008	BALL BEARING 619/9 SPROCKET RYNO 40/50	2
12	RY4009	RADIAL BALL BEARING 619/9 SPROCKET RYNO 40/50	1
13	RY4010	SEEGER Ø 19 PIGNONE RYNO 40/50	1
14	RY5042	MOTORIDUTTORE	1
15	RY5025	CONTROLAMA	1
16	RY5026	OLD	1
17	RY5027	RACK WITH MAGNET	1
18	RY4021	MAGNETE Ø 5X2 RYNO 40/50/63	3
19	RY5029	BLADE PIN	1
20	RY5030	GIVEN RYNO 50/63	2
21	RY4024	TOOTHED WASHER RYNO 40/50/63	2
22	RY5032	SCREW M5X14 FIXING COUNTERAMA RYNO 50/63	2
23	RY4033	TRIGGER SPRING RYNO 40/50/63	5
24	RY4032	VITE GRILLETTO M3X6 RYNO 40/50/63	5
25	RY4026	CIRCUIT SCREW M2X4 RYNO 40/50/63	5
26	RY5040	CIRCUIT CHART	1
27	RY4034	ELECTRONIC BOARD RYNO 40/50	1
28	RY4041	TRIGGER WITH MAGNET RYNO 40/50	1
29	RY4036	BATTERY 14,4V RYNO 40/50	1
30	RY4044	BATTERY CHARGER RYNO 40/50	1
31	RY4046	Sheath RYNO 40/50/63	1
32	RY4045	RYNO CASE 40/50/63	1
33	RY4039	TEMPERATURE SENSOR RYNO 40/50	1
34	RY4040	SENSORE DISPLAY RYNO 40/50	1
35	RY4028	BEARING FOR BLADE PIN RYNO 40/50/63	5

1.9. RYNO 63 Components

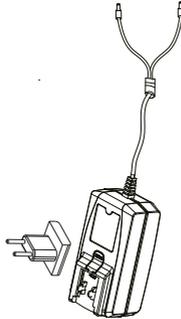




POS.	COD	SET DESCRIPTION	MOQ
1	RY4004	VITE CARTER M2,3X10 RYNO 40/63	1
2	RY4006	REMOVABLE CRANKCASE SCREW M3X19 RYNO 40/50/63	2
3	RY6303	REMOVABLE UPPER CASING	1
4	RY6304	RIGHT CRANKCASE	1
5	RY6305	BLADE PIN	1
6	RY6306	RACK BLADE WITH MAGNET	1
7	RY4021	MAGNETE Ø 5X2 RYNO 40/50/63	3
8	RY6308	CONTROLAMA	1
9	RY6309	PINION	1
10	RY6310	SPROCKET KEY	1
11	RY6311	BALL BEARING 61901 SPROCKET	2
12	RY4032	VITE GRILLETTO M3X6 RYNO 40/50/63	5
13	RY6313	TRIGGER WITH MAGNET	1
14	RY4026	CIRCUIT SCREW M2X4 RYNO 40/50/63	5
15	RY6315	CIRCUIT CHART	1
16	RY6316	ALUMINIUM HEAD	1
17	RY6317	BLADE PIN BUSHING	2
18	RY5030	GIVEN RYNO 50/63	2
19	RY4024	TOOTHED WASHER RYNO 40/50/63	2
20	RY5032	SCREW M5X14 FIXING COUNTERAMA RYNO 50/63	2
21	RY6321	CORONA	1
22	RY6322	GIVEN CROWN	1
23	RY6323	DISPLAY	1
24	RY6324	COVER DISPLAY	2
25	RY6325	GEAR MOTOR PINION WITH BEARINGS	1
27	RY6327	SEEGER Ø 19 MOTORIDUTTORE	1
28	RY6328	MOTORIDUTTORE	1
29	RY6336	ELECTRONIC BOARD	1
30	RY6337	PULSANTE ON/OFF	1
31	RY6338	LEFT CRANKCASE	1
32	RY6339	FAST CARTER M2X10	1
33	RY4033	TRIGGER SPRING RYNO 40/50/63	5
34	RY6342	BATTERY 21,6V	1
35	RY6343	BATTERY CHARGER	1
36	RY4046	Sheath RYNO 40/50/63	1
37	RY4045	RYNO CASE 40/50/63	1
38	RY4028	BEARING FOR BLADE PIN RYNO 40/50/63	5

1.10. Specifica componenti RYNO 40 – RYNO 50 – RYNO 63

- 1 Scissors
- 2 Battery x 2
- 3 Custody
- 4 Maintenance kit (Allens)
- 5 Sharpening stone
- 6 Quick start manual
 - Charger
 - Charger plug
 - AC socket for dual charging



2. SAFETY AND PREVENTION

It is very important to read this manual carefully in order to minimize the risks due to careless or incorrect use of the machine covered by the manual. The user must instruct the operator on the risks due to the use of the machine, on the devices prepared for safety and on the general accident prevention rules provided for by the directives and legislation of the country of use of the machine.

