INSTRUCTIONS FOR THE USE AND MAINTENANCE

FOR THE HANDWORK EQUIPMENT

helium pruner

ART. 30

READ CAREFULY THESE INSTRUCTIONS BEFORE USING THE EQUIPMENT

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KEEP THESE INSTRUCTIONS CAREFULLY

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Instructions for use and maintenance of the tool

HELIUM PRUNER
Art. 30

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1.1 Warnings

The *Use and maintenance instructions* provide the user with useful information for a safe and proper work, facilitating the use of the **HELIUM PRUNER**. It is very important for the user to consult and read these instructions before using the equipment in order to prevent inappropriate use and inconveniences that may affect equipment's integrity or may be dangerous for the safety of people and animals.

It is important that while using the equipment, you must always comply with the current regulations concerning safety, work conditions hygiene and environmental protection. Therefore the user is responsible to make sure that the equipment is used only in the safest conditions both for people and objects.

The following symbols are used in all instructions:



ATTENTION!

HEALTH AND SAFETY HAZARD REGARDING PEOPLE AND OPERATORS



ATTENTION!

ELECTRIC SHOCK DANGER.



ATTENTION!

EQUIPMENT DAMAGE DANGER

1.2 General safety instructions

Before using the equipment

- Check the equipment's condition before use (ex. any deformations);
- Preventively wear PPE (cut-resistant gloves, safety shoes, safety helmet, goggles);
- Make sure the wing nut (cutting head) and the clamp lever (at every use) are properly tightened;
- Adjust the length of the rod depending on the height of the branch to be cut.

During use:

- Do not use the pruner near power cables under voltage;
- If it's necessary to work at height, use stable means of access (baskets, stagings, etc.);
- Hold the grips firmly while cutting;
- Do not use the pruner if other people or animals are present in the cutting area.



ATTENTION!

Do not use the pruner if people/animals are present in the cutting area. Send away the people/animals from the falling trajectory of the branch.



ATTENTION!

Electric shock danger.

Do not use the pruner near power cables under voltage.