2.1. Safety signs (pictograms)

The dangerous situations related to the use of the machine are indicated in the manual by using the symbol below:



The same symbol is used on the machine to highlight potential residual risks which, despite the adoption of all possible safety standards in the construction of the machine, it has not been possible to completely eliminate due to certain conditions of use.

N.B.: It is important to keep the signals on the machine always clean and therefore clearly visible in order to allow users a quick identification of possible risk situations during use.

2.2. General safety rules

The staff undertakes to:

- always use the means of personal protection provided for by legislation, together with the intended uses of the electronic pruner, and follow what is reported in this manual,
- follow all warning and caution indications indicated on the machinery,
- not to carry out operations or interventions on machinery on their own initiative which are not within their own competence,
- report to your superior any problem or dangerous situation that may arise.
- recommended operating temperatures -5°C $+40^{\circ}\text{C}$
- use the electronic pruner to cut branches, not too dry, and with a diameter not exceeding the maximum expected (technical data Ryno 40, 50, 63)
- Do not touch the pruner with damp or wet hands
- Do not modify and/or tamper with any part

Machinery must be used only for the use for which it was designed.

Machinery must not be operated with the guards dismantled and the crankcases must not be removed or disengaged.

2.3. Safety in use and maintenance

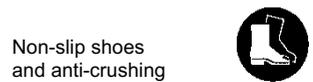
2.3.1. Safety in use and in the working environment

- Before putting the machines into operation, make sure of the perfect integrity of all its parts.
- Before charging, make sure that the environment is dry and clean.
- The zone in which the machinery is used is to be considered as a "danger zone", i.e. an area in the vicinity of which the presence of an exposed person constitutes a risk to the health and safety of that person. This applies in particular in the case of persons who are not trained in the use of machines.
- The area surrounding the operating area of the machinery must always be clean and kept free from any impediment. Make sure there are no people or animals in the work area.
- When a person is "exposed" or in a "danger zone", the operator must immediately intervene by stopping the machines and possibly removing the person in question.
- During the operation of the machines, the operator must maintain a position that allows his full control, so that he can intervene at any time and for any eventuality.

- Before storing the machine in the sheath or case, make sure that the blades are closed and the machine is switched off.
- Keep out of the children's door
- Periodically check the integrity of machinery as a whole, including protective devices
- Do not cut material other than wood
- Do not turn the pruner towards people

2.3.2. Safety in maintenance

- Before carrying out any maintenance work on the machines, make sure that the battery is not inserted into the machine housing.
- Maintenance operations must always be carried out by qualified personnel for these specific functions.
- At the end of the maintenance and repair operations, before restarting the machines, the technical manager must make sure that the work is completed, the safety devices restored and that the protections have been reassembled.
- During maintenance or repair operations, the use of suitable protective clothing is mandatory, such as:



The adjustments, with safety devices disengaged or without casing, must be made by a single operator; During these operations, access to the machine is forbidden to non-employees. Avoid dust deposits on the machine, especially on the electric motor and on the intake filters and on the electrical parts

2.3.3 Electrical safety

- The charger socket must be compatible with the wall outlet.
- Do not cut the cord and do not replace the outlet.
- Check the integrity of the cable.
- Do not use in humid environments and/or in case of rain or thunderstorms.



NB: Do not direct jets of water against the machine (eg for cleaning), they could generate short circuit!

2.4. Ecology and pollution

2.4.1. Waste management

The use and maintenance of the machines generate waste products that must be disposed of in compliance with the laws in force in the country where the machine is used. The user of the machines is obliged to comply with any recommendations of the manufacturers relating to the use of the products for the normal operation, cleaning and maintenance of the machines.

Any special waste must be disposed of by contacting specialized and authorized companies for this purpose. Ensure the correct disposal of the waste through the request for the receipt of "successful disposal". In case of dismantling of the machinery see section 4.5.

2.4.2. Information to users



The crossed-out bin symbol on the equipment indicates that the product at the end of its useful life must be collected separately from other waste and cannot be disposed of in the same way as household waste.

The user who must / wants to dispose of this machine may refer to a person authorized to collect and recover such equipment or, alternatively, contact the manufacturer of the equipment that manages its end of life and follow the system indicated by it to allow separate collection. In case of disposal in a foreign country, contact the competent local authority. Professional users will have to take charge of agreeing on the disposal of the product at the end of its life. Please also refer to the website www.registroaee.it



The symbol of the bin WITHOUT bar on the battery indicates that the product at the end of its useful life must be collected separately from other waste and cannot be disposed of as household waste.

The user who must / wants to dispose of this machine may refer to a person authorized to collect and recover such equipment or, alternatively, contact the manufacturer of the equipment that manages its end of life and follow the system indicated by it to allow separate collection. In case of disposal in a foreign country, contact the competent local authority. Professional users will have to take charge of agreeing on the disposal of the product at the end of its life. Also refer to the site www.registropile.it

3. USE

3.1. Handling and transport

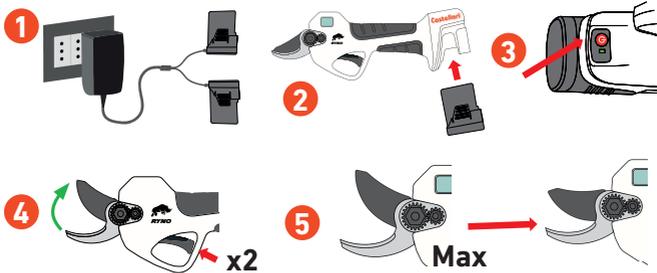
The machines are easily transportable as they are equipped with a case.

Before use

Before commissioning the machines, the operator must have read and understood all the parts of this manual and in particular what is reported in Chapter 2 dedicated to safety.

Before using the machines for the first time:

- familiarize themselves with the control devices and their functions,
- verify that all components of machines subject to wear or deterioration are in an intact state.
- Verify that the fixed casings are in the correct position.
- Verify that the start button is in the stop position.



3.2. Preparation for use

Before use:

- 1 Fully charge the batteries;
 - 2 Insert the battery into the appropriate accommodation;
 - 3 Press the on and off button and check that the display is turned on;
 - 4 Press the trigger twice quickly to allow the cutting head to open;
- In order to verify the correct functioning of the scissors, two or three empty cuts are recommended;
- 6 The machine is equipped with two openings, small for quick and quick cuts, large for more demanding cuts;

When the machine is turned on, the blades will open at maximum opening. To set the lower opening it is necessary to close the blade group keeping the trigger pressed until the emission of the acoustic signal, at this point releasing the trigger you will get the desired size. To restore the previous opening, repeat the operation.

3.3. Using the battery charger and charging the battery:

- Pay attention to the charging phase.
- The first use should only take place when the battery is fully charged.
- Once the battery charger is connected to the battery, plug the plug into the wall socket.
- The battery charger will glow red. While charging, DO NOT disconnect from the power until the light turns green.



3.4. Use of machine

Suggested use:

- The wear of the mechanical and electronic components of the machine is closely related to the way the machine is used. In order not to cause a mechanical and thermal overload of the components that could cause a blockage of the machines, it would be advisable to avoid insisting on cutting the branch if it is too demanding.
- It is not recommended to use discharged or deteriorated batteries.
- It is not recommended to use batteries and battery chargers with signs of damage.

- Make sure that during non-use of the scissors the blades are closed.
- Make sure, before switching off, that the blades are closed.
- After use, always store the scissors inside the case, always removing the battery.
- Always follow the instructions in this manual.
- It is forbidden to use power supplies other than the intended battery.
- It is forbidden to use chargers other than the one supplied.

4. MAINTENANCE AND CLEANING

4.1. Routine maintenance

The long service life of the machines and the lower operating cost depend on compliance with this standard.