2 EQUIPMENT CHARACTERISTICS

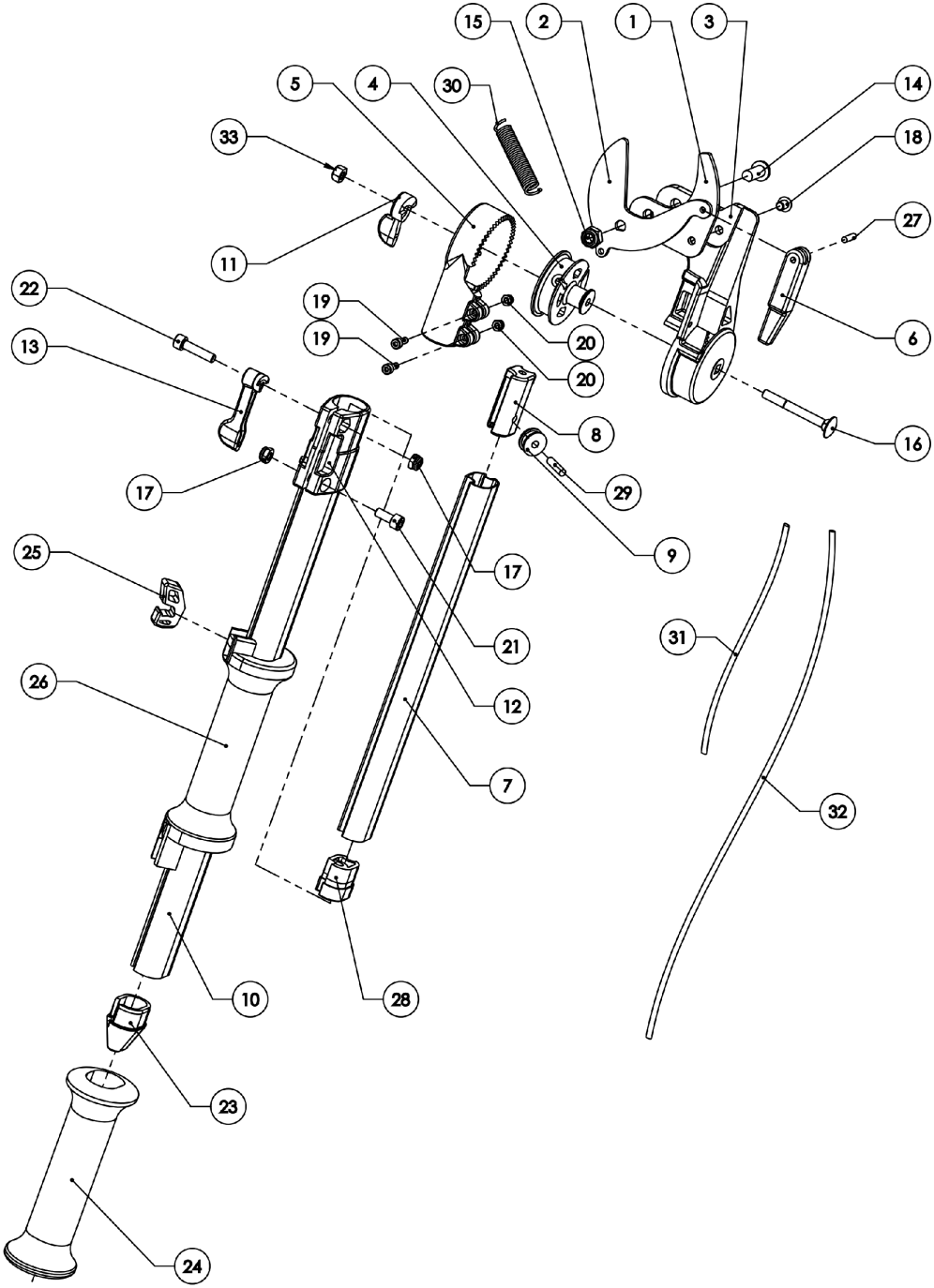
Table 1
General characteristics

The equipment is designed to cut branches and prune plants up to 4 meters height from the ground (or from the user's walking surface). It includes an extendible rod ended with a spring device, which reproduces the normal scissors or shears. The particular lever shape allows you to multiply the force applied by pulling, and this, combined with the shears.

HELIUM PRUNER PARTS LIST

PARTS DESCRIPTION	Ref. exploded diagram	qty.
STEEL COUNTER-BLADE	1	1
TEFLON STEEL BLADE	2	1
NYLON COUNTER-BLADE + CARBON FIBER	3	1
REDUCTION PULLEY	4	1
NYLON ALUMINIUM TUBE GUARD + CARBON FIBER	5	1
BLADE TIE-ROD	6	1
ALUMINIUM INTERNAL TUBE	7	1
HELIUM SLIDE BAR	8	1
PULLEY Ø 18MM	9	1
ALUMINIUM EXTERNAL TUBE	10	1
GUARD CLOSING WING NUT	11	1
CLAMP	12	1
ALUMINIUM TUBE LOCKING LEVER	13	1
BOLT M8	14	1
SELF-LOCKING NUT M8X1	15	1
GUARD ASSEMBLY SCREW	16	1
CLAMP NUT	17	2
COUNTER-BLADE SCREW	18	1
ALUMINIUM TUBE GUARD SCREW	19	2
ALUMINIUM TUBE GUARD NUTS	20	2
CLAMP SCREWS M6X14	21	1
CLAMP SCREWS M6X25	22	1
EXTERNAL TUBE PLUG	23	1
LOWER GRIP	24	1
BLADE CLOSING LOCK	25	1
CUTTING GRIP	26	1
BLADE TIE-ROD PLUG	27	1
INTERNAL TUBE PLUG	28	1
SLIDE BAR PLUG	29	1
SPRING	30	1
HEAD CORD	31	1
ALUMINIUM TUBE CORD	32	1
HEAD CLOSING WING NUT	33	1

Fig 1 - Exploded diagram



3 USE AND MAINTENANCE

Before using the HELIUM pruner:

The shears are closed by an external string and activated by a sliding grip placed on the tube which, through a series of pulleys, generates the cutting motion.

- Make sure the equipment is intact and no component is missing.
- Remove the plastic bag from the blade.
- Open the locking lever (Fig. 1 n.13), adjust rod's length depending on the height of the branch to be cut and tighten again the lever in the closing position.
- Unscrew the guard closing wing nut (Fig. 1 n.11) rotate the cutting head according to need.
- Screw back the closing wing nut up to the limit indicated on the guard aluminum tube (Fig. 1 n. 5).
- Perform a closing blank test of the shears in order to check the components' (cords, grip and pulleys) smooth sliding.

N.B: if the cut occurs near roadways or in places subject to vehicles transit (ex: branches that fall on the road) **mark the intervention area and wear a high-visibility vest.**



Figure 2 – Adjust rod's length



Figure 3 – Adjust the shears tilt

While using the pruner

- Cast away any people/animals present.
- To cut, simply put the knife on the branch to be cut and pull the cutting grip (Fig. 1 n. 26) down, while holding with the other hand the lower grip (Fig. 1 n. 24) (as in Fig. 5).
- After use, place the pruner in a plastic bag to protect the blade.