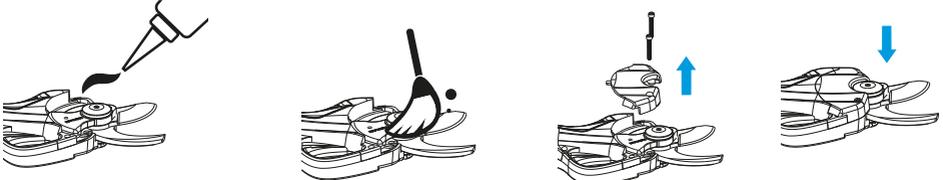
Periodic checks to be carried out:

1) Daily:

- Through the greaser placed on the pin, provide for the lubrication of the blade group:
- Check the state of wear of the moving mechanical parts and sharpen the mobile blade with the supplied stone:
- At the end of the working day, clean the fixed blade and the movable blade.

2) Every week:

- It is recommended to disassemble the blade guard by removing only the two hexagonal head screws and clean the inside from dirty or aged grease. Then blow with clean compressed air to remove any pruning residues. Grease the rack and close the protective casing by checking the fixing of the screws.



The intervention times reported are to be considered indicative and are defined considering normal conditions of use of the machine. They may vary depending on the mode of use of the machine and in relation to the characteristics of the environment in which it is used, eg: humidity level, air cleanliness (presence of dust). In conditions of heavy use, it may be necessary to increase the number of maintenance interventions.



Before proceeding with any operation, make sure that the machine is turned off, with the blade assembly closed and the battery disconnected.



For lubrication follow the instructions in the safety data sheets of the products used

4.2. Set-aside

If a long period of rest of the machines is foreseen, the following operations must be carried out:

- disconnect the machines from the batteries;
- Clean the machine, freeing it from any dirt deposited under the blade protection casing;
- carry out a check and replace at a specialized Castellari service center the parts damaged / worn by use;



During long periods of non-use, remember to recharge the battery every 3 months. Then repeat the steps described above for set-aside

Carefully carry out the maintenance operations described above.

4.3. Dismantling of machines

Deliver your disused machines to an official material recycling center. You actively contribute to the protection of the environment by applying methods of elimination and recovery also in relation to the packaging materials with which the packaging of the machine is made. Your local authority will be able to inform you about the most effective ways and possibilities to carry out the disposal of the old instrument, in an environmentally friendly way.



Waste must be collected separately and cannot be assimilated to domestic

Error code meanings			
	The LED blinks x times	No of sounds	Error code
No errors	0	0	E00
Manual cut protection	1	1	E01
Current sensor error	2	6	E02
MOS pipe damage	3	6	E03
Hall failure/blade break	4	3	E04
Current peak overcurrent/average protection	5	5	E05
Locked opening/rotor locked	6	3	E06
Default phase	7	4	E07
Under voltage/overvoltage	8	1	E08
Sovratemperatura MOS/chip	9	6	E09
PWM communication error/ cut-out bit voltage error	10	2	E10
Cut bit error	10	7	E10
EEPROM error	11	6	E11
Phase detection error	12	4	E12
Programming error	13	6	E13
> historical pruning times	14	5	E14
> maintenance pruning times	15	5	E15
The number of batteries in the tip of the shears and the battery is different.	16	9	E16
The motherboard cannot communicate with the battery.	17	10	E17

4.4. Spare parts

In order to ensure the safety and long life of the product, it is recommended to use only original spare parts. Repairs or specialized maintenance interventions must be carried out by specialized and authorized Castellari personnel.

5. WARRANTY CONDITIONS

Castellari srl guarantees the new factory product for a period of 24 (twenty-four) months from the date of purchase.

NB: Check, at the time of purchase, that the machine is intact and complete in its components. Any complaints must be submitted within 7 days of receipt of the machines. The warranty involves the repair or free replacement of those parts that are defective.

NB: The replacements or repairs of the parts under warranty do not in any way imply the extension of the term of the same. The purchaser may only assert his rights if he has complied with the conditions concerning the performance of the guarantee.

5.1. Disclaimer of Warranty

The warranty is void in the following cases:

- There is a manoeuvring error attributable to the operator,
- The damage is attributable to insufficient or incorrect maintenance,
- Damage generated by the assembly of non-original parts or as a result of repairs carried out by the user without the consent of the manufacturer,
- If you do not follow the detailed instructions in this manual.

6. Declaration of conformity

Directive 2006/42/EC of the European Parliament and of the Council.

I, the undersigned Castellari Enrico, president of Castellari S.r.l., "Construction scissors for agriculture", Via Lasie 16/E – 40026 IMOLA (BO) ITALY, declare under my sole responsibility that the scissors RYNO 40, RYNO 50, RYNO 63 comply with the essential health and safety requirements required by Directive 2006/42 / EC of the European Parliament and of the Council.



Castellari

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