Figure 4 – Carry out a blank test

ATTENTION!
Wear personal protective equipment PPE (cut-resistant gloves, safety shoes, helmet and goggles).

ATTENTION!
Do not use the pruner if people/animals are present in the cutting area. Send away the people/ animals from the falling trajectory of the branch.

ATTENTION!
The shears blades are sharp. Do not touch.

ATTENTION!
The Customer must follow these instructions; otherwise we will not guarantee the continuity regarding equipment's functioning.

ATTENTION!
Do not use the equipment if the conditions do not guarantee a safe operation. If it's necessary to work at height, use stable means of access (baskets, stagings, etc.)

ATTENTION!
Do not use the pruner near power cables under voltage



Figure 5 – Put the shears on the branch

Maintenance

The equipment does not require particular maintenance interventions. Periodically check the conditions:

- of the shears (lubricate it periodically in correspondence with movements);
- of the cords;
- of the grip;
- the proper tightening of nuts and screws (or in case of any accidental lack: restore them).

String recovery instructions after replacing equipment parts

For changing or restoring strings after replacing the internal parts, proceed as follows.

VIDEO AVAILABLE ON YOUTUBE

See: HELIUM CUTTING HEAD CORD REPLACEMENT - YOUTUBE
HELIUM ALUMINIUM TUBE CORD REPLACEMENT - YOUTUBE

CUTTING HEAD CORD REPLACEMENT:

Once you have the cutting head cord kit consisting of: reduction pulley, blade tie rod, blade tire-rod plug and cord (position Fig. 1 n. 4-6-27-31) proceed as follows:

note: the numbers written in brackets refer to the particular number in Fig.1 page. 15

– pass the rope inside the aluminum tube guard (5) and inside the slide bar (8) as in the side figure;
– make a double simple knot and leave about 1cm of cord after the knot;



The double overhand knot is the one that provides the two passages of the head within the buttonhole.

A rap the cord around the reduction pulley (4) in counterclockwise direction and insert it inside the aluminum tube guard (5);

B make sure the slide bar (8) fits inside the guard (5) holding it in the right position (by the two ribs – see picture below) in order to place it inside the aluminum tube (7);

C pass the blade tire-rod (6) inside the counter-blade guard (3);
make sure the cord passes over the small wheel of the reduction pulley as in the side picture (**D**);
couple and close the two guards (3+5) with the proper screw (16) and the wing nut with the nut (11-33);

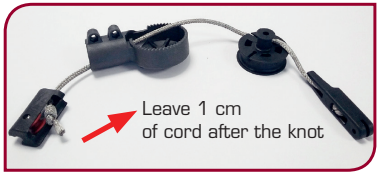
After closing the two guards with a screw, a nut and a wing nut, proceed as follows:

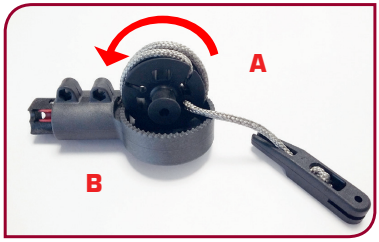
– assemble the spring (30) with the blade (2) and secure the blade on the steel counter-blade (1) with the proper nut and bolt (14-15);
– screw the nut (15) to lock the blade into a position as closed as possible (**E**) to bring the hole close to where the plug will be inserted (27) to the tie-rod blade (6) (**F**)

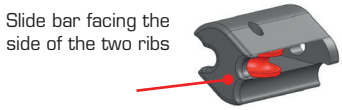
To ease the operation we recommend you to rotate the aluminum tube guard (5) as in the side image (**G**);

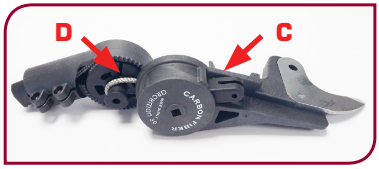
– insert the tire-rod blade plug (27) by using a hammer;
– loosen the nut (15) just enough so that the blade (2) easily opens and closes;
– at this point reassemble the cutting head on the aluminum grip (7);

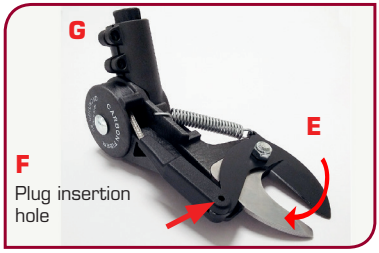
FOR MORE DETAILED INFORMATION WE RECCOMEND YOU TO VIEW THE VIDEOS AVAILABLE ON YOUTUBE (Helium cutting head cord replacement)













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